Use cases

Visitor registration

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| Actors | Visitor |
| Goals | [G1] |
| Input conditions | No entry conditions |
| Events flow | 1. The Visitor clicks on the “Sign in” button on the home page to start the registration process. 2. The Visitor fills all mandatory fields. 3. The Visitor clicks on the “Confirm” button. 4. The system saves the data. 5. The system sends a SMS to the new User with the password. |
| Output conditions | The Visitor ends the registration process successfully and become a new User. From now on he/she can log in to the application providing his/her credentials. |
| Exceptions | 1. The Visitor is already registered. 2. The Visitor inputs incorrect data in one or more mandatory fields. 3. The Visitor takes a username that has already been associated with another User. 4. The Visitor chooses an email that has already been in the system.   All exceptions are handled with notifying the issue to the Visitor and taking back to the point 2 of Events Flow. |

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| Actors | User |
| Goals | [G1] |
| Input conditions | The User is on the home page. |
| Events flow | 1. The User inputs his/her credentials into the “Username” and “Password” fields 2. The User clicks on the “Log in” button to get access. 3. The system redirects the User to his/her personal area. |
| Output conditions | The User gets access to his/her personal area successfully. |
| Exceptions | 1. The User inputs invalid Username. 2. The User inputs invalid Password.   All exceptions are handled with notifying the issue to the Visitor and taking back to the point 2 of Events Flow. |

\item (G02): The system allows User to set his/her route inside a city or a region

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| Actors | Client |
| Goals | [G2] |
| Input conditions | The client has already logged in. |
| Events flow | 1. The Client sets up the initial point using GPS localization. 2. The Client sets up the arrival point using GPS localization or specified address. 3. The Client checks if his/her current position and the arrival point has been correctly defined. 4. The Client clicks on the “Confirm” button. 5. The system builds the route. 6. The system offers the Client the ways in order of increasing their length. |
| Output conditions | The Client gets the set of routes to reach his/her destination. |
| Exceptions | 1. GPS is out of work. 2. The Client inputs the coordinates of initial and arrival point in different regions. 3. The Client’s current position cannot be defined correctly. 4. It’s impossible to build the route inside the city/region.     All exceptions are handled with notifying the issue to the Client and taking back to the point 1 of Events Flow. |

\item (G03): The system allows a User to choose a kind of transport among pre-defined travel means according to his/her preferences

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| Actors | User |
| Goals | [G3] |
| Input conditions | The User has the set of routes to reach his/her destination. |
| Events flow | 1. The User puts flags near his/her preferable travel means. 2. The User clicks on the “Confirm” button to save his/her choice. 3. If one of the chosen option is car, the system suggests the user to input the data of his/her driving license for the future using. 4. The system shows the User the list of available routes according to   his/her preferences |
| Output conditions | The User gets the set of the preferable routes |
| Exceptions | 1. There is no User’s preferable transport.   This exception is handled redirecting the User to the page of Technical support. |

\item (G04): Every user can decide the range of time to reserve for breaks.

\item (G10): The system must provide a way to permit to a single user to buy a ticket for public transports.

\item (G13): The system must avoid overlaps in user's scheduled travels.