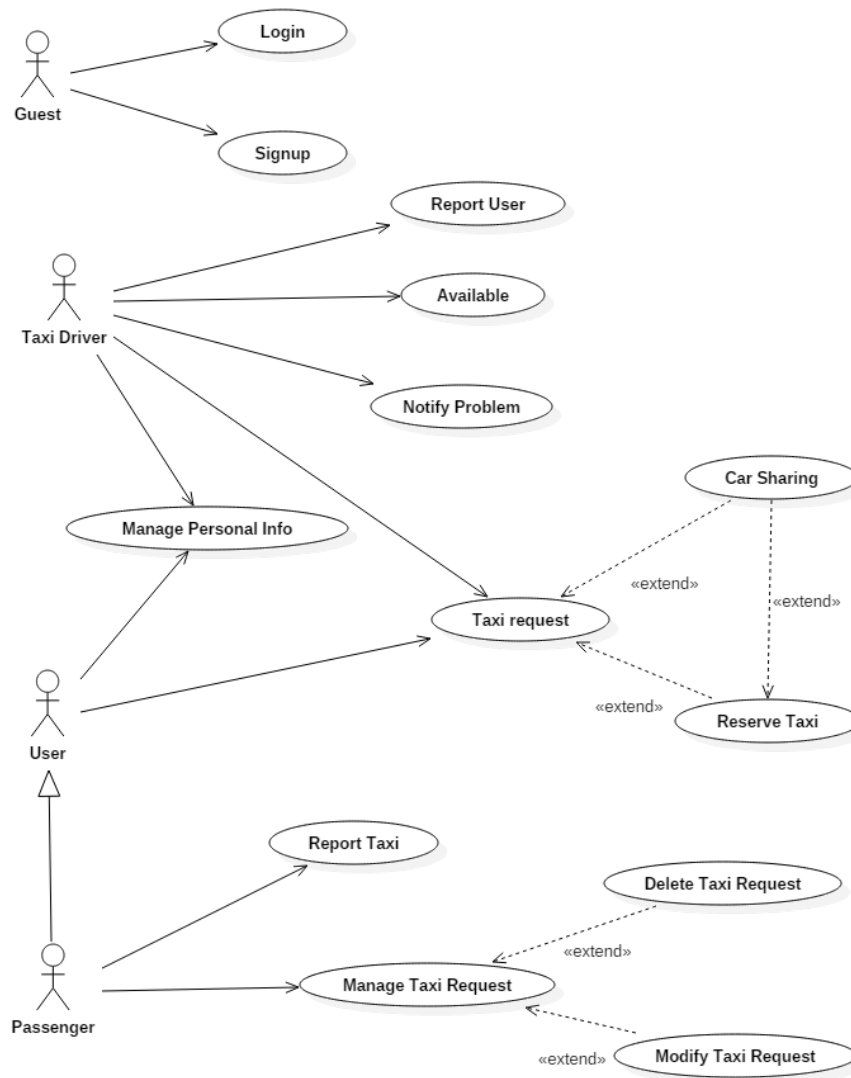


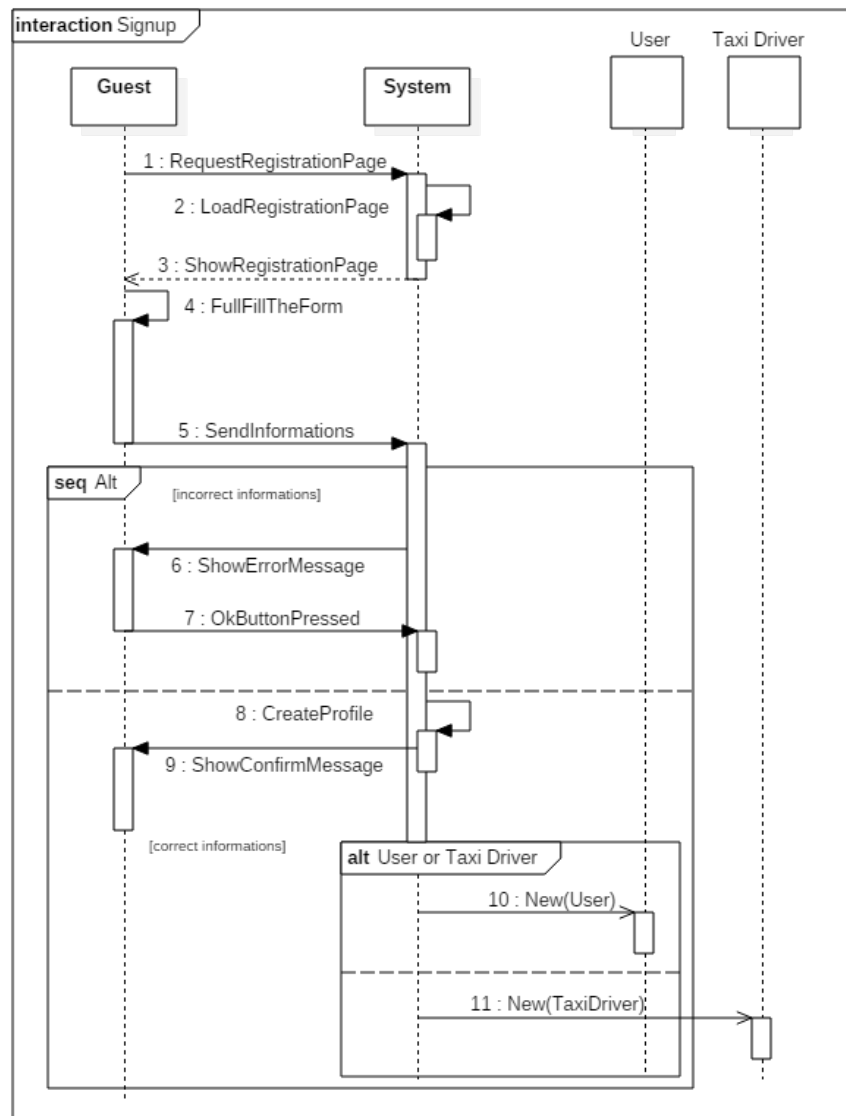
1 UseCase Diagram



2 Sequence Diagram

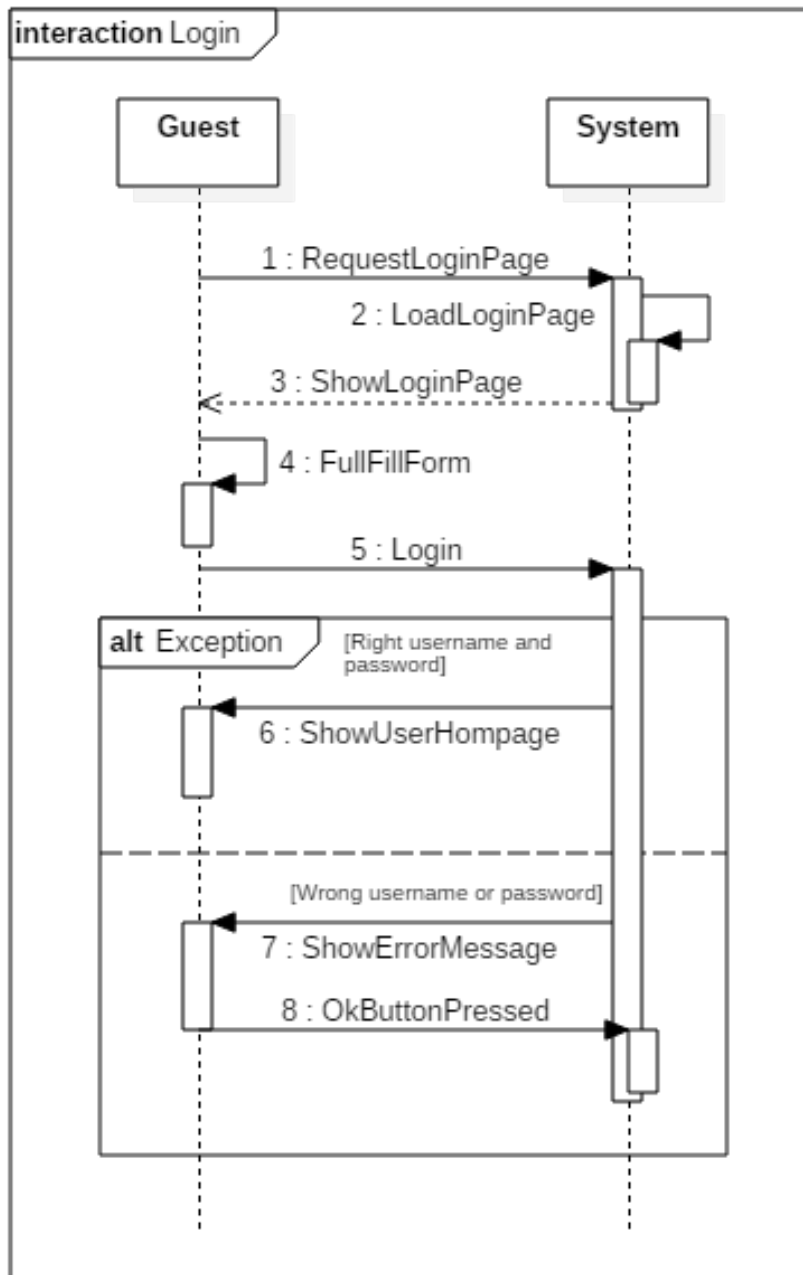
2.1 Signup

Actors	Guest
Preconditions	The Guest is not registered into the system
Execution Flow	<ol style="list-style-type: none">1. The Guest request the registration page2. The System requires the Signup information3. The Guest fill the form and submit the request4. The System check the uniqueness of the Username and E-Mail5. The System create the User (or Taxi drive) profile6. The System send the confirm the the Guest
Postconditions	The guest is now a User o a Taxi driver
Exceptions	The E-Maill or username are not unique or, in the case of taxi driver signup, the licenses are not valid



