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Social Networking Basic Web Functionality

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Abstract: A report on the delivered prototype of the Elder-Spaces web portal.

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Table of Contents

Table of Contents.....	3
List of Tables.....	5
List of Figures	6
1. Executive Summary	7
1. Introduction	8
1.1 Overview	8
1.2 Relation with other tasks and work packages	8
2. Overview of Elder-Spaces Functionality.....	9
2.1 Header	9
2.2 Main Page and Side Navigation Bar	10
2.3 Login Page	11
2.4 Registration Page	12
2.5 Search Result page	13
2.6 User Profile	14
2.6.1 Overview	14
2.6.2 Differentiations based on viewer's role	16
2.7 Friends.....	17
2.7.1 Overview	17
2.7.2 Differentiations based on viewer's role	18
2.8 Activities/Feed	20
2.8.1 Overview	20
2.8.2 Differentiations based on viewer's role	21
2.9 Notifications.....	21
2.9.1 Overview	21
2.10 Messages.....	22
2.10.1 Overview	22
2.11 Albums and Photos	24
2.11.1 Overview	24
2.11.2 Differentiations based on viewer's role	25
2.12 Groups.....	28
2.12.1 Overview	28
2.12.2 Differentiations based on viewer's role	29
2.13 Events	30
2.13.1 Overview	30

2.13.2 Differentiations based on viewer's role	31
2.14 Footer	32
3. Technical Overview.....	33
3.1 Implementation Overview	33
3.2 Source Code	34
3.3 Lightbox implementation	38
4. Conclusions	39

List of Tables

Table 1 – Header pages and functionality	9
Table 2 – Main and side bar navigation pages and functionality	10
Table 3 – Login pages and functionality	11
Table 4 – Registration pages and functionality	12
Table 5 – Search pages and functionality	13
Table 6 – Profile pages and functionality	15
Table 7 – Profile Information based on viewer's role	16
Table 8 – Profile user actions based on viewer's role	17
Table 9 – Friends pages and functionality	18
Table 10 – Friends Information based on viewer's role	19
Table 11 – Friends user actions based on viewer's role	19
Table 12 – Activities/Feed pages and functionality	21
Table 13 – Activity/Feed Information based on viewer's role	21
Table 14 – Messages pages and functionality	22
Table 15 – Album and photos pages and functionality	24
Table 16 – Album Information based on viewer's role	26
Table 17 – Album user actions based on viewer's role	26
Table 18 – Groups pages and functionality	28
Table 19 – Groups Information based on viewer's role	29
Table 20 – Groups actions based on viewer's role	29
Table 21 – Events pages and functionality	30
Table 22 – Groups Information based on viewer's role	31
Table 23 – Groups actions based on viewer's role	31
Table 24 – Footer pages and functionality	32
Table 25 – Summary table with component's locations	34
Table 26 – Web interfaces files	34
Table 27 – Controller files and provided functionality	36
Table 28 – Files of the Lightbox-implementation	38

List of Figures

Figure 1: Header – Implemented pages.....	9
Figure 2: Main and side bar navigation – Implemented pages.....	10
Figure 3: Login – Implemented pages.....	11
Figure 4: Registration – Implemented pages.....	12
Figure 5: Profile functionality – Implemented pages	14
Figure 6: Friends functionality – Implemented pages.....	17
Figure 7: Friends functionality – Implemented pages.....	20
Figure 8: Notifications functionality – Participating pages	22
Figure 9: Friends functionality – Implemented pages.....	22
Figure 10: Friends functionality – Implemented pages.....	24
Figure 11: Groups functionality – Implemented pages	28
Figure 12: Events functionality – Implemented pages.....	30
Figure 13: Footer functionality – Implemented pages	32
Figure 14: Call servicing sequence	33

1.Executive Summary

Deliverable D4.1 accompanies the prototype implementation of the Elder-Spaces Web Portal.

This deliverable summarizes the delivered functionality in the platform. In order to avoid duplicating information already presented in D2.2 and D2.3, the emphasis is on the description of the web-pages that were implemented and their selected functionality. Furthermore, the deliverable describes in more detail the differences in content and available user actions per page, depending on the privacy settings that users set and the relation between the viewer and the user info displayed. Finally, the deliverable provides the list of the changes and deviations from the initial design that may have occurred and supplies the reasoning behind these changes.

The second part of the deliverable is focused on the presentation of:

- the basic layered layout of the implementation
- the different programming components used and how they interact with each other
- a complete listing of these components and their functions as an index to the actual code that is referenced

The code of the site is maintained in zip format and we provide here a link to the repository.

The actual implementation is available in www.elderspaces.com.

1. Introduction

1.1 Overview

This deliverable summarizes the work performed under task T4.1. The primary output of this task was the implementation of all the basic functionalities described in WP2.

The implementation takes into consideration also the relevant inputs resulting from the early users' tests, which implied some deviations and changes from the basic functionalities specifications described in WP2.

Therefore, in this document, also all the possible fine-tunings and deviations are reported.

Chapter 2 presents a **summary of the implemented** functionality, providing emphasis on the perspective of the user. Specifically, what is displayed and what functionality is available to users.

Chapter 3 layouts more **technical information**, related to the different components used in implementation and how they interact with each other. There is also a list of the files containing the actual functionality, along with an index as to the provided functionality. This easily allows a third party to review and understand the code that was developed.

1.2 Relation with other tasks and work packages

Task 4.1 is the implementation of the functionality defined in WP2 – which was derived from the user requirements in WP1. This “basic” functionality is the foundation of the Elder-Spaces platform. Based on this, other more complex applications are going to be developed (i.e. Travel Memories) that combine custom application code and existing basic functionality.

Task 4.1 leads to WP5, the integration of all services and functionalities to a common platform. The information regarding the actual view and abilities of each module, are used in D5.2 in order to build the test cases and validate the system.

Further to that, this implementation is the foundation for building the actual web site that users are going to test and evaluate in WP6.

2. Overview of Elder-Spaces Functionality

The design for all of the Elder-Spaces functionality was presented in deliverable D2.3. Here, an overview of the actual implementation, emphasizing on any deviations from the original specs is presented.

2.1 Header

In the following diagram, the functionalities of the Header and the pages linked to the Header are presented.



Figure 1: Header – Implemented pages

Table 1 – Header pages and functionality

A/A	Functionality	Elements	Target page
1	Main Page navigation	<ul style="list-style-type: none"> Elder-Spaces icon 	Main Page
2	Search	<ul style="list-style-type: none"> Free text search field Search button 	<ul style="list-style-type: none"> N/A Search Result page
3	Logged in user	<ul style="list-style-type: none"> Profile thumbnail picture User name 	<ul style="list-style-type: none"> My Profile page My Profile page
4	Log out	<ul style="list-style-type: none"> Log out button 	Login page
5	Change contrast	<ul style="list-style-type: none"> Change contrast link 	N/A
6	Resize text	<ul style="list-style-type: none"> Small letter Big letter 	N/A
7	Feedback	<ul style="list-style-type: none"> Feedback link 	<ul style="list-style-type: none"> User feedback form
8	Help	<ul style="list-style-type: none"> Help link 	<ul style="list-style-type: none"> Help page
9	Breadcrumb	<ul style="list-style-type: none"> Breadcrumb elements 	<ul style="list-style-type: none"> selected page

Differences from initial specs:

- The breadcrumb was placed to an additional line to earn extra space and provide useful breadcrumb functionality in any language without design problems.
- The Resize text functionality was implemented in a limitless way: users can reduce

text size down to 80% of the base size and enlarge it as many levels as they want, not just 3 predefined levels.

- A Feedback link was placed on the Header in order to provide an opportunity for our test users to give some feedback about the site easily through an online questionnaire. The questionnaire is available in English, Greek and Hungarian languages and the Feedback link automatically opens the proper one based on the user's current language setting.

2.2 Main Page and Side Navigation Bar

In the following diagram, the functionalities linked to the Main Page and the Side Navigation Bar are described.

