Functional Requirements

- The web application shall use OpenStreetMap as the base to depict locations of interest. Priority 1
- 2. The web application shall have the ability to be launched from any web browser. Priority 1
- 3. The web application shall enable the user to enter the desired area for which they want to search for a gas station. Priority 1
- 4. The web application shall have an option that takes current location as the desired location. Priority 1
- 5. The web application should be able to detect continuously the current position. Priority 1
- 6. The web application shall give the user an idea of his location by showing a "You are here" label that clearly indicates where he/she is currently at. Priority 1
- 7. The web application shall let the user search for the type of gas station he/she is interested in. Priority 1
- 8. The web application shall present the exact location of the closest gas station of choice after selecting the appropriate result from the search results. Priority 1
- 9. The web application shall show the directions to the location with various routes the user can take. Priority 1
- 10. The web application should provide an auto complete feature that guesses the search terms (name of the gas station, gas type etc.) being typed by the user. Priority 1
- 11. The web application shall generate a route between the detected position of the user and the desired end destination of the gas station according to the shortest path. Priority 1
- 12. The web application should be able to recognize when the user is approaching the desired gas station area. Priority 1

Nonfunctional Requirements

- 1. The web application shall only support users whose device is turned on, has Internet connection and GPS capability.
- 2. The web application shall run within the Chrome browser on Android 6.0+ and Safari Mobile browser on iOS 12.2+. Priority 2
- The web application shall provide all features to desktop as well as mobile devices.
 Priority 1
- 4. The web application shall support users who have 0.5 Mbits/sec upload speed. Priority 1
- 5. The web application shall operate with a preference of the English language. Priority
- 6. The web application's interface shall be responsive and adapt to screen resolution from 480x800 to 1920x1080. Priority 1
- 7. The web application shall respond in less than guarter a second Priority 1
- The web application shall be readily used by all groups of users, even those with little training in information technology, after a short introduction of 10 minutes. Priority 1