

# GIVE & TAKE

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Innovation Fund Denmark



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## Background

In the Give&Take project, Workpackage 5 (WP5) defines the development of the software infrastructure, user interface and web application.

## Relations to workpackage(s), task(s) and other deliverable(s)

The Give&Take platform enables senior citizens to reciprocally exchange services, creating new opportunities for the elderly to contribute to society as volunteers and caregivers in their local communities.

This deliverable is related to deliverables 5.3 (specification of user-interfaces) and 5.6 (Quality assurance report) since all these elements are an integrating part of the software development process.

## Content

The Give&Take platform was developed using the Yii2 PHP framework and has a complex database model with several relations (appendices 1 and 2).

This platform (appendices 1 and 3), which requires registration, allows users to search for open or closed communities and to join (open communities) or request to join (closed communities) those communities.

Once registered and signed up in a community users can share:

1. Conversations – messages between all members of the community. Users can also comment these conversations and have the possibility to add and edit their own conversations (appendix 4);
2. Requests & offers – users can ask for services or offer themselves to perform tasks for others. Users have the possibility to add and edit their own requests & offers, or add comments to requests & offers posted by them or by other community members (appendix 5);
3. Events – users can share events with all members of the community and check the list of participants of each event. Users have the possibility to add and edit their own events, or add comments to events created by them or by other community members (appendix 6);
4. Resources – users can provide all kinds of materials/equipment/spaces for others to use in a specific schedule. Users can check the available timeslot they can request for the resource in a calendar. They also have the possibility to add and edit their own resources, or add comments to resources created by them or by other community members (appendix 7).

Additionally, there are other areas available for users on the options menu, but their access/visibility depends on their roles:

1. Administer – the community’s administration page, where the administrator can manage the users that belong to the community and their roles (appendix 8);
2. Dashboard – displays metrics about the communities’ activities over time (appendix 9);
3. Rules and Guidelines – edit the rules and guidelines for a specific community (appendix 10);
4. Owner’s communities – allows access to a page where the user can check which communities belong to the same owner (communities that belong to that same owner as the community the user is checking) (appendix 11);
5. Create Community – users who have this option, can create new communities and set up the name, description, address and country, categories, users and roles of that community (appendix 12).

Concerning the roles of each community, they are divided in 4 main roles (after login):

1. Member – is a registered user that can join or leave communities; post and comment conversations, requests & offers, and events; and add items to the resources. The member can also view information about coordinators, managers and other members that belong to a specific community he/she belongs to;
2. Manager – is a member with some administration privileges. Besides the actions of a member, the manager can manage members and resources, edit rules and guidelines and moderate conversations and comments;
3. Coordinator – is a member with more administration privileges than a manager. In addition to the manager privileges, the coordinator can manage communities, managers, categories and aliases for the community roles;
4. Owner – owns the council (group of communities). The owner can only add conversations, manage coordinators, define categories to the communities he/she owns and customize the owner page (page with a list of communities he/she owns and the latest activity in them);

Also, all users can access their profile and edit all the information they find relevant about themselves, send feedback about the platform, search for communities or members, check the list of communities he/she belongs to and check the activity in those communities.

The Give&Take platform also has another administration area that allows super administrators to perform low level administration tasks such as managing owners (appendix 13) and feedback that is sent by the users (appendix 14).