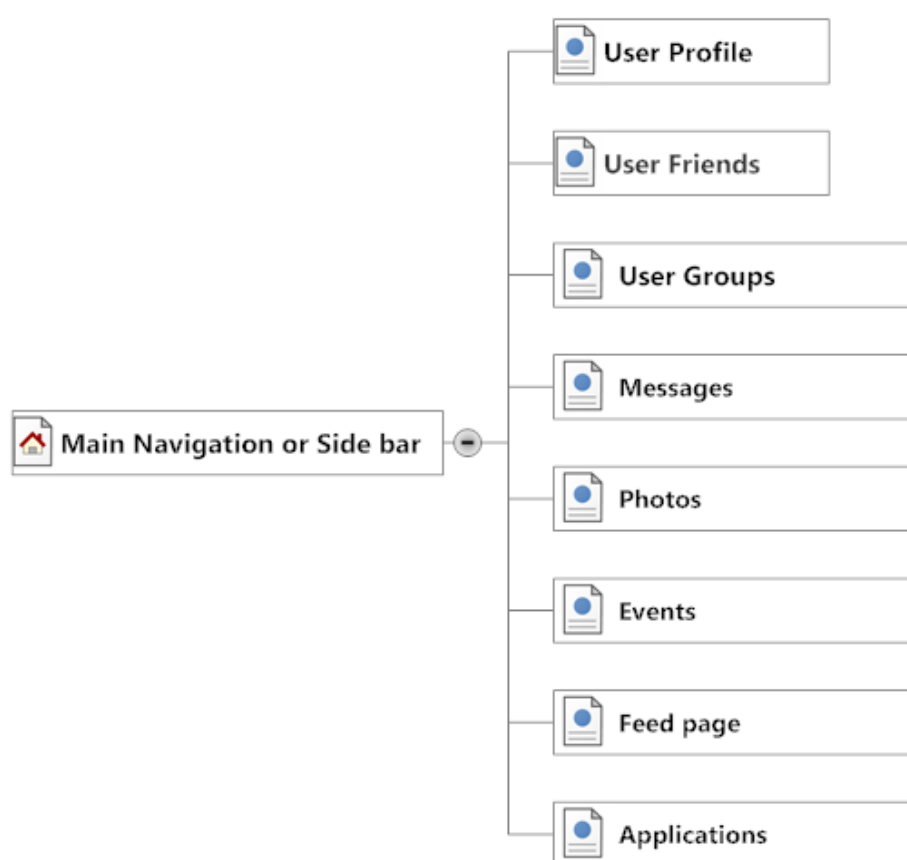


Figure 2: Main and side bar navigation – Implemented pages

Table 2 – Main and side bar navigation pages and functionality

A/A	Main Page and Side Navigation Bar elements	Target page
1	Profile button	My Profile page
2	Friends button	Friends and Others page
3	Groups button	Groups page
4	Messages button	Inbox page
5	Photos button	Friends' Fresh Photos page
6	Events button	Events page

A/A	Main Page and Side Navigation Bar elements	Target page
7	Feed button	Feed page
8	Applications button	Applications page
9	Main Page button	Main Page
10	Activities column » View more feed button	Activities/Feed page
11	Activities column » profile thumbnail	Profile page of the selected user

Differences from initial specs:

- The whole Side Navigation Bar was placed on the Main Page as well, not only on the subpages. At the design phase it has been thought that the whole Side Navigation Bar would have been redundant on the Main Page. On the contrary, during the user tests it turned out that the presence of the whole side navigation bar on the Main page helps the users to understand the main navigation elements of Elder-Spaces site at the first sight. The icons and function names are the same on the main big navigation buttons and the smaller side navigation buttons, so it's easy to match them and deduce that they navigate to the same page. When the user navigates away from the Main Page, the Side Navigation Bar is still available on every page to provide an always steady part of the screen and an easy and quick navigation through the whole site.

2.3 Login Page

In the following diagram, the functionalities provided on the Login page are described.

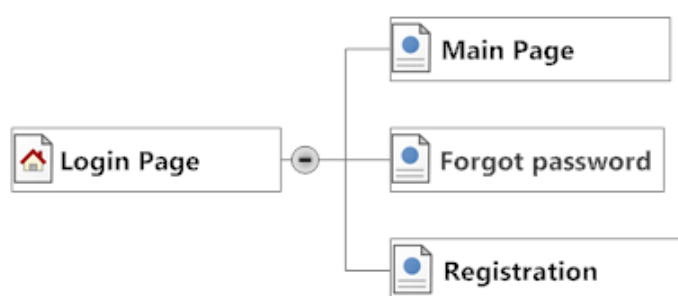


Figure 3: Login – Implemented pages

Table 3 – Login pages and functionality

A/A	Functionality	Elements	Target page
1	Select language	<ul style="list-style-type: none"> Select language flag icons 	N/A
2	Log in to Elder-Spaces	<ul style="list-style-type: none"> E-mail address free text field Password protected free text field "Keep me logged in" checkbox Log in button 	Main Page
3	I can't access my account	<ul style="list-style-type: none"> "I can't access my account" link 	Forgot My Password page
4	Help	<ul style="list-style-type: none"> Help link 	Help page
5	Join to Elder-Spaces	<ul style="list-style-type: none"> "Join to Elder-Spaces" button 	Registration page

Differences from initial specs:

- The language selection functionality was placed on the Login page as well.. The default language of the Login page is calculated from the viewer's IP address at the user's first visit. If the user sets a different language, the Login page will remember the selected value on the next visit as well.
- The order of the sign up and log in parts was changed: the log in part was moved on the top. It's more accessible for the already users and the red sign up button is still conspicuous on the screen for the new visitors.

2.4 Registration Page

In the following diagram, the functionalities provided on the Registration page are described.

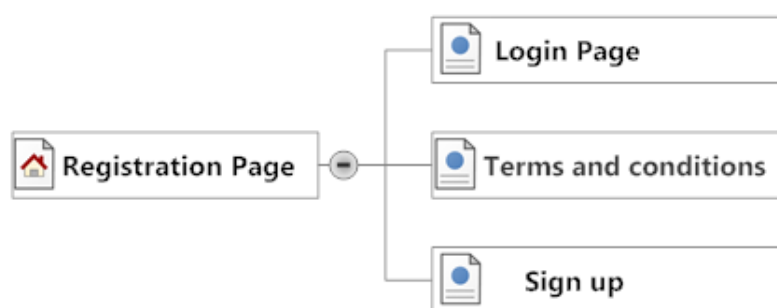


Figure 4: Registration – Implemented pages

Table 4 – Registration pages and functionality

A/A	Functionality	Elements	Target page
1	Back to Login	<ul style="list-style-type: none"> Cancel button 	Login page
2	Fill the Registration Form	<ul style="list-style-type: none"> First name free text input field Last name free text input field Country select City free text input field Gender option (Female or Male) E-mail address free text field Password protected free text field Password again protected free text field 	N/A
3	Accept Terms and Conditions	<ul style="list-style-type: none"> Accept Terms and Conditions checkbox Terms and Conditions link 	<ul style="list-style-type: none"> N/A Terms and Conditions page
4	Sign Up	<ul style="list-style-type: none"> Sign Up button 	Sign Up Feedback page

Differences from initial specs:

- The Country field was implemented as an "option menu" instead of a free text field. Once it's easier to select the user's country on the selected language. Twice we need to convert the selected country to an existing country code in the system.

- The Cancel button was placed on the top of the form, because it's easier and faster to navigate back for users who clicked on the Sign Up button accidentally, but it's still accessible on the same screen for users who change their mind during registration.

2.5 Search Result page

Search Results page redirects dynamically, based on the results that were returned by the user call. Additional navigation is performed by side navigation bar, header and footer.

Table 5 – Search pages and functionality

A/A	Functionality	Elements	Target page
1	Search	<ul style="list-style-type: none"> • Free text Search field • Search button 	<ul style="list-style-type: none"> • N/A • Search Result page
2	View search results	<ul style="list-style-type: none"> • Person result cards • Event result cards • Group result cards 	<ul style="list-style-type: none"> • Profile page • Event page • Group page
3	Navigate between search results	<ul style="list-style-type: none"> • Pagination bar 	<ul style="list-style-type: none"> • Search Result page
4	Select a Person result	<ul style="list-style-type: none"> • Thumbnail picture • Basic user data • View more button (in case of not friends) • Send message button (in case of friends) 	<ul style="list-style-type: none"> • Profile page • N/A • Profile page • Write Message page
5	Select an Event result	<ul style="list-style-type: none"> • Event thumbnail picture • Basic event data • View more button 	<ul style="list-style-type: none"> • Event page • N/A • Event page
6	Select a Group result	<ul style="list-style-type: none"> • Group thumbnail picture • Basic group data • View more button 	<ul style="list-style-type: none"> • Group page • N/A • Group page

Differences from initial specs:

- Another search field and button were placed on the top of the search results (besides the search functionality in the header) with the default value of the previously searched text, because it's more clear for the users what they searched for and that they are on a search result page seeing the search results of the given text and they can do another search if they want.
- The different types of results (Person / Event / Group) were displayed in separated topics below each other without sub navigation needed. Users haven't found easily the switcher from one result type to another, so they could have the feeling that only the topic "people" could be searched on the site. So it was decided for the sub navigation switchers and all kind of results were placed in separated topics one below each other.

