"Ethics Principles" and "Software Quality Characteristics" for Locate a Socket

Ethics Principles:

1. Privacy and Data Protection: User location data and personal information should not be disclose and should be handle very securely.
2. Security: There should be high level security to restrict the unauthorised access to user information and data.
3. Transparency: There should be information about how the data of user will be stored, used and whether it will be transferred to third parties or not
4. User autonomy: There should be option to choice for user to set their preference to which data to share and their personal information.
5. Accuracy: There should be accurate information about the location of the station and the accurate information.
6. Accountability: There should be responsibility for software failures and maintenance should be done with proper methods.
7. Accessibility: Design of the application should be accessible to every users even with disabilities.
8. Fairness: Service of the application should be available to everyone without any discrimination.

Software Quality Characteristics:

1. Functionality: Application must provide accurate and real time data of the charging station.
2. Reliability: There should be minimum downtime for application.
3. Usability: There should be increased design for navigation and usage.
4. Performance: For high user traffic there should be quick response and high level performance instead of traffic.
5. Maintenance: Update of the application should be easy and according to the bug that user faces on application.
6. Security: high level encryption and multi factor authentication should be use for user security and data protection
7. Portability: Application should be worked without any device dependency whether it is mobile, web or smart device.
8. Scalability: System should be able to handle all user traffic and data load.
9. Reusability: Application code should be clean and easy to understand so that developers can use the code.
10. Interoperability: System should be able to work with third party services like Google maps, and Payment companies.