



DELIVERABLE

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1. INTRODUCTION

1.1 Scope and objectives of the deliverable

Regarding the black box model, each component would publish their public interfaces so that other components could access them. This will allow the reutilization of services and will allow the creation of a system with better performance. This document describes the different interfaces.

1.2 Structure of the deliverable

This report is structured into five different chapters.

Chapter 1 is the introductory chapter which contains a description of the scope and objectives of the deliverable as well as this subsection summarizing the structure of the deliverable.

Chapter 2 gives an overview on how is the Elderhop API structured and provides the final endpoint used by the client applications.

Chapter 3 describes the different services developed for the Admin API, used by the admin frontend.

Chapter 4 describes the different services developed for the User API, used by the client applications.

2. SUMMARY

This document is a reference guide for the REST Services implemented by the server. In other words, the ElderHop API definition.

Two different APIs are offered by the server. The one to be used by client applications, also known as User API, and the one to be used for the Admin Frontend, also known as Admin API, so administrators can manage the ElderHop database.

The Elderhop API services are hosted on Windows Azure.

3. ELDERHOP ADMIN API SERVICES

Admin Services are divided in different groups, according to their functionality:

- Users management
- Administrators management
- Products management

3.1 Users Management

Main API functions for managing users in the database. The list of services offered is shown below:

- Create User
- Get User
- Update User
- Delete User
- Get a list of users
- Search users by name
- View User profile
- View User ECL
- View User Trip summaries
- View User detailed trip
- Get friends of user

Service	CREATE USER
Description	This is the service to create a new user in the database.
Method	POST

Service	GET USER
Description	This is the service to read the content of an user of Elderhop.
Method	GET

Service	UPDATE USER
Description	This is the service to update user information on the database.
Method	PUT

Service	DELETE USER
Description	This is the service to remove an user from the database.
Method	DELETE

Service	LIST USERS
Description	This is the service to list users of Elderhop. It is similar to read user but with paging support.
Method	GET

Service	SEARCH USERS
Description	This is the service to search for users of Elderhop. It is similar to list user but with name filtering.
Method	GET

Service	VIEW USER PROFILE
Description	This is the service to retrieve the profile of a specific user on Elderhop.
Method	GET

Service	VIEW USER ECL
Description	This is the service to retrieve the emergency contact list of a specific user on Elderhop.
Method	GET

Service	VIEW USER TRIP SUMMARIES
Description	This is the service to retrieve summaries of the trips of an user on Elderhop.
Method	GET

Service	VIEW DETAILED USER TRIP
Description	This is the service to retrieve the content of one of the trips of an user on Elderhop.
Method	GET

Service	GET USER FRIENDS
Description	This is the service to list friends of a user.
Method	GET

3.2 Administrators Management

Main API functions for managing administrators in the database. The list of services offered is shown below:

- Create Administrator
- Get Administrator
- Update Administrator
- Delete Administrator
- Get a list of administrators
- Search administrator by name

Service	CREATE ADMINISTRATOR
Description	This is the service to create a new administrator in the database.
Method	POST

Service	GET ADMINISTRATOR
Description	This is the service to read the content of an administrator of Elderhop.
Method	GET

Service	UPDATE ADMINISTRATOR
Description	This is the service to update administrator information on the database.
Method	PUT

Service	DELETE ADMINISTRATOR
Description	This is the service to remove an administrator from the database.
Method	DELETE

Service	LIST ADMINISTRATORS
Description	This is the service to list administrators of Elderhop. It is similar to read administrator but with paging support.
Method	GET

Service	SEARCH ADMINISTRATORS
Description	This is the service to search for administrators of Elderhop. It is similar to list administrator but with name filtering.
Method	GET

3.3 Products Management

Main API functions for managing products in the database. The list of services offered is shown below:

- Get product
- Update product
- Delete product
- Get a list of products
- Search products by name
- Translate product fields
- Update product price
- Get a list of stores
- Get product store information

Service	GET PRODUCT
Description	This is the service to read the content of a product in Elderhop database.
Method	GET

Service	UPDATE PRODUCT
Description	This is the service to update information of a product on the database.
Method	PUT

Service	DELETE PRODUCT
Description	This is the service to remove a product from the database.
Method	DELETE

Service	LIST PRODUCTS
Description	This is the service to list products in Elderhop. It is similar to read product but with paging support.
Method	GET

Service	SEARCH PRODUCTS BY NAME
Description	This is the service to search products by name in Elderhop. It is similar to list products but with name filtering.
Method	GET

Service	TRANSLATE PRODUCT FIELDS
Description	This is the service that will be used to translate products. It creates a new product into the translated products collection, but changing some fields (text fields that are translated).
Method	POST

Service	UPDATE PRODUCT PRICE
Description	This is the service that will be used to update store product prices, both original and offer prices, in the database.
Method	POST

Service	LIST OF STORES
Description	This is the service that will be used to get a list of all stores in the database.
Method	GET

Service	PRODUCT STORE INFORMATION
Description	This is the service that will be used to get store information of a product.
Method	GET

3.4 Translated Products Management

Translated products created with the “translateProduct” service will be stored in a separate collection on the Elderhop database.

Translated products have the same services (except “translateProduct” service) as regular products. Furthermore, the description for products is valid for translated products. The only thing that differs is the API call: **translatedproduct** instead of **product**.

3.5 Database Management

In order to offer the possibility to return always to a working version of the database, a service for restore the Elderhop database has been created. This is based on the tools described on the “Server components” deliverable.

