

## Project Plan Team 208

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Total number of sprints available: 6 (2-week sprint)

**Sprint 1:** Based on the scope and requirement of the project and the constrained timeline, we will spend this sprint on requirement gathering from client, requirement analysis (brainstorming the requirements), creating an application flow and target language. Alongside we will be working on UI mock-ups and application documentation including UML diagrams and use cases.

**Deliverables:** UI Wireframes and Application flow

**Sprint 2:** After accommodating the changes from the client review on Wireframes, we will research, discuss and finalize about the software architecture, alongside work on finalizing UI mockups. We will also be working on application documentation including class and sequence diagrams.

**Deliverables:** UI mockups.

**Sprint 3:** Accommodate changes suggested by the client review on the UI mockups. We will create the ugly Front-End pages (without style), add the login and register API on the Back End. We will also add the upload file API and will start working on the implementation of the Algorithm and will do the Unit testing of the Source code.

**Deliverables:** Front end without the styling and project status update.

**Sprint 4:** In this sprint, we will work on bug fixes from unit testing of the previous code, compare feature along with this, we will add the email API, Generate Report API and Download API. We will also update the Algorithm to accommodate multiple files and integrate login, register API to Front-end. We will perform the unit testing of the source code.

**Deliverables:** APIs from backend

**Sprint 5:** Bug fixes from the Unit Testing in Sprint 4. Integrate all APIs except compare API to Front-end, we will perform rigorous Algorithm testing and beautify the Front-end to make it more user friendly. We will then integrate compare API to Front-End which will complete the integrating of all the APIs. We will perform system testing on the application.

**Deliverables:** Overview of applications and a demo of the application.

**Sprint 6:** Bug fixes from the system testing in the Sprint 5. We will perform User Acceptance Testing and will accommodate any changes suggested by the user and fix the bugs reported. After that, we will complete the documentation, presentation and bundle up the application for handling it over to the stakeholders.

**Deliverables:** Presentation and Demo.

## Project Approach

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Language	: Java
Algorithm	: AST generation/ String similarity comparison algorithms
Language for which system will be implemented	: Python
Framework	: Spring MVC
Deployment	: AWS /Heroku
Frontend	: React /Redux
Database	: MySQL(Relational Database)
Version Control	: GIT