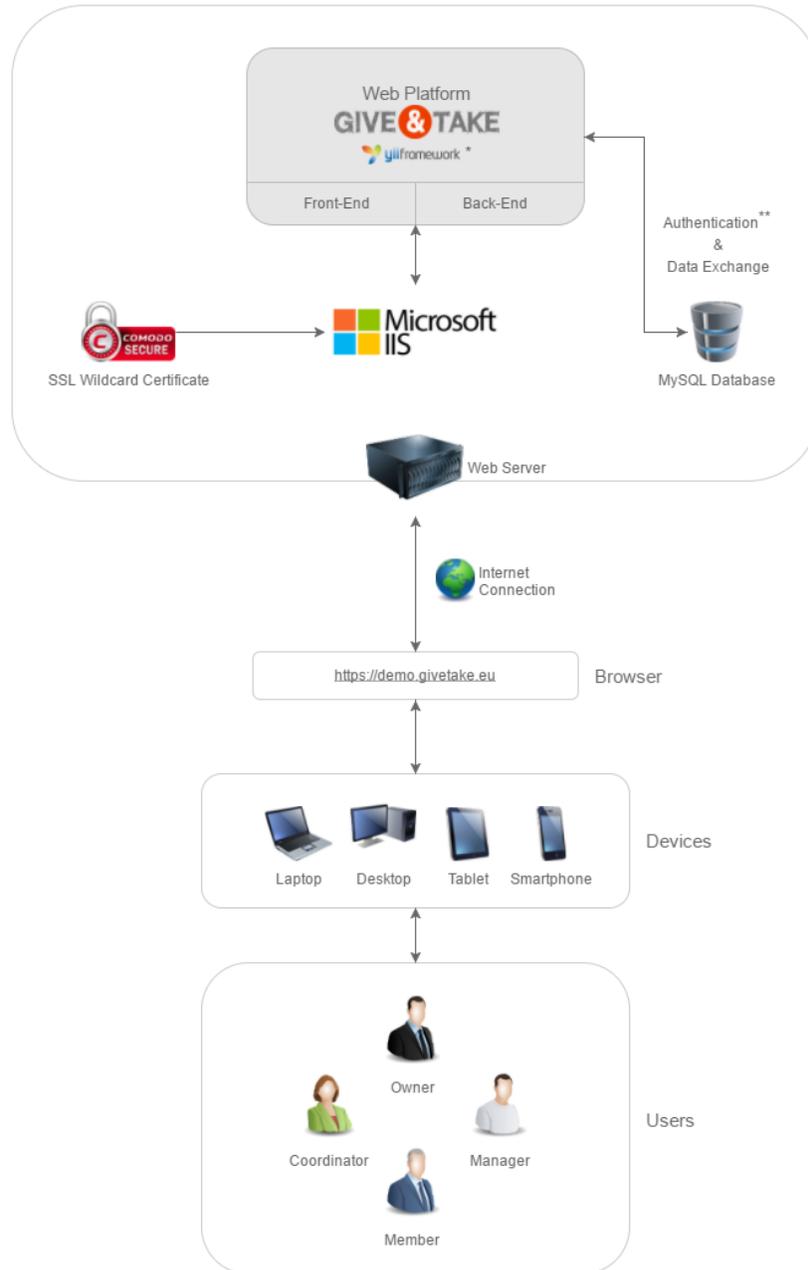
## Concerns

One of the main difficulties during the development stage was due to the platform being a prototype. Since the conceptual nature of the platform was built along the way, based on the empirical learning obtained during the living labs, we had to perform several redesigning changes to the UI and functionalities in order to fine-tune the platform.

Another difficulty encountered during the development of the platform was an issue related to the search for nearby communities. In order to use this feature, due to some browser restrictions, we had to configure the platform to use an HTTPS certificate so that we could physically locate the person who is accessing the platform and display the nearby communities.

# Appendices

## Appendix 1: Architecture Diagram



\* The platform is based on the Yii 2.0 PHP Framework (<http://www.yiiframework.com/>)  
\*\* The platform uses the Yii 2.0 Framework authentication methods (<http://www.yiiframework.com/doc-2.0/guide-security-authentication.html>) which uses password encryption (<http://www.yiiframework.com/doc-2.0/guide-security-passwords.html>).



## Appendix 3: Community - All activities

The screenshot displays a community interface for 'Music Club (Demo community)'. At the top, a green header bar shows the user 'anna@some..' as a member and the community name. A left sidebar contains navigation options: All Activities, My Activities, Conversations, Requests & Offers, Events, Resources, Members, Rules and Guidelines, Owner's communities, and Create Community. The main content area features a community banner with a musical note icon, the title 'Music Club (Demo community)', and '12 Members'. A welcome message asks for music lovers to join, with tags for 'music', 'instruments', and 'MusicLover'. A 'Leave' button is present. Below is a 'Latest Activities' section with a post from '1M 23d 4h in Music Club (Demo community)'. The post is by 'Maria Foverskov' and contains the text 'this is how the default font size looks from my Mac... again a 14 would be better'. It includes a 'Files' section with two documents named 'Mandemad\_11jan.docx'. A 'Read More' button is at the bottom right of the post.

## Appendix 4: Community – Conversations

The screenshot displays a web interface for a community named "Music Club (Demo community)". At the top, the user "anna@some.." is identified as a "Member". The interface is divided into a left sidebar and a main content area.