2.6 User Profile

2.6.1 Overview

The following diagram presents the pages created for the User Profile functionality.

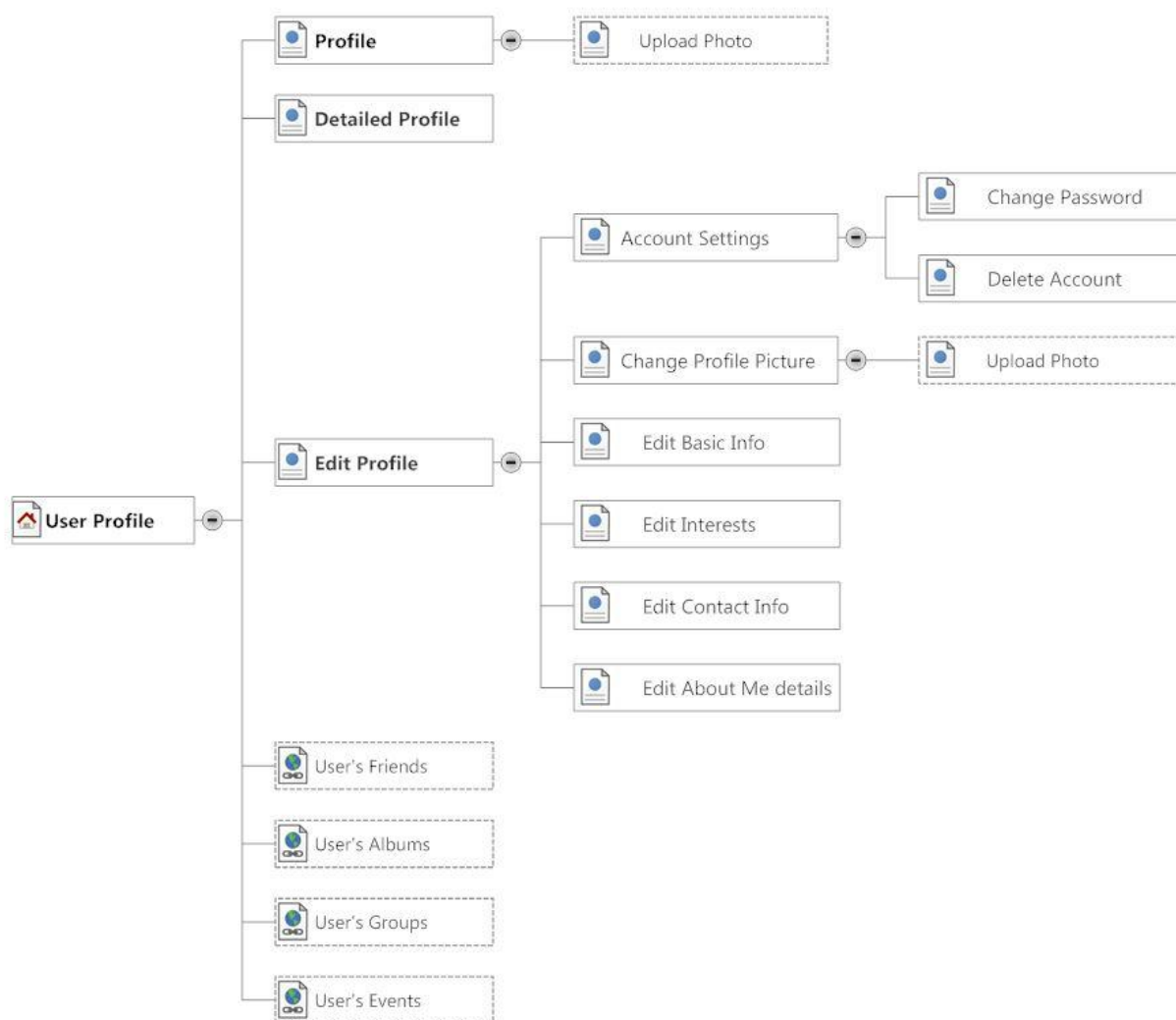


Figure 5: Profile functionality – Implemented pages

Table 6 – Profile pages and functionality

A/A	Page	Functionality	Links
1	Main Profile Page	<ul style="list-style-type: none"> Show Summary of user info Show User Activities and comments Post Comment (optional: add photo - see #5) Delete activity or comment View more activities or comments 	* View detailed profile
2	Detailed Profile	<ul style="list-style-type: none"> Show Complete user info 	
3	Edit Profile	<ul style="list-style-type: none"> Show Complete user info Edit User info Change profile picture (see #5) Change account settings 	<ul style="list-style-type: none"> Upload photo Account Settings Edit Basic info Edit Interests Edit About Me section Edit Contact Info
4	Change Profile Picture	<ul style="list-style-type: none"> View/chose from previous profile photos Upload a new photo 	<ul style="list-style-type: none"> Upload photo
5	Upload photo	<ul style="list-style-type: none"> Browse for a photo Add title, description (optional) Upload / Cancel 	
6	Account Settings	<ul style="list-style-type: none"> Change Password Delete profile 	
7	Edit segment (4 pages)	<ul style="list-style-type: none"> Edit user information segment 	
8	User's Friends	Redirect to user's friends page	
9	User's Albums	Redirect to user's Albums page	
10	User's Groups	Redirect to user's Groups page	
11	User's Events	Redirect to user's Events page	

Differences from initial specs:

- **Main Profile Page.** The amount of information that is viewed in the profile summary was reduced. The reason is that this information will be publically disclosed to all users and the test users raised privacy concerns on this issue.
- **Detailed Profile/Edit profile.** The amount of information that the user has to maintain was reduced. Only the information that provided some added benefit to the goals of the social network was maintained, such as the information focused on the user's current status and emphasizing on his/hers interests. Specifically, 4 segment of information only were kept. The reason for this reduction is that during the testing activity the users considered too tiresome and inquisitive the information they were asked to maintain.
- **Edit segments.** These pages need to be implemented using lightboxes. The number of the lightboxes was reduced in the site in order to make it more accessible to users.

2.6.2 Differentiations based on viewer's role

In this section, we summarize the differences that each page may have, depending on who is the viewer and his/her relationship to the person whose profile information is displayed. There are two types of differentiation:

- a change in the information displayed to the viewer
- a difference to the actions the viewer can perform

Table 7 below depicts the information displayed on each pages according to the viewer's role. Three roles/case are shown, whether the *viewer* is looking at his/her own profile (*Self*), at one of his/her friend's (*Friend*) or at someone's whom he/she has no relation with (*No Relation*).

For each case, the information displayed in each page (main profile, detailed profile, Edit profile, etc.) is indicated. In the third case (*No Relation*), two different situations (*Not Set and Set*) are possible with relation to the privacy level and the pages information is shown accordingly.

Table 7 – Profile Information based on viewer's role

	Information Presented			
Viewer	Self	Friend	No Relation	
Privacy level	Any	Any	Not Set	Set
Main Profile Page	<ul style="list-style-type: none"> • Summary • Posts 	<ul style="list-style-type: none"> • Summary • Posts 	<ul style="list-style-type: none"> • Summary • Posts 	<ul style="list-style-type: none"> • Summary
Detailed Profile	Full details	Full details	Full details	N/A
Edit Profile	Full details	N/A	N/A	N/A
My Friends	View all	View all	View all	N/A
My Photo Albums	View all	View all	View all	N/A
My Groups	View all	Groups appear	Groups appear	N/A
My Events	View all	Events appear	Events appear	N/A

Table 8 below depicts the actions the users can perform on each pages according to the viewer's role. Three roles/case are shown, whether the *viewer* is looking at his/her own profile (*Self*), at one of his/her friend's (*Friend*) or at someone's whom he/she has no relation with (*No Relation*).

For each case, the actions available to the user (main profile, detailed profile, Edit profile, etc.) are indicated. In the third case (*No Relation*) two different situations are possible (*Not Set and Set*) with relation to the privacy level and the possible actions shown accordingly.

When profile privacy is set, people who are not friends with the person, only see limited information about him/her and no information about his/hers relations and activities.

