

# MOBILE JUDGE V9

**FIU**

School of Computing & Information Sciences

## Senior Project, 2017, Summer

### MobileJudge v9

Student: Mario Fidalgo, Florida International University  
Mentor: Masoud Sadjadi, Florida International University  
Instructor: Masoud Sadjadi, Florida International University

## ! PROBLEM

Students enrolled in Senior Project and VIP perform a showcase at the end of every semester to display their projects. The showcase give students the opportunity to demonstrate their abilities as software engineers.

Professionals from the industry are invited to attend the showcase to view the projects developed by the students. However, a software platform is required to manage all these task such as inviting judges, grading students, displaying showcase map, and gathering statistics of the showcase

## SOLUTION

Mobile Judge was developed in order to manage showcases from one centralized platform. The system automates the process of assigning students to judges who are attending the showcase.

The administrator can send mass emails using templates to invite judges, easily accept or reject student's grades, search any information with filters, view statistics, edit user's information, download reports of students/judges/grades, and much more.

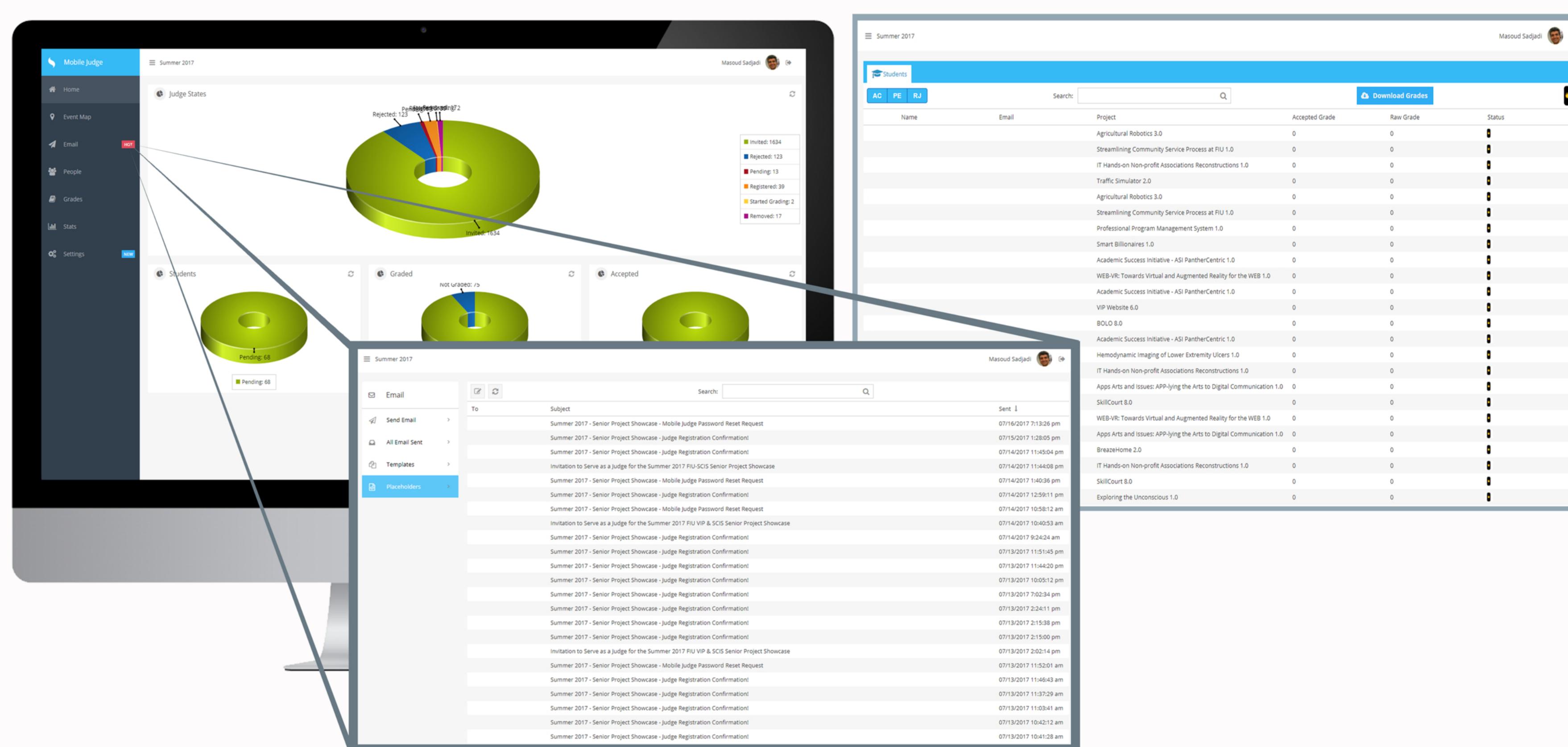
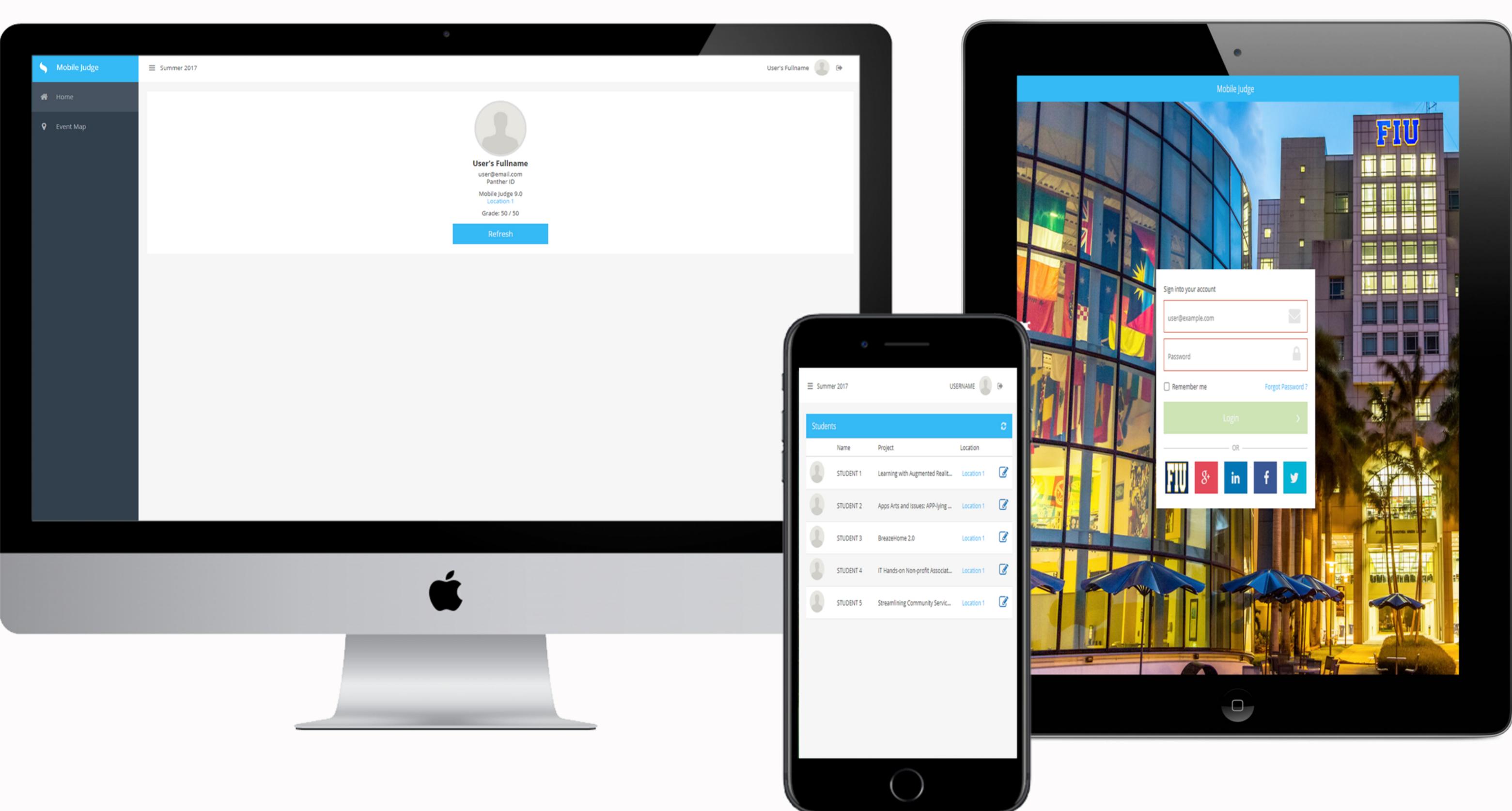


## CURRENT SYSTEM

Administrators can:

- ▶ Invite/Import Judges using CSV Template
- ▶ Download report of students, judges, and grades.
- ▶ Edit user's information such as name, email, project, etc.
- ▶ Change pending grades to accepted or rejected.
- ▶ Filter, sort, and search any information.
- ▶ Judges can grade and provide feedback, as well as look at the event map.
- ▶ Students can login to view their grade.