**Sidebar Navigation:**

- All Activities
- My Activities
- Conversations
- Requests & Offers
- Events
- Resources
- Members
- Rules and Guidelines
- Owner's communities
- Create Community

**Conversations Section:**

**Conversation 1:**

- Time: 1M 23d 4h in Music Club (Demo community)
- Stats: 0 comments, 0 likes
- Author: Maria Foverskov said
- Text: "this is how the default font size looks from my Mac... again a 14 would be better"
- Files: Mandemad\_11jan.docx (two instances)
- Action: Read More

**Conversation 2:**

- Time: 1M 23d 4h in Music Club (Demo community)
- Stats: 0 comments, 0 likes
- Author: Maria Foverskov said
- Text: "The font is very small writing from tablets. size 14 or larger would be more suitable for elderly people. And everyone else..."
- Action: Read More

**Conversation 3 (partial):**

- Time: 1M 24d 2h in Music Club (Demo community)

# Appendix 5: Community – Requests & Offers

**anna@some..**  
Member

**Music Club (Demo community)**

All Activities  
My Activities  
Conversations  
**Requests & Offers**  
Events  
Resources  
Members  
Rules and Guidelines  
Owner's communities  
Create Community

### Requests & Offers

Here you can make a request for something you need or make a offer to do something for someone.

[Calendar](#) [Post a Request / Offer](#)

7M 6d 21h in Music Club (Demo community) 1 comments

**Adam Parker**  
would like to help someone  
**SALES - ARE YOU LOOKING FOR A GUITAR?**  
2016-04-01 11:00 to 2016-04-30 19:00

**Rita (Take the Wind)** made a comment  
Member 7M 6d 21h ago

I need please

[Read More](#)

7M 14d 2h in Music Club (Demo community) 0 comments

**Maria Foverskov** is looking for someone  
**METRONOME**

# Appendix 6: Community - Events

 **anna@some..** Member

**Music Club (Demo community)**

- All Activities
- My Activities
- Conversations
- Requests & Offers
- Events**
- Resources
- Members
- Rules and Guidelines
- Owner's communities
- Create Community

### Events

Find the events that are planned in your community.  
If you want to, you can also post an event yourself.

[Calendar](#) [Post an Event](#)

**7M 6d 0h in Music Club (Demo community)** **0 comments 3 attending**

 **Anna Gliesner**

#### LEVEL 1 - GUITAR MUSIC CLASS

2016 Jan 06 14:00 - 18:00  
Coimbra



[Read More](#)

**7M 14d 2h in Music Club (Demo community)** **1 comments 1 attending**

 **Maria Foverskov**

#### CONCERT IN STJERNENS FÆLLESHUS

2016 Sep 15 14:00 - 15:00  
the yellow pavilion at Kong Georgs Vej 86

 **Maria Foverskov** made a comment 7M 14d 2h ago

# Appendix 7: Community – Resources

The screenshot shows a user interface for a community page. At the top, the user 'anna@some..' is logged in as a member of the 'Music Club (Demo community)'. A navigation sidebar on the left includes options like 'All Activities', 'My Activities', 'Conversations', 'Requests & Offers', 'Events', 'Resources', 'Members', 'Rules and Guidelines', 'Owner's communities', and 'Create Community'. The main content area is titled 'Resources' and contains a sub-header: 'Find and book different resources or inventory that is available in your community. If you have some resources you want to share, post them here.' Below this is a purple button labeled 'Add to Resources'. The first resource listing is for 'BAMBU FLUTE - SWAP', posted 7 months and 6 days ago by Margot (Take The Wind). It has 1 comment from Anna Gliesner, who says 'I can swap with you :)'. A 'Read More' button is visible. The second resource listing is for 'EXTRA VIOLIN', posted 16 months and 4 days ago by Pedro Pinto, with 0 comments. The interface uses a green header, a light green sidebar, and purple accents for resource listings.