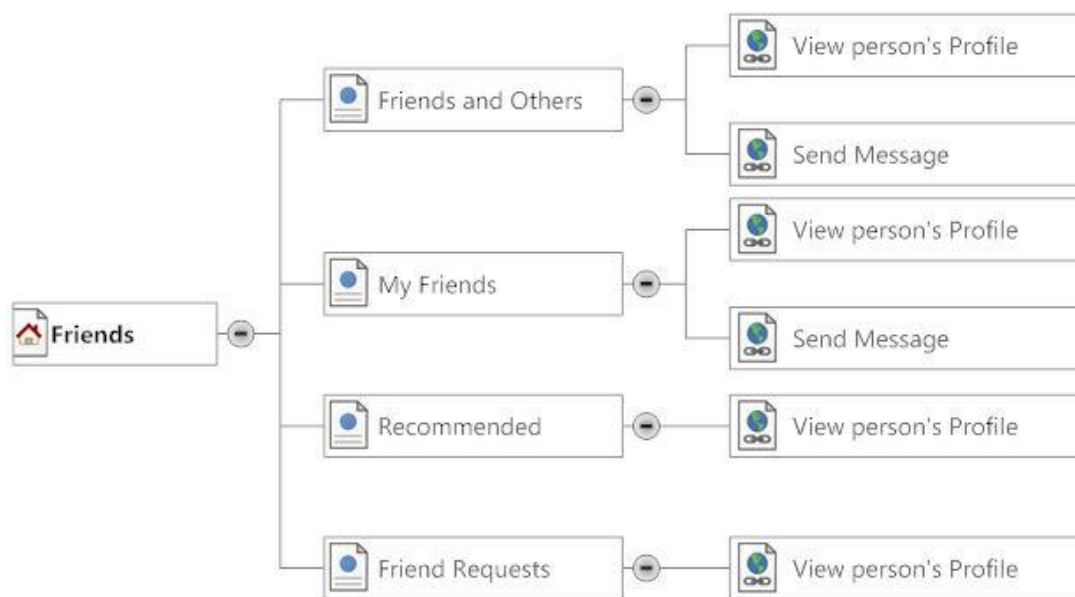
Table 8 – Profile user actions based on viewer's role

	Available Actions			
Viewer	Self	Friend	No Relation	
Privacy level	Any	Any	Not Set	Set
Main Profile Page	<ul style="list-style-type: none"> View Details Add post Add photo 	<ul style="list-style-type: none"> View Details Remove Friend Send Message 	<ul style="list-style-type: none"> View details Send Friend Invitation Send Message 	<ul style="list-style-type: none"> View details Send Friend Invitation Send Message
Detailed Profile	-	-	-	-
Edit Profile	Complete functionality	N/A	N/A	N/A
My Friends	<ul style="list-style-type: none"> View friend profile Send Message 	<ul style="list-style-type: none"> View friend profile Send Message 	<ul style="list-style-type: none"> View friend profile Send Message 	N/A
My Photo Albums	Complete functionality	View	View (depends of album privacy)	N/A
My Groups	Complete functionality	Depends on group privacy	Depends on group privacy	N/A
My Events	Complete functionality	Depends on group privacy	Depends on group privacy	N/A

2.7 Friends

2.7.1 Overview

The following diagram shows the pages created for the User Profile functionality.

**Figure 6: Friends functionality – Implemented pages**

The following tables extrapolate the information and functionality of each page

Table 9 – Friends pages and functionality

A/A	Page	Functionality	Links
1	Friends and Others	<ul style="list-style-type: none"> Show list of friends (5 records) Show list of recommended friends (5 records) Send Message to friends View Profile (friends and recommended) View more Friends View more recommended friends 	<ul style="list-style-type: none"> View Friends View recommended friends
2	My Friends	<ul style="list-style-type: none"> Show list of friends (10 records per page) Use pagination to see more friends View friend's profile Send message 	
3	Recommended	<ul style="list-style-type: none"> Show list of recommended friends (10 records per page) View person's profile Send friend request 	
4	Friend Requests	<ul style="list-style-type: none"> View Notification (number of pending friend requests) View a list of people who have sent friend requests (10 per page) Accept friend request Ignore friend request View user's profile 	

Differences from initial specs:

- Pagination was removed from the bottom pages as the layout is designed in order to avoid scrolling.
- Some minor changes to the information displayed on the friend's summary.

Note: Friends Requests page is one of the cases where notifications are introduced. A number is displayed to indicate the total requests pending.

2.7.2 Differentiations based on viewer's role

This section summarizes the differences that each page may have, depending on who is the viewer and his/hers relationship to the person whose profile information is displayed. There are two types of differentiation:

- a change in the information displayed to the viewer
- a difference to the actions the viewer can perform

Table 10 below depicts the information displayed on each friend's related page according to the viewer's role. Three roles/cases are shown, whether the *viewer* is looking at his/her own friends information (*Self*), at his/her friend's (*Friend*) or at someone's whom he/she has no relation with (*No Relation*).

For each case, the information displayed in each page is indicated. In the third case (*No Relation*), two different situations (*Not Set and Set*) are possible with relation to the privacy level and the pages information is shown accordingly.

Table 10 – Friends Information based on viewer's role

	Information Presented			
Viewer	Self	Friend	No Relation	
Privacy level	Any	Any	Not Set	Set
Friends and Others	<ul style="list-style-type: none"> Friend's list Recommended list 	N/A	N/A	N/A
My Friends	<ul style="list-style-type: none"> Friend's list 	<ul style="list-style-type: none"> Friend's list 	<ul style="list-style-type: none"> Friends list 	Block all content
Recommended	<ul style="list-style-type: none"> Recommended list 	N/A	N/A	N/A
Friend Requests	<ul style="list-style-type: none"> View requests 	N/A	N/A	N/A

Table 11 below depicts the actions the users can perform on each Friends related page according to the viewer's role. Three roles/case are shown, whether the *viewer* is looking at his/her own friends information (*Self*), at his/her friend's (*Friend*) or at someone's whom he/she has no relation with (*No Relation*).

For each case, the actions available to the user are indicated. In the third case (*No Relation*) two different situations are possible (*Not Set and Set*) with relation to the privacy level and the possible actions shown accordingly.

When profile privacy is set, people who are not friends with the person, do not get to see information on any of the person's friends.

Table 11 – Friends user actions based on viewer's role

	Available Actions			
Viewer	Self	Friend	No Relation	
Privacy level	Any	Any	Not Set	Set
Friends and Others	<ul style="list-style-type: none"> View Profile Send Message Send Friend request Got to My Friends Go to Recommended friends 	N/A	N/A	N/A
My Friends	<ul style="list-style-type: none"> View Profile Send Message Use pagination 	<ul style="list-style-type: none"> View Profile Send Message Return to my profile¹ 	<ul style="list-style-type: none"> View Profile Send Message 	Block all content

¹ In the case when the viewer (@me) is seeing in his/hers friend's "Friend list" his/hers profile

	Available Actions			
Viewer	Self	Friend	No Relation	
Privacy level	Any	Any	Not Set	Set
Recommended	<ul style="list-style-type: none"> View Profile Send Friend request 	N/A	N/A	N/A
Friend Requests	<ul style="list-style-type: none"> View Friend requests Accept request Ignore request View Profile 	N/A	N/A	N/A

Activities/Feed

2.8.1 Overview

Activities are displayed in three different sections in the platform; in a vertical side bar on the main page, in the profile and in the activities feed. In all cases, we present the same information. The functionality allows for presenting both activities and user comments. In order to be relevant and reduce the platform workload, we present the activities and comments that were made in the last 30 days.

The following diagram presents the pages which implement or include this functionality.



Figure 7: Friends functionality – Implemented pages

Comments may be inserted by the user with or without a photo. Activities are generated by some specific user actions:

- Updating a profile photo
- Accepting a friend request
- Creating/joining a Group
- Creating/joining an Event

Table 12 – Activities/Feed pages and functionality

A/A	Page	Functionality	Links
1	Main menu	<ul style="list-style-type: none"> Show list of activities (7 records) 	<ul style="list-style-type: none"> Feed page
2	Profile	<ul style="list-style-type: none"> Show list of activities (10 records) Use “View More” to see more entries Post a message with or without a photo Upload a photo 	<ul style="list-style-type: none"> Upload photo
3	Feed	<ul style="list-style-type: none"> Show list of activities (10 records) Use “View More” to see more entries Post a message with or without a photo Upload a photo 	<ul style="list-style-type: none"> Upload photo

2.8.2 Differentiations based on viewer’s role

The only page where differentiation is possible is that in the user’s profile. The other pages are accessible only to the viewer (@me).