## SCREENSHOTS



## REQUIREMENTS

The contributions I made that were required for this version of Mobile Judge:

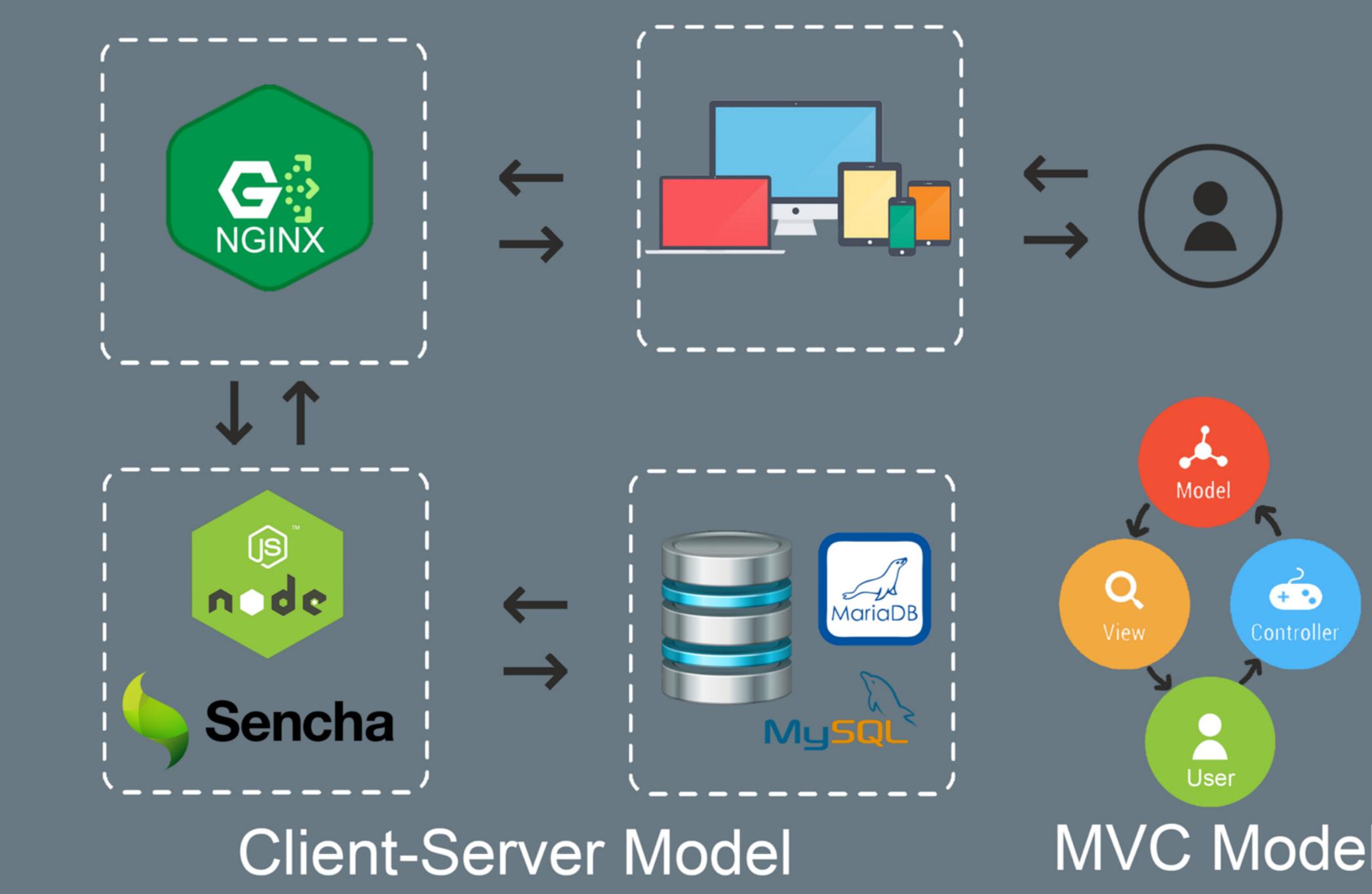
- ▶ Allow Students/Judges information editable
- ▶ Download Accepted Grades, Student Report, and Judges List.
- ▶ Student Sync functionality to work properly.
- ▶ Add Grades tab to view student's grades.
- ▶ Add accepted/pending/reject grade functions.
- ▶ Implement assigned Judge view for each student in the Grades section with grade per question.

