

Project - CSCE 606 Project Assignment System

Team Members -

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Write a two-paragraph (max) summary of the main customer need and how the application meets it, including who the stakeholders are. Include links to the video, GitHub repo and Pivotal Tracker in the document.

Customer - Dr. Hank Walker (Instructor of CSCE 606 - Software Engineering)

Customer meeting date/time/place - By appointment with Dr. Walker.

The main customer need is to have a software system that allows the course instructor and TAs to manage and facilitate formation of teams, create and list all available projects, permit teams to provide their preferences for the listed projects, assign these projects to teams in accordance with their preferences, and to make pertinent stored information available to users who should have access to them. These users include the course instructor, the TA and the students who are taking the course.

The application supports this need through a website with a set of pages that allow for information to be entered, a backend that retrieves relevant information from a database, views to render the retrieved information to the user, and delineation of privileges between users who are admins and those who are not. Every user has an account that they use to log in to the website, and all operations that users can do on the site are associated with their account identity.

Application Objectives -

- Manage formation of teams, list all projects, permit team project ranking and perform team project assignment.

Stakeholders -

- Professor (Admin)
- Students of CSCE 606 (Current)

Github Link (Give the instructor and TAs access as collaborators) -
https://github.com/harishk1908/Project_Collection_and_Assignment.git

Pivotal Tracker (Give access as “observers” to the instructor and TAs) -
<https://www.pivotaltracker.com/n/projects/2436883>

User stories: Create at least 4 user stories on 3x5 cards. These should be in the format shown in Chapter 7

TEMPLATE

Feature Name

- As a [kind of stakeholder],
- So that [I can achieve some goal],
- I want to [do some task]

Feature: Reset Password

As a student

So that I have an alternative way to login when I forget my password.

I want to change my password when I forget it.

Feature: Search and Sort Students

As an admin

So that I can find/edit information of a particular student

I want to easily search for a student’s information from the database and sort any results thus obtained.

Feature: Upload student roster and generate user accounts that must be claimed

As an admin

So that I can match students’ credentials to the ones found on eCampus/Howdy

I want to have a common roster between the website and eCampus to make grading easy.

Feature: Semester Migration (Delete old users/teams and migrate GitHub links to next semester)

As an admin

So that I can reduce the time entering legacy project information.

I want to transfer information from previous semester and want to delete users so my database does not grow too big.

Feature: Having multiple admins and being able to grant admin privileges to users

As an admin

So that I can give admin privileges to select students

I want to have multiple admins so that I can share admin work among TAs

Other features/bugs to be fixed -

- Keep teams in alphabetical order
- If a user adds an account, requires first and last name and UIN, and check that the names are capitalized, and the UIN is XXX00YYYY format.
- You cannot delete a team if there are users.
- When you delete a user without a team, the admin is redirected to the list of all users, not the list of users without a team
- When you edit a team, the admin is redirected back to the list of all teams, not the page of the team just edited
- A team with an assigned project cannot be deleted.

User interface: Create lo-fi UI mockups and storyboards for at least 4 user stories. Submit photos of these in your document. Don't redraw them in a drawing package.

New Feature - Search and Sort Students

ALL USERS

Sort by

Search

Records per page

UIN	NAME	TEAM	OPTIONS
1234567	Foo Bar	Project 1	Edit/Delete
8620452	Hello World	Project 2	Edit/Delete
72312347	John Smith	Project 1	Edit/Delete
0000000	Calvin Klein	Project 1	Edit/Delete
45678912	Henry Ford	Project 2	Edit/Delete
57921346	Kanye West	Project 3	Edit/Delete
71234567	Chris Nolan	Project 4	Edit/Delete
66443210	Harry Styles	Project 4	Edit/Delete

[Download Roster](#)

Feature - Password Reset

RESET PASSWORD

Please enter your email address to request a password reset.

EMAIL ADDRESS

New Feature - Semester Migration

SEMESTER MIGRATION

Name of Next Semester

Select the projects required to be transferred

<input type="checkbox"/>	Cat Project	Github	Heroku	Edit
<input type="checkbox"/>	VetMed project	Github	Github	Edit
<input type="checkbox"/>	Solar Project	Github	Github	Edit
<input type="checkbox"/>	Robot Project	Github	Github	Edit

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Delete all users

DELETE ALL USERS

Enter password to delete all students

Password

DELETE

New Feature - Grant Admin Privileges

GRANT ADMIN PRIVILEGES

Current List of Admins

Hank Walker	Edit / Delete
TA Smith	Edit / Delete
TA Don	Edit / Delete

Add new admin

GRANT ADMIN PRIVILEGES

Search user

John Taylor	View / Add as admin
Johnny Bravo	View / Add as admin

For legacy projects: write a one-page document discussing your overall strategy for learning/improving the prior code. Also, if any of your user stories are improved/replacement stories for what was done in the past, please note that in this document.

Legacy code resides at - https://github.com/PuneetKohli/Project_Collection_and_Assignment.git
Our plan is to create a development branch which will later be merged after extensive testing. This devo branch allows our team to make incremental changes first and get hands-on experience on the existing system. We will then move on to bigger tasks after the team has a good grasp on how the existing system is structured. We are already looking at the different pages on the existing system as admins and learning how it is all organized.

User Stories that are improved from what was done in the past -

- 1) A password reset link currently exists but does not work. The admin currently has privileges to change the password which the student can use for future logins, in case the student forgets the password. Our solution is to ask the student to enter his/her email address upon validating which they will receive a link to change the password. Alternatively, a security question can be added during user registration which can be used for password reset.

Other Problems that we will attempt to address -

- 1) Currently the admin cannot preselect a project for a team.
- 2) The admin cannot see the project selections each team has made. The website only shows that the team has made their selection.
- 3) Currently, the admin cannot change users' team membership. Under the current version of the project, the admin has to purge information of all members that want to switch teams and create new accounts.
- 4) Project priority is not considered during project assignment.
- 5) Semester Migration
 - a) Select from past projects to make them active in the current semester
 - b) Display corresponding links from past teams.
 - c) Flush all of past teams/members (so database does not get too large)
 - d) Each team/user (besides admin) should have a semester attached to them
- 6) Remove the option of using NetID to login since this feature is not feasible.
- 7) Create a check so that the student's information matches the roster (First Name, Last Name, UIN) from eCampus for grading purposes. A way to implement this is by creating user accounts using information from roster which students can later claim and change passwords.

- 8) Currently the download excel feature just downloads the first page of records. The code needs to be modified to dump all users and related projects onto a spreadsheet.