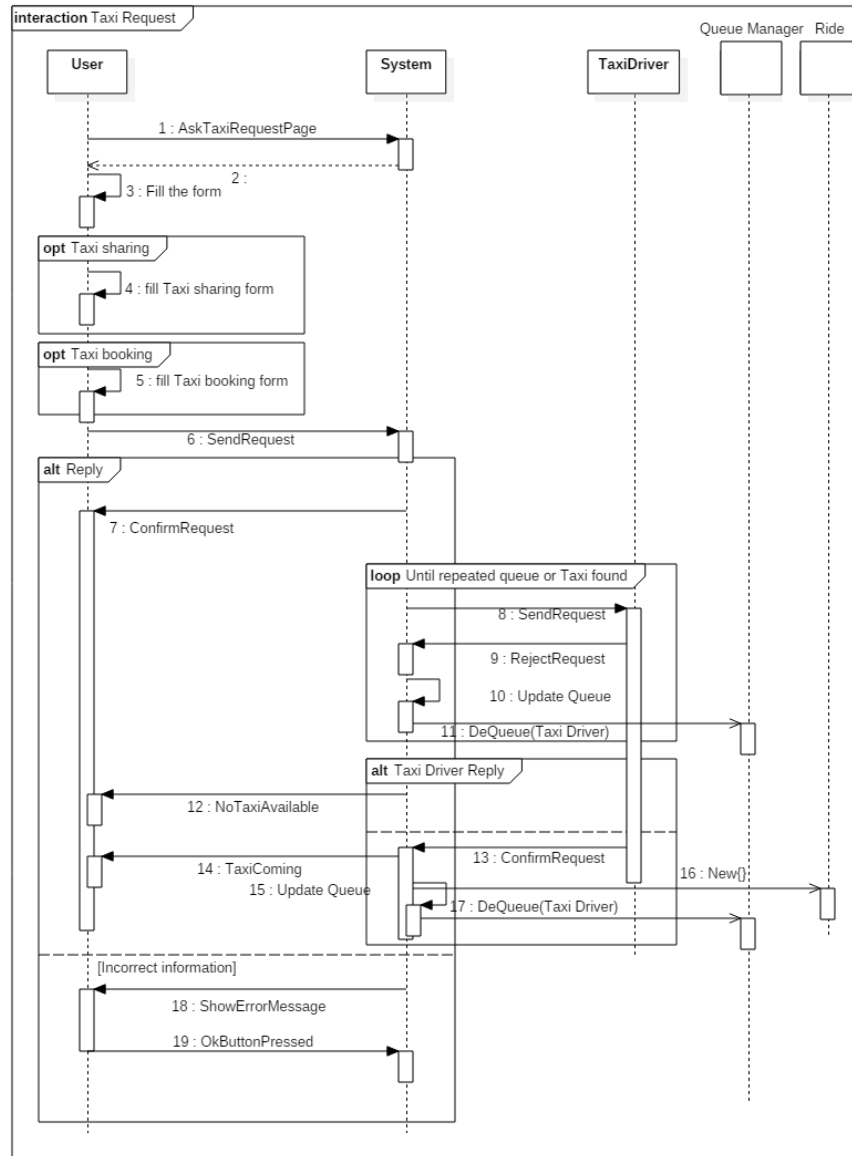
2.2 Login

Actors	Guest
Preconditions	The Guest has already a profile into the System
Execution Flow	<ol style="list-style-type: none">1. The Guest request the login page2. The System requires the Login information (Username, Password)3. The Guest fill the form and submit the request4. The System check the Username and Password5. The System send the confirmation of Login6. The Guest is logged into the System7. The Guest is redirected to the User profile Page
Postconditions	The guest is now a User or Taxi Driver
Exceptions	The Username, password couple is incorrect, so the Guest cannot log in



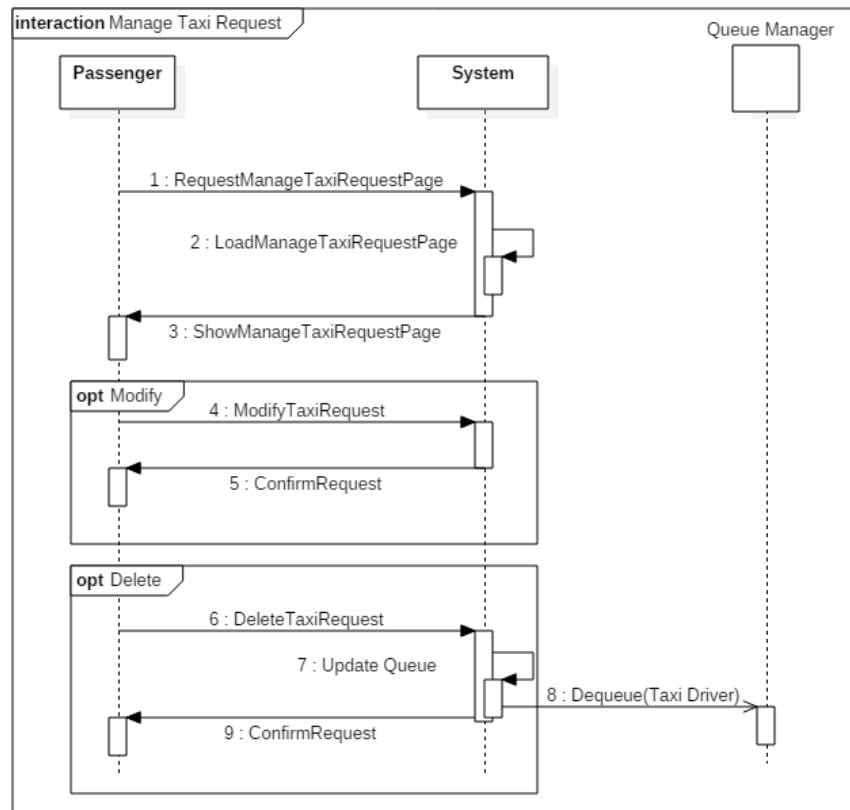
2.3 Taxi Request

Actors	User, Taxi Driver
Preconditions	The User should not be banned
Execution Flow	<ol style="list-style-type: none">1. The Guest request the Taxi Request page2. The System requires the type of request the User wants to perform3. The User provide the choice to the System4. The System ask for the information to perform the choose request5. The User fill the form and send the information to the System6. The System forward the request to the first Taxi Driver of the local queue7. If the Taxi Driver answer positively to the request he take in charge the User, otherwise he deny the request8. If the Taxi Driver answered positively the System notify to the User the incoming taxi and change the availability of the Taxi Driver, otherwise the System update the queue and forward the request to the new first of queue until the queue is not repeated9. If there are no Taxis available the System notify to the User the unavailability
Postconditions	If the request has positively response the User is now a Passenger
Exceptions	<ul style="list-style-type: none">• The User provides incorrect informations in the request form• The User is not into a valid position (<i>e.g. outside the city</i>)