## VERIFICATION

Selenium WebDriver and manual testing were used to verify our system

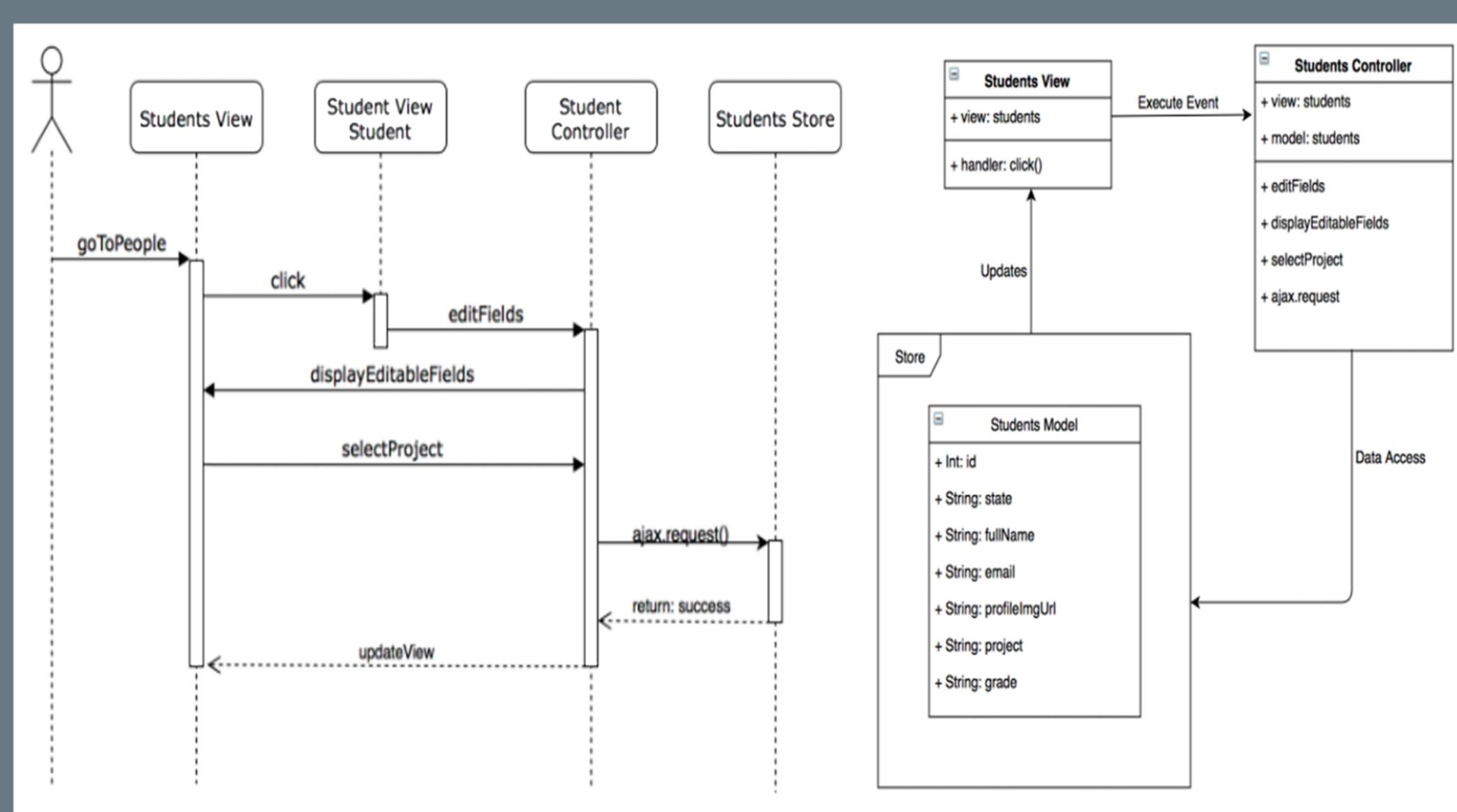
Test case ID: MJ-647-06	Test case ID: MJ-656-01
Description: Modifying all of the student's field information.	Description: Accept and reject student's pending grades
Precondition: Admin is logged in and currently viewing the students tab found in people side tab.	Precondition: Admin is logged in and currently viewing the students tab found in grades side tab.
Expected Results: All selected fields get modified and updated.	Expected Results: Student's grade gets calculated correctly in both states.
Actual Result: All selected fields got modified and updated.	Actual Result: Student's grade got calculated correctly in both states.
Status (Fail/Pass): Pass	Status (Fail/Pass): Pass

## SYSTEM DESIGN



## OBJECT DESIGN

Student's Project ComboBox Usecase Diagram and Class Diagram



## IMPLEMENTATION

- ▶ Sencha Framework was used for mobile support as well as cross browser support.
- ▶ Nginx was used as our server where we would run NodeJS and OAuth.
- ▶ MariaDB/MySQL was used for our database to hold all of the information.
- ▶ Node JS was used to run OAuth and Mobile Judge
- ▶ WebStorm was the coding environment used to develop Mobile Judge.

## SUMMARY

Mobile Judge is currently in version 9.0, and will continue to improve throughout the years to provide the best user experience possible for the upcoming showcases. This version was mainly focused on the backend for the use of the administrator to ease the workload required for managing the showcases. The software development cycle used allowed for the improvement of Mobile Judge to be as optimal as possible and provide a professional work experience.



## ACKNOWLEDGEMENT

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