## Appendix 8: Community – Administer

anna@some.. Coordinator

Consortium G&T

All Activities

My Activities

Conversations

Requests & Offers

Events

Resources

**Administer**

Dashboard

Rules and Guidelines

Owner's communities

Create Community

Administer + Add Member

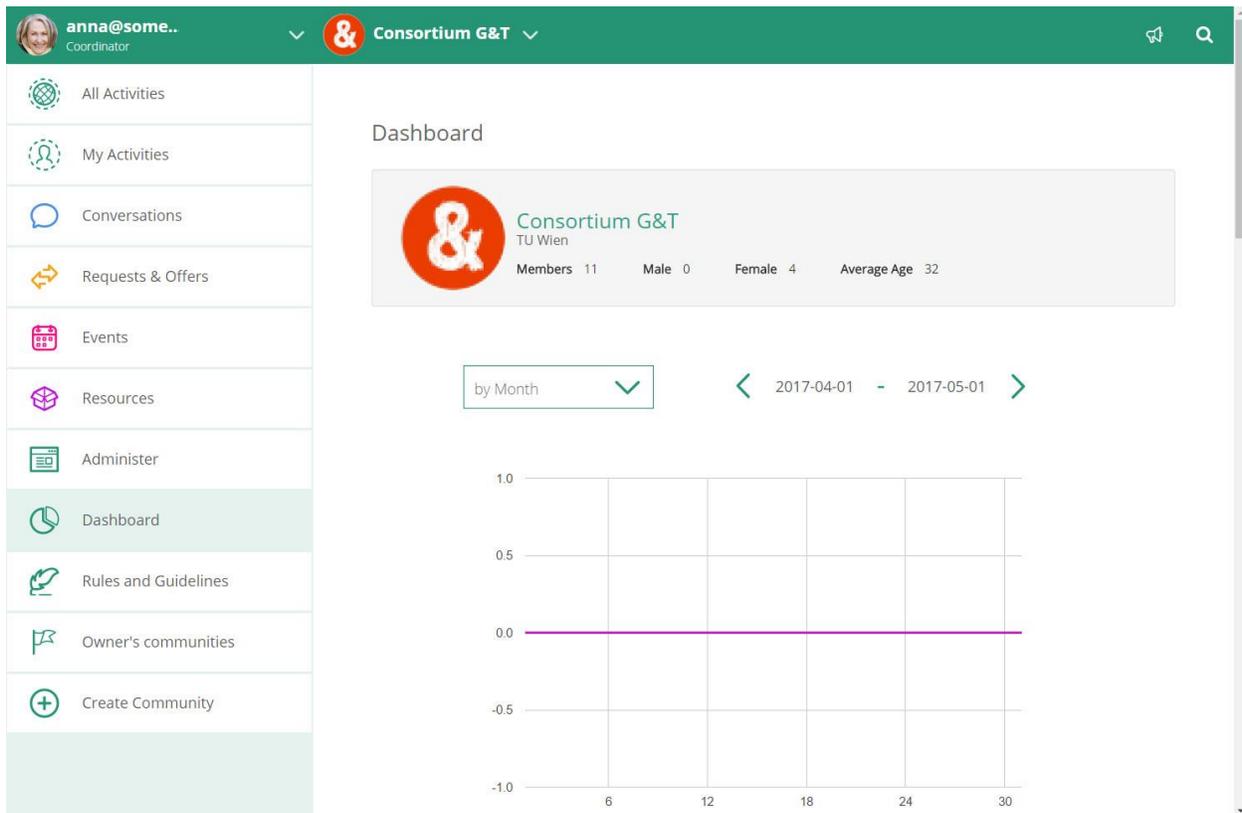
Member Manager Coordinator Owner

Show 10 entries Search:

User	Actions
Julia Loup	<a href="#">Delete</a>
Line Mulvad	<a href="#">Delete</a>
Lone Malmborg	<a href="#">Delete</a>
Maja	<a href="#">Delete</a>
Pedro Pinto	<a href="#">Delete</a>
Thomas Binder	<a href="#">Delete</a>

Showing 1 to 6 of 6 entries Previous 1 Next

## Appendix 9: Community – Dashboard



# Appendix 10: Community – Rules and Guidelines

The screenshot shows a user interface for a community page. At the top, there is a green header bar with a user profile for 'anna@some..' (Member) on the left, the community name 'Music Club (Demo community)' in the center, and a search icon on the right. Below the header is a vertical sidebar menu with the following items: 'All Activities', 'My Activities', 'Conversations', 'Requests & Offers', 'Events', 'Resources', 'Members', 'Rules and Guidelines' (highlighted), 'Owner's communities', and 'Create Community'. The main content area is titled 'Rules and Guidelines' and contains a text box with the following text: 'Anyone is welcome to this community. Always be fair and gracious.'

## Appendix 11: Owner's page

The screenshot shows the 'Owner's page' for a community. At the top, there is a green header bar with the user's profile picture and name 'anna@some..', a dropdown menu, a globe icon, and the text 'All Communities'. On the left side, there is a vertical navigation menu with four items: 'All Activities', 'My Activities', 'Dashboard', and 'Create Community'. The main content area features a large green banner for 'TU WIEN' with the text '18 communities with 107 Members'. Below this, the section is titled 'COMMUNITIES' and displays a grid of community cards. Each card includes an icon, the community name, the number of members, and a brief description.

