### **2.2.1. Functional Requirements - FR**

#### **2.2.1.1. User Management - UM**

* **FR-UM-1:** Only authenticated users will be able to access the application (except for the login page). When users log in, the system will verify the access data (UAM email and password) entered by them with the UAM authentication system.

1. If the user is not logged in he will see a login page.
2. To access the page users have to write username and password in the login interface.
3. When the user writes username, password and other data fields correctly and clicks the login button the application functionality will become available.
4. Data written in the login interface (username and password) will be processed by the user authentication system.
5. If the authentication is accepted, the system will assign a session to the user

(authenticated user).

1. If the UAM authentication system returns a valid response a new user session will be created and the application will be shown to the user.
2. If the authentication system returns a not valid response the login interface will show again with a Invalid Username or Password message.

* **FR-UM-2:** When users log out, the system will delete their session (unauthenticated user).

1. To log out, the user must click on the settings button and then on the logout button. The user session will then end. The system will save all user data in case something has changed and then it will delete the current session.
2. The application will stop being available.
3. The login interface will show up for a new user to login.

* **FR-UM-3:** When users access the system for the first time, an “empty” profile will be created (containing only email and password).

1. If the user has not used the application before, a new user profile with the user data will be created when the login button is pressed.
2. A new virtual payment account will be created by the system with basic payment information of the user.

* **FR-UM-4:** Authenticated users will be able to see the rides published and reserved by them (historical) as well as the payments they have made for each ride.

1. Authenticated users can see a list with all published and reserved rides (by the current user) by pressing on the list button in the main page and then the my rides button. Rides will be organized on a historical order on the list. Payments of each ride will be shown next to each ride data.

* **FR-UM-5:** Authenticated users will be able to see the profile of the user offering a ride.

1. Authenticated users can select the user icon of a specific ride to see the user profile of the driver. This will display a profile page with all the information about the drive, including name, age, picture and reviews.

* **FR-UM-6:** Authenticated users will be able to send and receive messages

1. The users will have a chat to interact between each other.
2. Users will see if the chat is for passenger or driver mode.
   1. Passengers will be able to speak with drivers of booked and confirmed trips.
   2. Drivers will see passenger chats for paid trips. Additionally they will also be able to chat with passengers that have only booked a seat.

# UFP Details

### **Functional Requirements - FR**

* **FR-UM-1:**

**EI-User Log In**

DET:

* + Username input box
  + Password input box
  + Submit button

FTR:

* + User data
  + User profile

Conclusion: The complexity is Low with 3 DET and 2 FTR

* **FR-UM-1:**

**EQ-System verification**

DET:

* + Username
  + Password

FTR:

* + User data
  + User profile

Conclusion: The complexity is Low with 2 DET and 2 FTR

* **FR-UM-2:**

**EI-User Logout**

DET:

* + Logout button
  + User session

FTR:

* + User data
  + User profile

Conclusion: The complexity is Low with 2 DET and 2 FTR

* **FR-UM-3:**

**Ei-User Register**

DET:

* + Username input box
  + Password input box

FTR:

* + User data
  + User profile
  + Balance data

Conclusion: The complexity is Medium with 2 DET and 3 FTR

* **FR-UM-5:**

**EO-Look driver profile**

DET:

* + Drive information
  + Driver information
  + Submit button

FTR:

* + Driver profile

Conclusion: The complexity is Low with 3 DET and 1 FTR

* **FR-UM-6:**

**EI-Send Message**

DET:

* + User information
  + Receiver information
  + Message
  + Submit button

FTR:

* + User profile
  + Receiver Profile
  + User Messages
  + Receiver Messages

Conclusion: The complexity is Medium with 4 DET and 4 FTR

**ILF**

* **ILF-User Management**

DET:

* + User Email
  + User Password
  + User Profile
  + User Messages

RET:

* + Mandatory subgroup

Conclusion: The complexity is Low with 4 DET and 1 RET

**EIF**

* **EIF-System verification**

DET:

* + User Email
  + User Password

RET:

* + Mandatory subgroup

Conclusion: The complexity is Low with 2 DET and 1 RET