| **ID** | **User Requirement Statements** | **BR** | **CI** | **ST** |
| --- | --- | --- | --- | --- |
| **User Role** | **Student** |  |  |  |
| **Goal U1** | **Registration** |  |  |  |
| U1.1 | User shall be able to register, create profile and login to the application. |  |  |  |
| U1.1F1 | User interface shall be menu driven. |  |  |  |
| U1.1F2 | User inputs shall be validated with customized errors. |  |  |  |
| U1.1F3 | NUID shall be validated against those registered with the university and Northeastern University Police Department. |  |  |  |
| U1.1F4 | Suggestions/Prompts shall be provided during user entry of destination address. |  |  |  |
| U1.1F5 | User id shall not be duplicated and password shall be validated against the set standards at the time of creation. |  |  |  |
| U1.1F6 | User’s address shall be auto populated from the university database against matched NUID. |  |  |  |
| **Goal U2** | **Navigation** |  |  |  |
| U2.1 | User shall access Geo Maps for real time tracking and address navigation. |  |  |  |
| U2.1F1 | User shall track real time movement of RedEye shuttle. |  |  |  |
| U2.1F2 | User’s location shall be picked up from location on the mobile device. |  |  |  |
| U2.1F3 | Data shall be cached for ease of use and time-efficient access. |  |  |  |
| U2.1F4 | User should be able to zoom in and out while navigating the map |  |  |  |
| U2.1F5 | User shall be able to set up pick up and drop points using the map |  |  |  |
| U2.1F6 | User shall be able to navigate to the desired locations using the map |  |  |  |
| **Goal U3** | **Account Management** |  |  |  |
| U3.1 | User shall have the ability to update/reset login and personal information |  |  |  |
| U3.1F1 | User shall be able to update his personal details after profile creation. |  |  |  |
| U3.1F2 | User shall be able to reset login credentials. |  |  |  |
| **Goal U4** | **Outgoing requests** |  |  |  |
| U4.1 | User can request for RedEye service through the interface. |  |  |  |
| U4.1F1 | User can enter destination address and raise a request for RedEye service. |  |  |  |
| U4.1F2 | If address is not within 1.5 mile radius, request is automatically rejected and user shall be prompted to enter another address. |  |  |  |
| **User Role** | **Driver** |  |  |  |
| **Goal U5** | **Route Computation and Navigation** |  |  |  |
| U5.1 | User shall have feature of route selection. |  |  |  |
| U5.1F1 | User shall be able to select the fastest route amongst the list of available routes. |  |  |  |
| U5.1F2 | User shall be notified of any route disruption. |  |  |  |
| U5.1F3 | User shall be notified of the estimated time of arrival at each destination. |  |  |  |
| **Goal U6** | **SOS Feature** |  |  |  |
| U6.1 | User shall have the ability to call for immediate help and support. |  |  |  |
| U6.1F1 | User shall have one-click “call-for-help” feature for any roadside assistance. |  |  |  |
| **User Role** | **NUPD Staff/Admin** |  |  |  |
| **Goal U7** | **Access to Student Database** |  |  |  |
| U7.1 | User shall have the ability to access Northeastern University’s student database. |  |  |  |
| U7.1F1 | User shall have read-only access to Northeastern University’s Student database with respect to address and immediate contact information alone. |  |  |  |
| **Goal U8** | **Outage Notice** |  |  |  |
| U8.1 | User shall have the ability to publish notices on outages as and when required. |  |  |  |
| U8.1F1 | User shall push notifications on unavailability or additional services that will show up as “Alerts”. |  |  |  |
| **Goal U9** | **Processing Requests** |  |  |  |
| U9.1 | User shall have the ability to process incoming requests |  |  |  |
| U9.1F1 | User shall be able to accept/reject incoming requests. |  |  |  |
| **Goal U10** | **Track Vehicles** |  |  |  |
| U10.1 | User shall have the ability to track the shuttle vehicles. |  |  |  |
| U10.1F1 | User shall be able to track available vehicles offering shuttle services on Map. |  |  |  |
| U10.1F2 | User shall get customized alerts based on what is being tracked. |  |  |  |