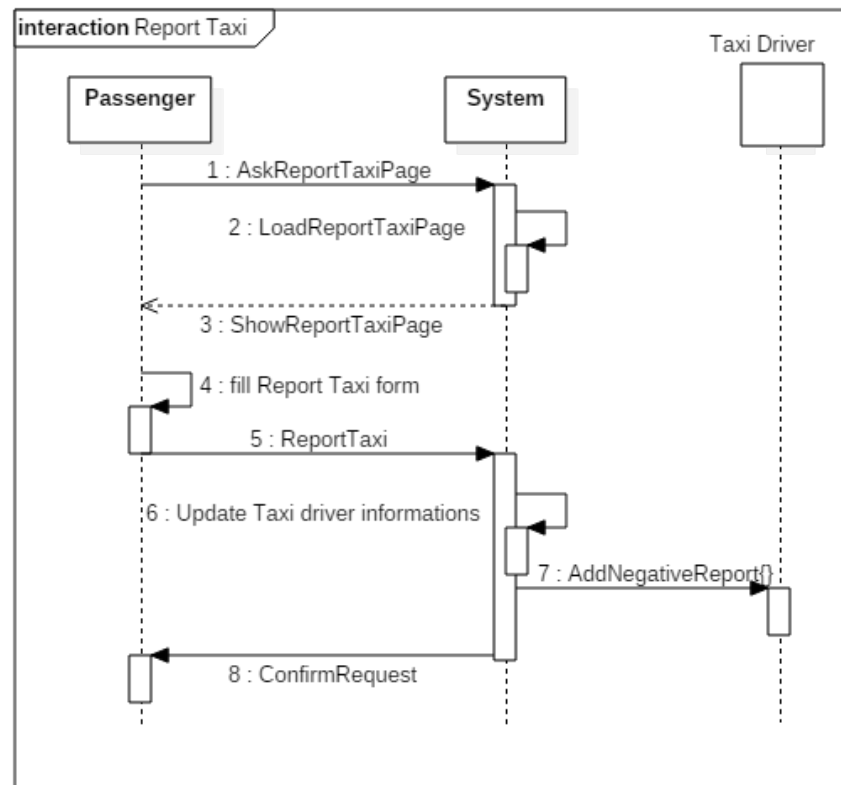
2.4 Manage Taxi Request

Actors	Passenger
Preconditions	
Execution Flow	<ol style="list-style-type: none">1. The Passenger request the Taxi Request Management page2. The System load the page and return it to the Passenger3. The Passenger can modify the Request full filling the modify Request4. The System modify the request and return a confirm to the Passenger5. The Passenger can delete the request, submitting the operation to the System6. The System update the queue and return a confirmation to the Passenger
Postconditions	<ul style="list-style-type: none">• If the Passenger choose to modify the Request, the request is updated• If the Passenger choose to delete the Request, the request is canceled and the taxi is now in queue
Exceptions	<ul style="list-style-type: none">• The Passenger provides incorrect informations in the modify request form• The Passenger cancel the request too late