Table 13 – Activity/Feed Information based on viewer’s role

	Information Presented			
Viewer	Self	Friend	No Relation	
Privacy level	Any	Any	Not Set	Set
Main menu	<ul style="list-style-type: none"> View your activities /comments View friends activities/comments 	<ul style="list-style-type: none"> View your activities /comments View friends activities/comments 	N/A	N/A
Profile	<ul style="list-style-type: none"> View your activities /comments View friends activities /comments 	<ul style="list-style-type: none"> View your activities /comments View friends activities /comments 	<ul style="list-style-type: none"> View the other persons’ activities /comments 	Block all content
Feed	<ul style="list-style-type: none"> View your activities /comments View friends activities /comments 	<ul style="list-style-type: none"> View your activities/comments View friends activities /comments 	N/A	N/A

2.9 Notifications

2.9.1 Overview

The diagram that follows indicates the pages where notifications are shown. As described in D2.3, notifications are an internal functionality of the platform. Users cannot deliberately create a notification, they are generated by specific actions (send friend request, send group or event invitation and receive new messages)

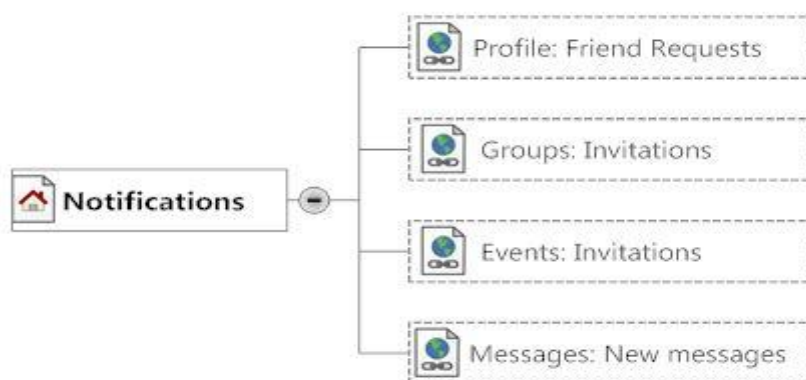


Figure 8: Notifications functionality – Participating pages

There is no functionality related to notifications they are used only to present information.

2.10 Messages

2.10.1 Overview

The following diagram presents the pages created to implement the messages functionality.



Figure 9: Friends functionality – Implemented pages

Table 14 – Messages pages and functionality

A/A	Page	Functionality	Links
1	Inbox	<ul style="list-style-type: none"> Show all received messages (mark unread with pink) Read a message by clicking on one 	
2	Sent Messages	<ul style="list-style-type: none"> Show all sent messages 	

A/A	Page	Functionality	Links
3	Write Message (Wizard Step 1)	<ul style="list-style-type: none"> Show user's friends to choose recipients from 	<ul style="list-style-type: none"> Write message standard Mode Inbox Wizard Step 2
4	Write Message (Wizard Step 2)	<ul style="list-style-type: none"> Show the subject of the message 	<ul style="list-style-type: none"> Wizard Step 1 Wizard Step 3
5	Write Message (Wizard Step 3)	<ul style="list-style-type: none"> Show the main body of the message 	<ul style="list-style-type: none"> Wizard Step 2 Wizard Step 4
6	Write Message (Wizard Step 4)	<ul style="list-style-type: none"> Show a preview of the completed message 	<ul style="list-style-type: none"> Wizard Step 3
7	Write Message (Standard Mode)	<ul style="list-style-type: none"> Show the complete message boxes (recipients, Subject, Message) 	
8	Read Message	<ul style="list-style-type: none"> Show the message header (sender, recipients, date sent) an the subject/body of message Delete the message Forward the message Reply to the sender 	<ul style="list-style-type: none"> Write Message (Standard mode)
9	Reply Message	<ul style="list-style-type: none"> Open write message page Preselect only the sender of the original message as recipient Preselect the subject of the new message to be the reply to the original (editable) Send message Discard message 	
10	Forward Message	<ul style="list-style-type: none"> Open write message page Present all the friends as potential recipients Preselect the subject of the new message to be the [FW] to the original (editable) Send message Discard message 	

There are no differentiations on this functionality based on the viewer's role, as it is available only to the person who is logged in at the time. Other people do not get to see the owner's messages, unless they are the recipients.

Reply and forward functionalities are instantiations of the send message standard mode, with the difference that some parts of the message are filled out in advance.

The selection method for recipients was changed from the original specs. This was done to be aligned with the Groups and Events functionality, so that selecting from friends have a common way throughout the site. Recipients are selected by clicking on the list of all of the user's friends. Unselecting is done in the same way.

2.11 Albums and Photos

2.11.1 Overview

The following diagram shows the pages which implement or include this functionality.

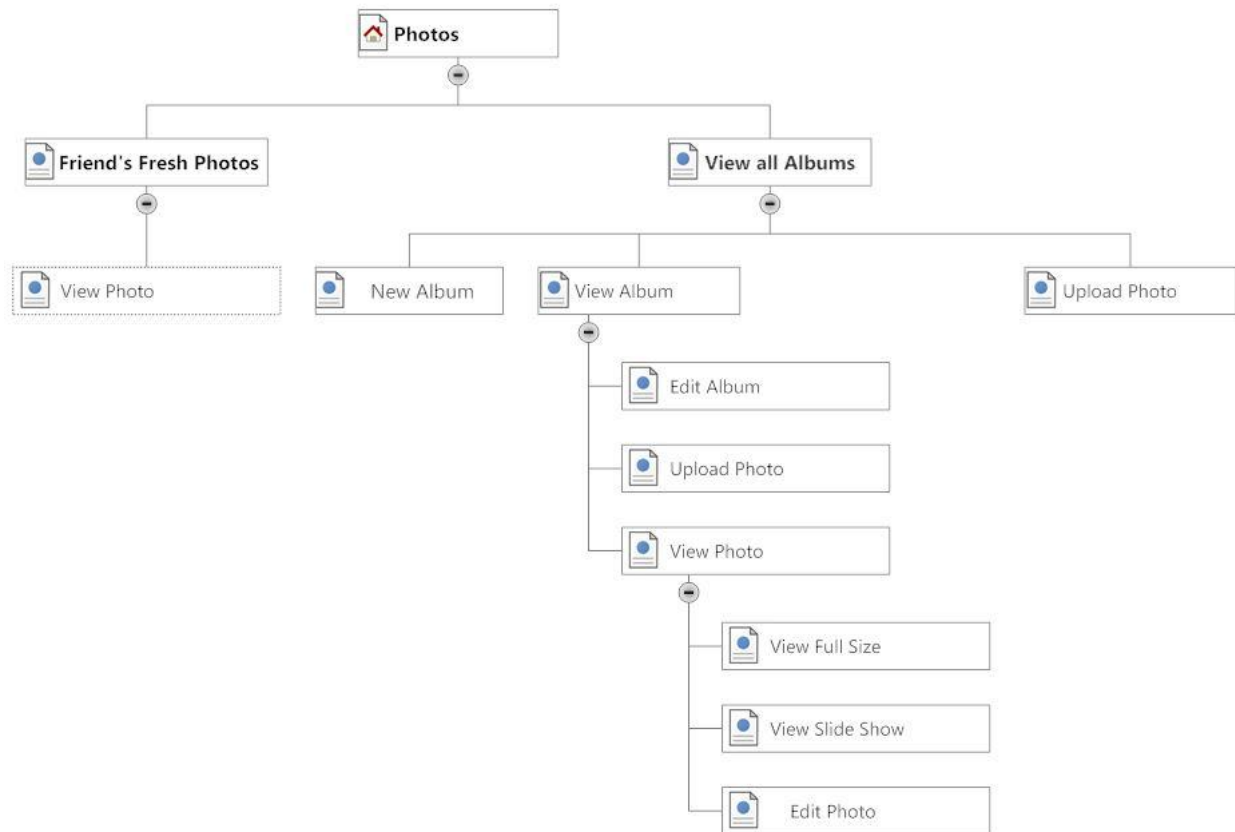


Figure 10: Friends functionality – Implemented pages

Table 15 – Album and photos pages and functionality

A/A	Page	Functionality	Links
1	Friend's Fresh Photos	<ul style="list-style-type: none"> Show a random selection of 9 new photos that the user's friends have uploaded 	<ul style="list-style-type: none"> View Photo
2	Photo Albums	<ul style="list-style-type: none"> Show all of the user's albums, including the profile album and the shared photo album (which has the photos included in posts) Create new album Upload photo in an existing album 	
3	New Album	<ul style="list-style-type: none"> Write album name Set privacy level (public / friends only) 	
4	View Album	<ul style="list-style-type: none"> Display the name and privacy level of the album Show the photos in an album in sets of 9 photos (include title and number of comments per 	