Service	RESTORE DATABASE
Description	Restore the database to the original state.
Method	POST

4. ELDERHOP USER API SERVICES

User Services are divided in different groups, according to their functionality:

- Users management

- Friends management
- Trips management
- Wall messages management
- Products management
- Stores management

4.1 Users Management

Main API functions for managing users through the client applications. The list of services offered is shown below:

- Get user profile
- Update user profile
- Get user ECL
- Get user ECL entry
- Create an ECL entry
- Update an ECL entry
- Delete an ECL entry
- Get a list of user favorite offers
- Get user favorite offer
- Delete all user favorite offers
- Create a new favorite offer
- Delete a favorite offer
- Get a list of user recommendations
- Get a user recommendation
- Delete all user recommendations
- Create a new recommendation
- Delete a user recommendation
- Get a list of user preferred stores

Service	GET USER PROFILE
Description	Obtain information about user profile
Method	GET

Service	UPDATE USER PROFILE
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Description	Update data for user profile
Method	PUT

Service	GET USER ECL
Description	Obtain the user Emergency Contact List
Method	GET

Service	GET USER ECL ENTRY
Description	Obtain an specific Emergency Contact from the ECL
Method	GET

Service	CREATE AN ECL ENTRY
Description	Create a new entry on the ECL
Method	POST

Service	UPDATE AN ECL ENTRY
Description	Update an existing entry on the ECL
Method	PUT

Service	DELETE AN ECL ENTRY
Description	Delete an existing entry from the ECL
Method	DELETE

Service	LIST FAVORITE OFFERS
Description	Get a list of user favorite offers
Method	GET

Service	GET USER FAVORITE OFFER
Description	Get a list of user favorite offers
Method	GET

Service	DELETE FAVORITE OFFERS
Description	Delete all user favorite offers
Method	DELETE

Service	CREATE FAVORITE OFFER
Description	Create a new favorite offer for the user
Method	POST

Service	DELETE FAVORITE OFFER
Description	Delete a favorite offer from the user
Method	DELETE

Service	GET USER RECOMMENDATIONS
Description	Get a list of user recommendations
Method	GET

Service	GET USER RECOMMENDATION
Description	Get a user recommendation
Method	GET

Service	DELETE USER RECOMMENDATIONS
Description	Delete all user recommendations
Method	DELETE

Service	CREATE USER RECOMMENDATION
Description	Create a new recommendation for a user
Method	POST

Service	DELETE USER RECOMMENDATION
Description	Delete an existing recommendation from a user
Method	DELETE

Service	GET USER PREFERRED STORES
Description	Get a list of preferred stores for the user
Method	GET

4.2 Friends Management

Main API functions for managing friends through the client applications. The list of services offered is shown below:

- Search friends by name
- Get a list of user friends
- Delete a friend

- Get a list of user friend requests
- Create a new user friend request
- Accept/Reject a friend request
- Get friends nearby

Service	SEARCH FRIENDS BY NAME
Description	Search user friends by name
Method	GET

Service	GET FRIEND LIST
Description	Get a list of user friends
Method	GET

Service	DELETE FRIEND
Description	Delete a user friend
Method	DELETE

Service	GET FRIEND REQUESTS
Description	Get a list of user friend requests
Method	GET

Service	CREATE FRIEND REQUEST
Description	Create a new friend request
Method	POST

Service	HANDLE FRIEND REQUEST
Description	Accept / Reject a friend request
Method	DELETE

Service	GET FRIENDS NEARBY
Description	Get a list of friends nearby
Method	GET

4.3 Trips Management

Main API functions for managing trips through the client applications. The list of services offered is shown below:

- Get user trip summaries
- Get a user detailed trip
- Create a new trip
- Update a trip
- Delete a trip

Service	GET TRIP SUMMARIES
Description	Get a list of trip summaries
Method	GET

Service	GET TRIP
Description	Get a detailed trip from the user
Method	GET

Service	CREATE TRIP
Description	Create a new trip for the user
Method	POST

Service	UPDATE TRIP
Description	Update an existing trip for the user
Method	PUT

Service	DELETE TRIP
Description	Delete an existing trip from the user
Method	DELETE

4.4 Wall messages Management

Main API functions for managing trips through the client applications. The list of services offered is shown below:

- Get user social wall messages
- Create a new wall message
- Delete a wall message

Service	GET WALL MESSAGES
Description	Get user social wall messages
Method	GET

Service	CREATE WALL MESSAGE
Description	Create a new wall message
Method	POST

Service	DELETE WALL MESSAGE
Description	Delete a wall message
Method	DELETE

4.5 Products Management

Main API functions for managing products through the client applications. The list of services offered is shown below:

- Search products by name
- Search products by UPC
- Get product information
- Get a list of products
- Get a list of offers for a product

Service	SEARCH PRODUCTS BY NAME
Description	Search products by name
Method	GET

Service	SEARCH PRODUCTS BY UPC
Description	Search products by UPC code
Method	GET

Service	GET PRODUCT INFO
Description	Get products information

Method	GET
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Service	LIST PRODUCTS
Description	Get a list of products
Method	GET

Service	GET PRODUCT OFFERS
Description	Get a list of offers for a product
Method	GET

4.6 Stores Management

Main API functions for managing stores through the client applications. The list of services offered is shown below:

- Get store information
- Get offers inside a store
- Search stores by name
- Get a list of stores

Service	GET STORE INFO
Description	Get information about a store
Method	GET

Service	GET STORE OFFERS
Description	Get offers inside a specific store
Method	GET

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Service	SEARCH STORES BY NAME
Description	Get offers inside a specific store
Method	GET

Service	LIST STORES
Description	Get a list of stores in the database
Method	GET