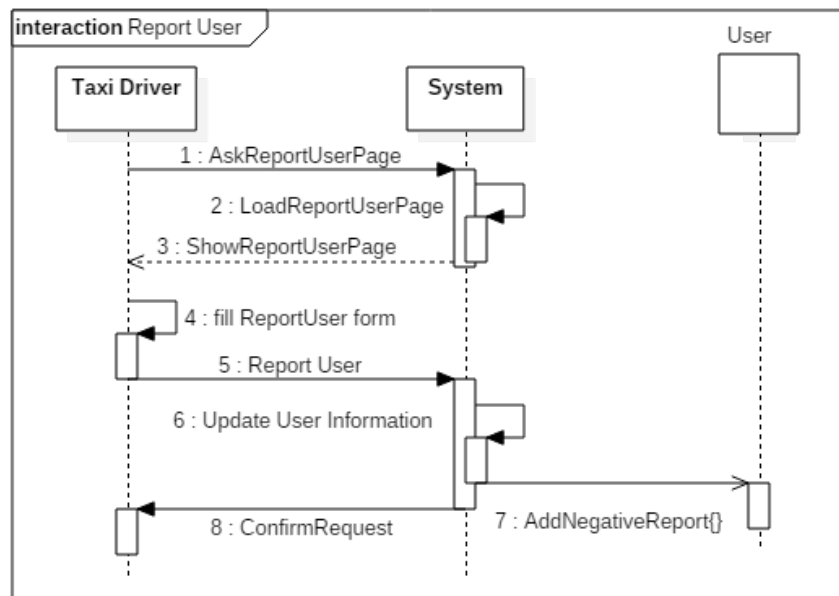
2.5 Report Taxi

Actors	Passenger
Preconditions	
Execution Flow	<ol style="list-style-type: none">1. The Passenger request the Report Taxi page2. The System elaborate the request and ask to the Passenger the report information3. The Passenger fill the form and submit the report4. The System check the data obtained5. The System update the Taxi Driver informations6. The System notify to the Passenger the successful of the operation
Postconditions	The Taxi Driver is reported by the current Passenger
Exceptions	The Passenger provides wrong informations in the report form



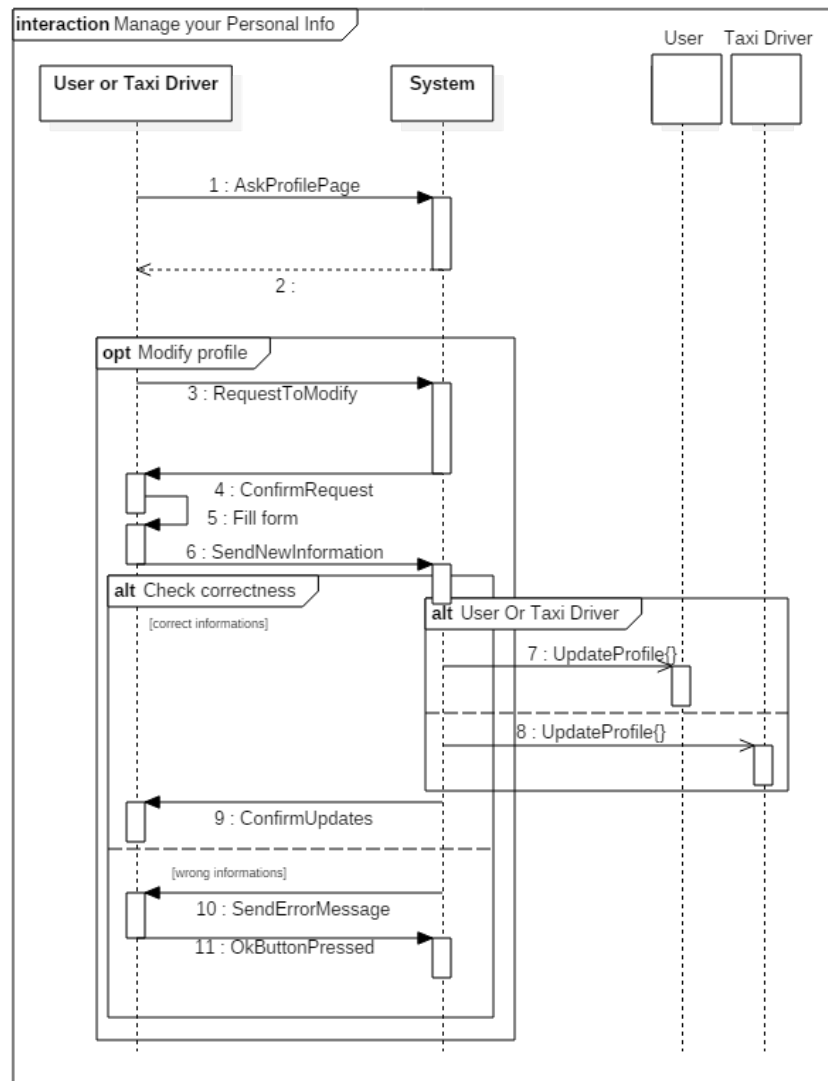
2.6 Report User

Actors	Taxi Driver
Preconditions	The Taxi Driver should had carried the User past 24 hours
Execution Flow	<ol style="list-style-type: none"> 1. The Taxi Driver request the Report User page 2. The System elaborate the request and ask to the Taxi Driver the report information 3. The Taxi Driver fill the form and submit the report 4. The System check the data obtained 5. The System update the User informations 6. The System notify to the Taxi Driver the successful of the operation
Postconditions	The User is reported by the Taxi Driver
Exceptions	The Taxi Driver provides wrong informations in the report form