A/A	Page	Functionality	Links
		photo) <ul style="list-style-type: none"> • Show the album's comments • Allow for posting a comment to the album • Edit album information • Upload photo to the album • Use paging to navigate to the rest of the photos 	
5	Upload Photo	<ul style="list-style-type: none"> • Select existing album to store the photo to • Browse for a photo • Set title (optional) • Set Description (optional) • Upload • Cancel 	
6	Edit Album	<ul style="list-style-type: none"> • Edit album title • Edit album privacy settings • Delete album 	
7	View photo	<ul style="list-style-type: none"> • Display photo • Show photo title and description • Edit photo • Upload photo (in the same album) • View full size (new window) • Start slide show • View comments on the photo • Post a comment • Delete comments 	<ul style="list-style-type: none"> • Back to albums
8	View Full Size	<ul style="list-style-type: none"> • New window which shows the photo in full size 	No links to the site
9	View Slide Show	<ul style="list-style-type: none"> • In a lightbox, show photos and title in the album one by one • Next/previous buttons allow for navigation • X button closes lightbox 	

Differences from initial specs:

- The default album which includes photos and images uploaded in posts and user activities is now available in the list of user albums.
- A limit to the maximum size of photos was set for practical reasons. The maximum size is 4MB.

2.11.2 Differentiations based on viewer's role

There are two sets of privacy at play with regard to photos:

- the album's privacy level (friends only or public)
- the profile's privacy level (Friends only or public)

The profile policy prevails over any other setting. This is why if it is set to friends only, a user who is not related to the person may not see any content related to photos.

Table 16 – Album Information based on viewer's role

	Information Presented			
Viewer	Self	Friend	No Relation	
Privacy level	Any	Any	Not Set	Set
Friend's Fresh Photos	<ul style="list-style-type: none"> View friend's photos 	N/A	N/A	N/A
Photo Albums	<ul style="list-style-type: none"> Show all of the user's albums 	<ul style="list-style-type: none"> Show all of the user's albums 	<ul style="list-style-type: none"> Show all of the user's albums with privacy set to public 	Block all content
New Album	<ul style="list-style-type: none"> Display the page 	N/A	N/A	N/A
View Album	<ul style="list-style-type: none"> Show the photos in the album Show the comments 	<ul style="list-style-type: none"> Show the photos in the album Show the comments 	<ul style="list-style-type: none"> Show the photos in the album (with album privacy set to public) Show the comments (with album privacy set to public) 	Block all content
Upload Photo	<ul style="list-style-type: none"> Show page 	N/A	N/A	N/A
Edit Album	<ul style="list-style-type: none"> Show page 	N/A	N/A	N/A
View photo	<ul style="list-style-type: none"> Show Photo Show comments 	<ul style="list-style-type: none"> Show Photo Show comments 	<ul style="list-style-type: none"> Show the photos in the album (If album privacy set to public) Show the comments (If album privacy set to public) 	Block all content
View Full Size	<ul style="list-style-type: none"> Show Photo 	<ul style="list-style-type: none"> Show Photo 	<ul style="list-style-type: none"> Show Photo comments (If album privacy set to public) 	Block all content
View Slide Show	<ul style="list-style-type: none"> Show Photo 	<ul style="list-style-type: none"> Show Photo 	<ul style="list-style-type: none"> Show Photo comments (If album privacy set to public) 	Block all content

Table 17 – Album user actions based on viewer's role

	Available Actions			
Viewer	Self	Friend	No Relation	
Privacy level	Any	Any	Not Set	Set
Friend's Fresh Photos	<ul style="list-style-type: none"> View friend's photos 	N/A	N/A	N/A
Photo Albums	<ul style="list-style-type: none"> Select one album to view Create new album Upload photo 	<ul style="list-style-type: none"> Select one album to view 	<ul style="list-style-type: none"> Select one album to view (from those with privacy set to public) 	Block all content
New Album	<ul style="list-style-type: none"> Display the page 	N/A	N/A	N/A
View Album	<ul style="list-style-type: none"> Upload photo 	<ul style="list-style-type: none"> Select a photo 	<ul style="list-style-type: none"> Select a photo to 	Block all content

	Available Actions			
Viewer	Self	Friend	No Relation	
Privacy level	Any	Any	Not Set	Set
	<ul style="list-style-type: none"> Post Comment Delete Comment Select a photo to view 	to view <ul style="list-style-type: none"> Post a comment 	view (available/accessible only in albums with privacy set to public) <ul style="list-style-type: none"> Post a comment (available/accessible only in albums with privacy set to public) 	
Upload Photo	All described functionality	N/A	N/A	N/A
Edit Album	All described functionality	N/A	N/A	N/A
View photo	<ul style="list-style-type: none"> Edit photo Upload photo (in the same album) View full size (new window) Start slide show View comments on the photo Post a comment Delete comments 	<ul style="list-style-type: none"> View full size (new window) Start slide show View comments on the photo Post a comment 	<ul style="list-style-type: none"> Show the photo (If album privacy set to public) Show the comments (If album privacy set to public) 	Block all content
View Full Size	<ul style="list-style-type: none"> Show Photo in new window 	<ul style="list-style-type: none"> Show Photo in new window 	<ul style="list-style-type: none"> Show Photo in new window (If album privacy set to public) 	Block all content
View Slide Show	<ul style="list-style-type: none"> Show Photo in lightbox (previous/next/exit functionality) 	<ul style="list-style-type: none"> Show Photo in lightbox (previous/next/exit functionality) 	<ul style="list-style-type: none"> Show Photo in lightbox (previous/next/exit functionality) (If album privacy set to public) 	Block all content

2.12 Groups

2.12.1 Overview

The following diagram shows the pages which implement or include this functionality.



Figure 11: Groups functionality – Implemented pages

Table 18 – Groups pages and functionality

A/A	Page	Functionality	Links
1	Groups	<ul style="list-style-type: none"> Show a random selection of 6 “own” groups that the user created 	<ul style="list-style-type: none"> View all
2	View all groups	<ul style="list-style-type: none"> Show all the user’s groups, both the ones the user created as the ones the user joined 	
2	My groups	<ul style="list-style-type: none"> Show all of the groups of the user: there are two categories: own groups and joined groups 	
3	Recommended	<ul style="list-style-type: none"> Show a list of recommended groups, related to the interests or to the social network of the user. The list contains up to 5 recommended groups. 	
4	Invitations	<ul style="list-style-type: none"> Show a list of groups in which the user has been invited 	
5	Create new	<ul style="list-style-type: none"> Create a new group specifying: <ul style="list-style-type: none"> Name Description Category from a predefined list Photo 	

Differences from initial specs:

- Selecting friends to send an invitation is done by selecting the desired ones from the complete list of his/hers friends, specifically by clicking on the person’s name. Unselecting is done in the same way, by clicking on a selected person.

2.12.2 Differentiations based on viewer's role

This section summarizes the differences that each page may have, depending on the viewer and his/hers relationship to the person whose profile information is displayed. There are two types of differentiation:

- a change in the information displayed to the viewer
- a difference in the actions the viewer can perform

Table 19 – Groups Information based on viewer's role

	Information Presented		
Viewer	Self	No Relation	
Privacy level	Any	Not Set	Set
Main Group Page	<ul style="list-style-type: none"> • Summary Posts 	<ul style="list-style-type: none"> • Summary 	<ul style="list-style-type: none"> • Summary
Group Members	Full details	N/A	N/A

Table 20 – Groups actions based on viewer's role

	Available Actions		
Viewer	Self	No Relation	
Privacy level	Any	Not Set	Set
Main Group Page	<ul style="list-style-type: none"> • Join • Invite friends • Add photo • Post an activity • View Members 	<ul style="list-style-type: none"> • Join 	<ul style="list-style-type: none"> • Join
Group Members	<ul style="list-style-type: none"> • View details • Invite friends 	N/A	N/A

2.13 Events

2.13.1 Overview

The diagram below presents the pages which implement or include this functionality.



