**FUNCTIONAL REQUIREMENTS**

**Priority 1**

1. All users shall be able to search for Reports by zip code.
2. All users shall be able to search for Reports by Park name.
3. All users shall be able to see the status of submitted Reports.
4. All users shall be able to view a park’s location through Google Maps.
5. All users should be able to select a park by viewing the park’s location through Google Maps.
6. Unregistered Users shall be allowed to fill out a Report, but must register to submit the report.
7. Registered Users shall be able to post images when submitting an environmental incident.
8. Registered Users shall be able to log in using a username and password.
9. City Users shall be able to view all Reports submitted by users.
10. City Users and Admins shall be able to view user information attached to submitted Reports.
11. City Users shall be able to adjust the Status of a submitted Report to received, duplicate or undesired depending on the content of the submitted Reported.
12. Admins shall be able to delete submitted Reports.
13. Admins shall not be able to edit submitted Reports.
14. Admins shall be able to deactivate Registered Users’ accounts.

**Priority 2**

1. Registered Users shall be able to reset their password from the sign-in screen.
2. Registered Users shall be able to save up to five Reports to be displayed while logged in.
3. Registered Users shall be able to place a marker on a Google Map to designate the location of an environmental incident

**Priority 3**

1. All users shall be able to view Reports per a zip code sourced from Google maps.
2. All users shall be able to locate parks through markers placed through Google Maps
3. Registered Users shall be able to see markers corresponding to environmental incidents placed by other users.
4. City Users shall be able to contact Registered Users directly when looking at a submitted environmental incident.

**NON-FUNCTIONAL REQUIREMENTS**

1. Application shall be developed, tested and deployed using tools and servers approved by Class CTO and as agreed in M0 (some may be provided in the class, some may be chosen by the student team but all tools and servers have to be approved by class CTO).
2. Application shall be optimized for standard desktop/laptop browsers e.g. must render correctly on the two latest versions of all major browsers: Mozilla, Safari, Chrome.
3. Application shall have responsive UI code so it can be adequately rendered on mobile devices but no mobile native app is to be developed
4. Data shall be stored in the team’s chosen database technology on the team’s deployment server.
5. Application shall be media rich (at minimum contain images and maps)
6. No more than 50 concurrent users shall be accessing the application at any time
7. Privacy of users shall be protected and all privacy policies will be appropriately communicated to the users.
8. The language used shall be English.
9. Application shall be very easy to use and intuitive.
10. Google analytics shall be added
11. No e-mail clients shall be allowed
12. Pay functionality, if any (e.g. paying for goods and services) shall not be implemented nor simulated.
13. Site security: basic best practices shall be applied (as covered in the class)
14. Modern SE processes and practices shall be used as specified in the class, including collaborative and continuous SW development
15. The website shall prominently display the following exact text on all pages *"SFSU Software Engineering Project, Spring 2018. For Demonstration Only”* at the top of the WWW page. (Important so as to not confuse this with a real application).