**Project Name**: Riverbook (River Information System)

**Objective**: To create an Information System which will collect different water-bodies’ data and build useful information out of it, which will be used in addressing different issues of water-bodies in India.

**Current Scope**: In first phase only rivers’ data will be collected and processed. Further it will be extended for streams, ponds, lakes, wells etc.

**Methodology**:

1. An application where users can login and add river’s data. River’s data will include following fields:
2. Name of the river
3. Location (Manually or Auto detected from google maps)
4. Issues of that river, whichever are applicable – Exploitation, Encroachment, Pollution
5. Severity of each of the above mentioned issue – low, medium, high
6. Description of each of above mentioned issue
7. User can tag rivers/ water bodies of his interest and see notifications if there are updates
8. User can tag other users
9. This data will be processed to create meaningful categorization as per the issue and severity of the issue.
10. Overall status of the river/water body will be decided from number of responses received for that particular river.
11. Any time, user will be able to see status of all rivers’ information available in application till that time.
12. Following are the color codes used to show the status of river
13. Green – Low severity of issues (Can be changed in further enhancements - low or no issue)
14. Orange – Medium severity of issues
15. Red – High severity of issues

**Technologies**: Angularjs, bootstrap, CSS3, JSON

**Platform**: This project needs to be deployed on Server and with SSL certificate on HTTPS. This is required because we need to access and manage different files for users and rivers. Also we need to access user location.