Community Name	Members	Description
Martins test community	6 Members	
Consortium G&T	11 Members	
Seniordagen 2015	13 Members	Dette er et fællesskab for folk som deltager på Seniordagen 2015 på Frederiksberg Rådhus
consortium community	3 Members	its a great community
NBZ - Nachbarschaftszentrum	9 Members	Nachbarschaftszentrum in 1220
G&T Schwechat	19 Members	Hier können Neuigkeiten, Fähigkeiten und Dinge ausgetauscht, gemeinsame Treffen organisiert oder interessante Veranstaltungen angekündigt werden.

## Appendix 12: Create Community

The screenshot shows a user interface for creating a community. At the top, a green header bar contains the user's profile 'anna@some..' (Member) and the community name 'Music Club (Demo community)'. A left sidebar lists navigation options: All Activities, My Activities, Conversations, Requests & Offers, Events, Resources, Members, Rules and Guidelines, Owner's communities, and Create Community. The main content area is titled 'Setting a Community' and includes a 'Learn' button. Below the title are four steps, with the first step '1' highlighted in a red circle. The form consists of several input fields: 'Select an organisation' (dropdown), 'Name of the Community', 'Description of the Community' (text area), 'Select a community type' (dropdown), 'Insert Tag', an 'Upload' button with a camera icon, and 'Select a country' (dropdown).

anna@some.. Member

Music Club (Demo community)

All Activities

My Activities

Conversations

Requests & Offers

Events

Resources

Members

Rules and Guidelines

Owner's communities

Create Community

Setting a Community

Learn

Steps 1 2 3 4

Select an organisation

Name of the Community

Description of the Community

Select a community type

Insert Tag

Upload

Select a country

## Appendix 13: Back-office – Owner management

Admin TTW ▾

Owners

Feedback

### Owners

[+ Add Owner](#)

Show 10 entries Search:

User Id	Username	Name	Actions
50	ricardoseco@takethewind.com	 TU Wien	<a href="#">Edit</a> <a href="#">Disable</a>
75	Socialsquare	 Socialsquare	<a href="#">Edit</a> <a href="#">Disable</a>
76	Ældresagen Frederiksberg	 Ældresagen Frederiksberg	<a href="#">Edit</a> <a href="#">Disable</a>
97	TTW	 Take The Wind	<a href="#">Edit</a> <a href="#">Disable</a>
98	Admin ie11	 Council ie11	<a href="#">Edit</a> <a href="#">Disable</a>
101	Stjernen	 AKB Stjernen	<a href="#">Edit</a> <a href="#">Disable</a>
102	Give&Take foundation	 Martin christensen	<a href="#">Edit</a> <a href="#">Enable</a>
103	Socialsquare alumni	 Socialsquare alumni	<a href="#">Edit</a> <a href="#">Disable</a>
104	Admin	 Ældresagen Frederiksberg IT	<a href="#">Edit</a> <a href="#">Enable</a>

## Appendix 14: Backoffice – Feedback management

Admin TTW ▾

Owners

Feedback

### Feedback

[+ Add Feedback](#)

Show  entries Search:

Id	Title	Description	image	Type	Priority	Status	Creation Date	Modification Date	User Id	Actions
75	all communities button	I can't see all communities but just commonroom. how can I make a connection between other communities and commonroom.		User Feedback	Low	Open	2017-03-26 21:37:02	2017-03-26 21:37:02	319	<a href="#">Edit</a>
74	NICHT EINFACH "EINZUSTEIGEN"	Wie kommt man jemals wieder "normal" in G&T hinein. Das Tablet trotz allen Versuchen, mit mittlerweile diverssten Passwörtern "einzusteigen". Wie ihr anhand des Fotos erkennt, ist nicht nur Rosi, um deren Tablet es sich handelt, sondern auch ich vollkommen verzweifelt. Bitte um Aufklärung, sonst hilft uns nur noch Hochprozentiges !!! 2x Baba	<a href="#">1489160919805.jpg</a>	User Feedback	Low	Open	2017-03-10 15:48:41	2017-03-10 15:48:41	128	<a href="#">Edit</a>
73	Foto af Fru Heises-kager	Her er foto af dine gode småkager.	<a href="#">1486647239465.jpg</a>	User Feedback	Low	Open	2017-02-09 13:34:00	2017-02-09 13:34:00	287	<a href="#">Edit</a>
72	Kalenderfunktion	Under begivenheder bør den enkelte begivenhed automatisk fremkomme i dato-orden. F.e.s ligger den første begivenhed sidst i rækken. Og begivenhed nr.2 midt i rækken af begivenheder.		User Feedback	Low	Open	2017-02-09 13:24:04	2017-02-09 13:24:04	286	<a href="#">Edit</a>