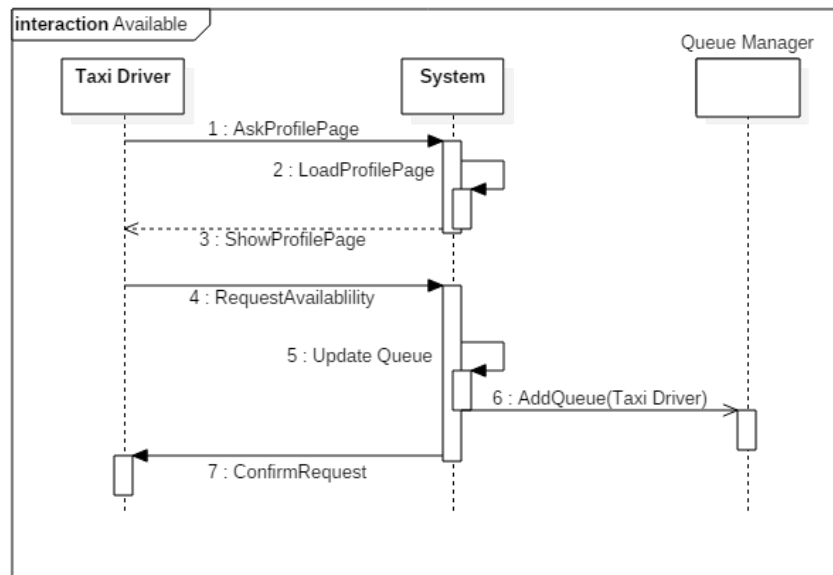
2.7 Manage Personal Informations

Actors	User or Taxi Driver
Preconditions	
Execution Flow	<ol style="list-style-type: none">1. The User (or Taxi Driver) request the User profile page2. The System returns the personal informations of the User (or Taxi Driver)3. The User (or Taxi Driver) can request the edit of the profile4. The System return the editable informations of the profile5. The User (or Taxi Driver) can edit those data and send the changes to the System6. The System check the correctness of the new Informations7. If the informations are correct send the Change Confirm to the User (or Taxi Driver), otherwise send back an error message
Postconditions	If the User request a modify profile and submit correct informations the Profile is changed
Exceptions	The User provides wrong informations



2.8 Available

Actors	Taxi Driver
Preconditions	
Execution Flow	<ol style="list-style-type: none"> 1. The Taxi Driver request the Taxi profile page 2. The System returns the personal informations of the Taxi 3. The Taxi Driver notify the availability to the System 4. The System update the local queue 5. The System confirm the request to the Taxi Driver
Postconditions	The Taxi Driver is now Available
Exceptions	<ul style="list-style-type: none"> • The Taxi Driver is located in a invalid zone • The Taxi Driver is carrying a Passenger • The Taxi Driver is yet available



2.9 Notify Problem

Actors	Taxi Driver
Preconditions	The Taxi is available
Execution Flow	<ol style="list-style-type: none">1. The Taxi Driver request the Report Problem page2. The System returns the page of the Report requiring problem informations3. The Taxi Driver fill the form and send the information4. The Taxi Driver can request another Taxi for the User who is carrying (if is carrying one)5. If the Taxi Driver request another Taxi the System looks for a available Taxi Driver6. If exist an available Taxi change the carrier of the User with the new Taxi Driver and send him, otherwise notify the unavailability7. The System return the success of the operation
Postconditions	The problem is submitted into the System
Exceptions	<ul style="list-style-type: none">• The Taxi Driver is located in a invalid zone• The Taxi Driver fill the form with wrong informations

