

CSCE 606 SOFTWARE ENGINEERING - Iteration 0

Team & Roles:

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- Rajendra Thottempudi(Product Owner)

Project Links:

- [Github Link](#)
- [Pivotal Tracker](#)

Customer Meeting date/time/place:

Met with client Dr. Ritchey by emailing for a preferred time to meet and met in Dr. Ritchey office for 45 min to discuss the project.

Summary:

CodeJudge is a web based coding platform which supports both students and instructors. This is a legacy project there are some existing functionalities to support this on which we will develop further functionalities to enhance the existing CodeJude. Client described the requirement as a sort of online coding platform like Kattis and Leetcode with some additional functionalities to them.

Client specifically asked to add/ Improvements over existing project:

- Ability to add different kinds of tags to each problem.
- Sort and search functionalities by tags.
- Test Cases both visible and non visible[decided by instructor] to the user.
- Ability to add new test cases to problems by instructor both by clicking the add button and batch test cases addition(by a file upload).
- Ability to group students into classes and functionality to check statistics on a group.
- Instructors can create new groups and students can see/search available groups and request to join.
- Improve existing editor by adding text highlighters for code.
- Instructor can check student progress.

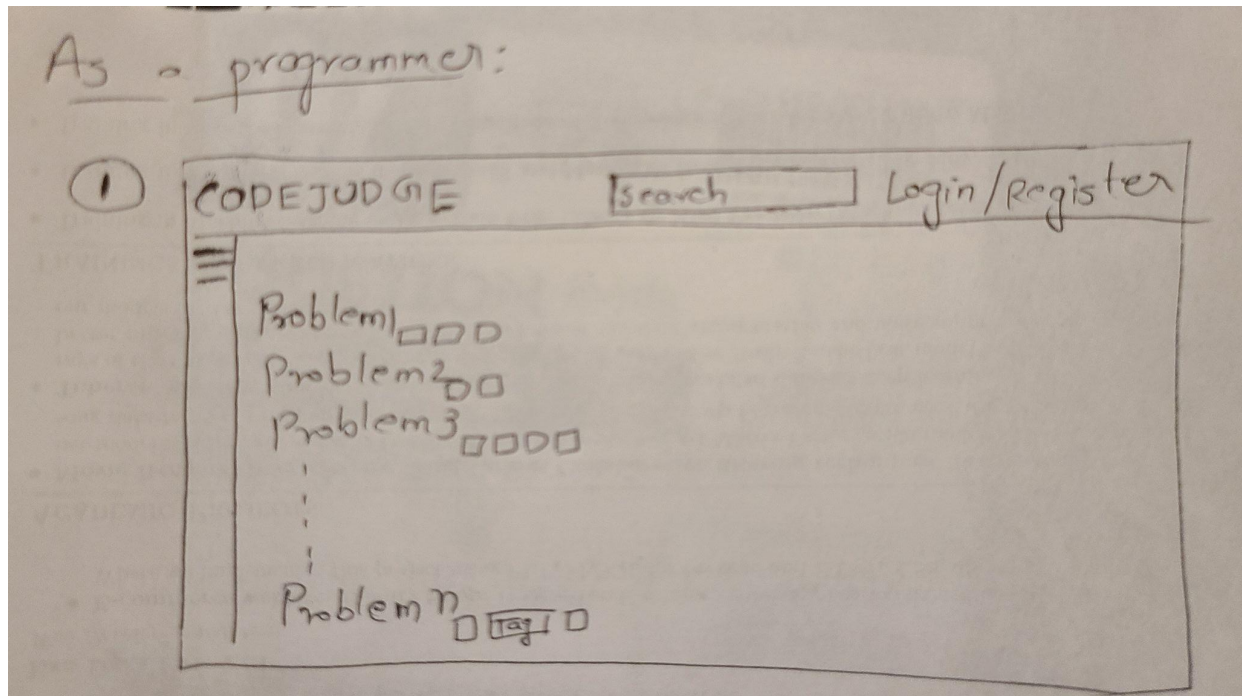
User Stories:

Created eight user stories depending upon client requirements each user story represents a feature which needs to be developed upon the existing code judge. All user stories are available in the pivotal tracker link in the project links section.

User Interfaces:

There are three user roles to the system as of now and lofi diagram to each user UI is depicted below:

- **Programmer/Student:**



②

CODEJUDGE

Problem:

Example test cases:

code editor:

language

upload

submit

- Instructor

As a Instructor

①

CODEJUDGE

Problems

Search

Login/Register

Add problem

update problem


Create group

edit group


view group

stats

① Create/edit group



CODEJUDGE	
Group name: <input type="text"/>	
Description: <input type="text"/>	
Add members: <div>Add by Email(s) seperated</div>	

② view group stats

CODEJUDGE	
Group: solved/unsolved: X/Y view individual student breakdown Assign new problem set Average group score: X	

- Admin:

As an admin (super admin)

① CODEJUDGE |  


problem 1

problem 2

⋮

Problem n

As a admin/Instructor.

CODEJUDGE 

Problem statement:

Name:

Test cases:

Tags:
Tag1, Tag2, Tag3 --- Tag n.