Figure 12: Events functionality – Implemented pages

Table 21 – Events pages and functionality

A/A	Page	Functionality	Links
1	Events	<ul style="list-style-type: none"> Show a random selection of 3 events that the user created and 3 upcoming events that the user joined 	<ul style="list-style-type: none"> View all
2	View all events	<ul style="list-style-type: none"> Show all the user's events, both the ones the user created as the ones the user joined 	
2	My events	<ul style="list-style-type: none"> Show all of the events of the user: there are two categories: own events and joined events 	
3	Recommended	<ul style="list-style-type: none"> Show a list of recommended events, related to the interests or to the social network of the user. The list contains up to 5 recommended events. 	
4	Invitations	<ul style="list-style-type: none"> Show a list of events in which the user has been invited 	
5	Create new	<ul style="list-style-type: none"> Create a new group specifying: <ul style="list-style-type: none"> Name Description Category from a predefined list Photo 	

Differences from initial specs:

- Selecting friends to send invitations is done by selecting the desired ones from the list of all his/hers friends, by clicking on the person's name. Unselecting is done in the same way, by clicking on a selected person's name.

2.13.2 Differentiations based on viewer's role

This section summarizes the differences that each page may have, depending on the viewer and his/hers relationship to the person whose profile information is displayed. There are two types of differentiation:

- a change in the information displayed to the viewer
- a difference in the actions the viewer can perform

Table 22 – Groups Information based on viewer's role

	Information Presented		
Viewer	Self	No Relation	
Privacy level	Any	Not Set	Set
Main Events Page	<ul style="list-style-type: none"> • Summary • Posts 	<ul style="list-style-type: none"> • Summary • Posts 	<ul style="list-style-type: none"> • Summary
Event Members	Full details	N/A	N/A

Table 23 – Groups actions based on viewer's role

	Available Actions		
Viewer	Self	No Relation	
Privacy level	Any	Not Set	Set
Main Events Page	<ul style="list-style-type: none"> • Join • Invite friends • Add photo • Post an activity • View Members 	<ul style="list-style-type: none"> • Join 	<ul style="list-style-type: none"> • Join
Event Members	<ul style="list-style-type: none"> • View details • Invite friends 	N/A	N/A

2.14 Footer

In the following diagram, we present the functionalities of the Footer and the pages linked to the Footer.

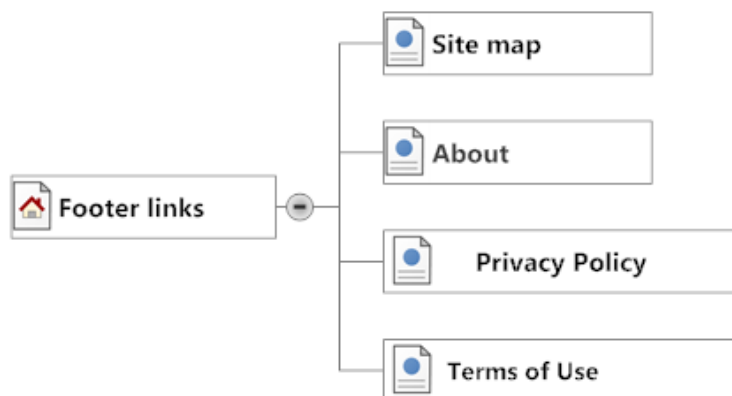


Figure 13: Footer functionality – Implemented pages

Table 24 – Footer pages and functionality

A/A	Functionality	Elements	Target page
1	Select language	<ul style="list-style-type: none"> Select language flag icons 	N/A
2	Sitemap	<ul style="list-style-type: none"> Sitemap link 	Sitemap page
3	About	<ul style="list-style-type: none"> About link 	About page
4	Privacy policy	<ul style="list-style-type: none"> Privacy policy link 	Privacy Policy page
5	Terms of use	<ul style="list-style-type: none"> Terms of use link 	Terms of Use page

Differences from initial specs:

- We removed the Security link, because its content is part of the Privacy Policy page, so it was useless.
- We placed language selection functionality on the footer to provide the users an easy way to switch the language of the site. The default language of the inner sites is the language that was selected on the Login page when the user logged in. If the user changes the language of the site, the site will remember this setting and even the Login page will appear in the selected language next time.

3. Technical Overview

3.1 Implementation Overview

Implementation is based on grouping procedures and functionality to specific components, in order to have a clear distinction between functionality and to enable reusability and easier maintenance of the system.

Function calls are routed through a series of layers in order to be processed and replied to. The following diagram shows the general guidelines for servicing calls, indicating the major components.

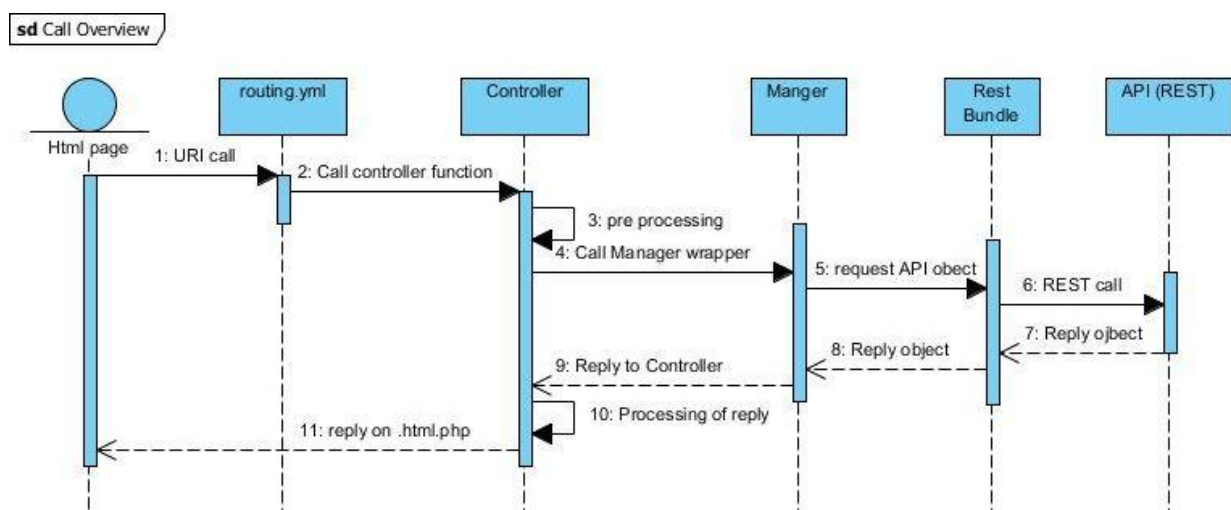


Figure 14: Call servicing sequence

The major components are the following (blue box above):

- the “Routing component”
- the Controller functionality
- the “Manager component”
- the wrapper for API calls

The process displayed in the diagram is described below:

Calls are received in the form of URIs, which are processed by the “Routing component” (routing.yml) which links a URI to the corresponding Controller functionality.

Once the controller is called, it might perform some pre-processing on the request – depending on the functionality – and sends a request to the “Manager component” in order to receive information from the API. The manager component acts as an intermediary, preparing the necessary calls which are sent to the “Rest Bundle”. The latter, is a wrapper for making the actual call to the API.

Return objects follow the reverse path until they reach the controller module. There any further processing of the received data is done and the necessary .html.php file is called with

the information that was prepared by the controller module.

There might be cases, where the controller does not need to make an API call, so steps 3 through 9 are omitted.

3.2 Source Code

Table 25 presents the locations where the abovementioned components are located. Note that a different file was created for each functionality.

Table 25 – Summary table with component's locations

A/A	Folder / Files	Description
1	\PortalBundle\Resources\config\routing\routing.yml	Configuration file routes URL paths to Controller functions
2	\PortalBundle\Resources\views\[function]*.html.php	Actual .html.php files which produce the UI
3	\PortalBundle\Controller\	Command libraries of implemented functionality
4	\PortalBundle\Manager\	Intermediary layer for preparing requests for the REST layer
5	\RestBundle\	Wrapper for invoking the API

Below follows a listing of the implementations. Two tables are included, one for the UI implementations and one for the Controllers. These are the most important items which deliver the functionality in the platform. The rest of the components serve technical needs.

Table 26 – Web interfaces files

A/A	File	Functionality
1	a1.html.php	Profile
2	detail.html.php	My Profile
3	detailed_profile.html.php	Detailed Profile
4	edit_profile.html.php	Edit my Profile
5	edit_info.html.php	Edit Basic Info
6	edit_contact.html.php	Edit Contact Info
7	edit_aboutme.html.php	Edit About me Info
8	edit_interests.html.php	Edit Interests
9	overview.html.php	Friends and Others
10	friends.html.php	Friends
11	friends_profile.html.php	Friend's Profile
12	recommendations.html.php	Recommendations (friends)
13	request.html.php	Friend's requests
14	overview.html.php	Feed
15	detail.html.php	See message, reply message, forward message
16	messages_sent.html.php	Sent messages
17	messages_write_standard.html.php	Write in Standard mode

A/A	File	Functionality
18	messages_write_wizard.html.php	Write in wizard mode
19	overview.html.php	Inbox
20	result.html.php	Search
21	album.html.php	View the photos of an album
22	create.html.php	create & edit album
23	deleteAlbumLayer.html.php	Lightbox for the deleting album
24	deletePhotoLayer.html.php	Lightbox for the deleting photo
25	detail.html.php	View photo
26	edit.html.php	edit photo
27	overview.html.php	Fresh photos
28	profile_pic.html.php	Change profile picture
29	uploadLayer.html.php	LightBox for the uploading photos
30	useralbums.html.php	View the user's albums
31	create.html.php	Create & edit an event
32	detail.html.php	Detailed event
33	friendLayer.html.php	Lightbox for friends
34	invitations.html.php	View / accept invitations
35	me.html.php	My events
36	overview.html.php	Events summary
37	participants.html.php	Event's participants
38	recommended.html.php	Recommended events
39	create.html.php	Create & edit a group
40	detail.html.php	Detailed group
41	friendLayer.html.php	Lightbox for friends
42	invitations.html.php	View / accept invitations
43	me.html.php	My groups
44	overview.html.php	Groups summary
45	members.html.php	Group members
46	recommended.html.php	Recommended groups
47	index.html.php	Main Page
48	result.html.php	Search results
49	help.html.php	Help
50	sitemap.html.php	Site map
51	about.html.php	About
52	privacy.html.php	Privacy Policy
53	terms.html.php	Terms of Use
54	application.html.php	Applications
55	lifelong_learning.html.php	Lifelong Learning application
56	lifelongVideoUploader.html.php	Lifelong Learning video uploader for admins
57	travel_memories.html.php	Travel Memories application
58	authorize.jsp	Login
59	forgottenpassword.jsp	Change password
60	registration.jsp	Registration

Table 27 – Controller files and provided functionality

File	Functions	Functionality
PeopleController.php	detailAction	My Profile
PeopleController.php	detailedProfAction	Detailed Profile
PeopleController.php	editProfAction	Edit my Profile
PeopleController.php	editInfoAction	Edit Basic Info
PeopleController.php	editContactAction	Edit Contact Info
PeopleController.php	editInterestsAction	Edit Interests
PeopleController.php	editAboutMeAction	Edit About me Info
PeopleController.php	overviewAction	Friends and Others
PeopleController.php	friendsAction	Friends
PeopleController.php	friendsProfAction	Friend's Profile
PeopleController.php	recommendationsAction	Recommendations (friends)
PeopleController.php	requestAction	Friend's requests + add + accept
PeopleController.php	removeFriendAction	Remove + ignore a friend
EditdataController.php	postAction	Post action in form in Edit Basic info
EditContactController.php	postAction	Post action in form in Edit Contact Info
EditInterestsController.php	postAction	Post action in form in Edit Interests
EditAboutMeController.php	postAction	Post action in form in Edit About me Info
ActivityController.php	overviewAction	Feed
MessageController.php	detailAction	See message, reply message, forward message
MessageController.php	sentAction	Sent messages
MessageController.php	standardAction	Write in Standard mode
MessageController.php	wizardAction	Write in wizard mode
MessageController.php	overviewAction	Inbox
MessageController.php	replyAction	reply to a message
SearchController.php	indexAction	Search
PhotoController.php	overviewAction	Fresh Photos
PhotoController.php	useralbumsAction	View the user's albums
PhotoController.php	albumAction	Album view
PhotoController.php	detailAction	Photo view
PhotoController.php	deleteAlbumCommentAction	Delete the album's comments
PhotoController.php	uploadAction	Upload photos
PhotoController.php	createAction	create & edit album
PhotoController.php	editAction	edit photo
PhotoController.php	change_profilePicAction	Change Profile picture
PhotoController.php	profilePicAction	Change Profile picture
EventController.php	createAction	Create / edit event
EventController.php	detailAction	Detailed event
EventController.php	invitationsAction	View / accept invitations
EventController.php	meAction	My events
EventController.php	overviewAction	Events summary

File	Functions	Functionality
EventController.php	participantsAction	Event's participants
EventController.php	recommendedAction	Recommended events
GroupController.php	createAction	Create / edit group
GroupController.php	detailAction	Detailed group
GroupController.php	invitationsAction	View / accept invitations
GroupController.php	meAction	My groups
GroupController.php	overviewAction	Groups summary
GroupController.php	membersAction	Group members
GroupController.php	recommendedAction	Recommended groups
AbstractController.php	preAction	Check if we have a proper user in the security context (session)
ConnectController.php	redirectToServiceAction	Redirects the user to the Main Page after successful authorization or to the Login page if the authorization was unsuccessful.
IwiwController.php	loginAction	Log in process
IwiwController.php	logout2Action	Log out process
HomeController.php	indexAction	Main Page
HomeController.php	sitemapAction	Site map
HomeController.php	aboutAction	About
HomeController.php	termsAction	Terms of Use
HomeController.php	helpAction	Help
HomeController.php	privacyAction	Privacy Policy
MenuBoxController.php	getLocaleChangeAction	Change languages
MenuBoxController.php	userTopMenuAction	Main menu
LifeLongLearningController.php	lifelong_learningAction	Render Lifelong Learning application
LifeLongLearningController.php	lifelong_learning_get_lessonsAction	Get Lifelong Learning videos
LifeLongLearningController.php	search_videos_by_titleAction	Search Lifelong Learning videos
LifeLongLearningController.php	lifelong_learning_increase_viewsAction	Lifelong Learning video views process
LifeLongLearningController.php	lifelong_learning_shareVideoAction	Lifelong Learning video share
LifeLongLearningController.php	lifelongVideoUploaderAction	Render Lifelong Learning video uploader
LifeLongLearningController.php	lifelongUploadVideoAction	Upload Lifelong Learning video
LifeLongLearningController.php	lifelongModifyVideoAction	Modify uploaded Lifelong Learning video
LifeLongLearningController.php	lifelongDeleteVideoAction	Delete uploaded Lifelong Learning video
LifeLongLearningController.php	lifelongGetUploadedVideosAction	Get Lifelong Learning videos with details to edit
TravelMemoriesController.php	travel_memoriesAction	Render Travel Memories application
TravelMemoriesController.php	checkMemoryAlreadyExistsAction	Check if the given already has a Memory in the given country
TravelMemoriesController.php	postMemoryAction	Create new Memory
TravelMemoriesController.php	updateMemoryAction	Update Memory
TravelMemoriesController.php	deleteMemoryAction	Delete Memory
TravelMemoriesController.php	getMemoryAction	Get Memories

File	Functions	Functionality
TravelMemoriesController.php	uploadPhotoAction	Upload photo to Memory
TravelMemoriesController.php	createCommentAction	Create Memory Comment

3.3 Lightbox implementation

Deviating from the original specifications it was decided that lightboxes are used within the Elder-Spaces platform. These are JavaScript based dialogs, which are opened by clicking on a link. Because of the known accessibility issues of lightboxes, we chose to use an adaption of the JQuery-Colorbox-Plugin, which handles most of them and performed further development to fulfil the requirements of WCAG2.0 Level AA. The process of selecting an appropriate solution, the investigation of open issues and the further development efforts are described in detail in Deliverable D4.5.

Table 28 – Files of the Lightbox-implementation

A/A	Folder / Files	Description
1	<code>\web\js\jquery.1.6.2.min.js</code>	Common library
2	<code>\web\js\colorbox\jquery.colorbox.js</code>	Original lightbox plugin
3	<code>\web\js\colorbox\jquery.colorbox.a11y.js</code>	Adaptions regarding accessibility
4	<code>\web\js\colorbox\jquery.history.js</code>	History plugin used by 3
5	<code>\web\js\colorbox\i18n*.*</code>	Translations
6	<code>\web\img\colorbox*.*</code>	Images used by the plugin
7	<code>\web\css\colorbox.css</code>	Original plugins style sheets
8	<code>\web\css\colorbox.a11y.css</code>	Style sheet adaptions regarding accessibility

4. Conclusions

The first version of the Elder-Spaces web site has been completed. It is up and running in www.elderspaces.com.

The code is maintained at <https://bitbucket.org/elderspaces/elder-spaces/>

There have been some minor changes to the UI and functionality with respect to the initial design specifications, most of them related to early users' comments and development time decisions. The functionality is presented here, while the UI description is part of WP5 deliverables.

Additionally, this document presents an overview of the coding structure, the different component layers that interact in order to process requests and implement the desired functionality. Finally, the actual files holding the implemented code with an index to the functionality that they implement are listed.