

# **Project Showcase Complete**

## **Documentation**

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Thursdays 10pm-12am

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# **High Level Requirements**

## **Main Functionality**

We need to create a web interface where student users upload their academic and personal projects, and company users can browse through anonymous versions of these projects. Companies will only be able to see the project details, but no details about the student. The application should combat the bias that is present in hiring situations. Companies can request a student's contact information and only upon the student accepting the request will any personal information be disclosed. Non-authenticated companies will not be able to request student contact information.

## **Project UI**

The main page of the website will be a list of all projects posted by students. Users will be able to scroll through this list. Clicking on a project will redirect them to a more detailed version of the project which could include screenshots and a description of how the project was made and what technologies were used. Users will be able to download the code (according to student's permission) of the project (for example a .zip file). If the project is a website that can be accessed on the internet, the link would be included. The list of projects can be filtered and sorted by date and project type. Another tab on the web page will link to a "My Project" page. Students will see the projects they've uploaded, and companies will see projects they've saved or favorited.

## **Accounts and Registration**

The users should register by official school/company email and login with known usernames and passwords. Authenticated company users will have the ability to contact students whose projects they like. However, non-authenticated company users would only be able to see the projects, without the ability to contact students. The program will store information on student name, major, and email. However, unless a student accepts a company's request, this information will be kept anonymous. Company users will be able to see what projects they have requested info for and favorite projects. Companies will also be able to specify the project categories they prefer. Student users will be able to add/delete projects on their account.

## **Notifications**

The program should be able to send notifications to both students and companies. Students should receive notifications when a company contacts them. Students should be free to add any label that fits their projects. A company should receive notifications when a student uploads a project in a category that company is interested in (i.e. Virtual Reality, Artificial Intelligence, Hardware, etc). If a student accepts the company's request, then the

student's identity will be revealed to the company, and the company will receive the student's contact information.

## **Uploading Projects**

Through a form, students should be able to upload project files and project screenshots and write a description of their project. This form should also include the type of project. The form will also check for duplicate projects by checking the database before final submission to ensure that students don't upload the same project multiple times.

# **Technical Specifications**

### **Home Page**

- Upon entering the site url the user will go to the home/landing page.
- Page will display previews/screenshots of projects (with no way to expand project view or contact the students who uploaded those projects)
- Contains menu/navigation bar that has buttons to login, a link to a create an account page, and continue as guest button. Guest users have no special functionality and will be unable to contact students or view projects on their detail pages. Aside from these limitations, they will still be able to browse through the main project viewing page.
- Contains an “about” section which summarizes our platform, how it works etc.
- Contains a “team” section which summarizes information about our 201 project team, i.e name, interests etc.
- Contains a “faq” section which lists common FAQ’s about our platform

### **Login Page**

- Users will have the ability to enter a known username and password and press a login button
- The username and password will then be verified on the backend
  - If the username and password match, the user will be redirected to the main Project Viewing Page, which will be tailored to whether the user is a student, or a recruiter.

### **Create an account Page for Students**

- User has to input full name, email, school, class standing, major
- Once the student creates an account, the user will be redirected to the Project Viewing Page

### **Create an account Page for Recruiters**

- User has to input company name, recruiter full name, recruiter username, password, email, and select interested project categories

- Once the recruiter creates an account, the user will be redirected to the Project Viewing Page

## **Project Viewing Page**

### *For both Recruiters and Students*

- List of project previews
  - A clickable “project preview” will include a screenshot of the project, project title, and brief project name (similar to what devpost project previews look like).
- A search bar where you can search and filter projects by keywords
- A logout button

### *For Recruiters*

- A toggle at the top of page which looks like: “All Projects | My Favorite Projects” which will update the list of projects shown on the page using an AJAX call
  - The list will be curated based on interests the recruiter specified will signing up, or projects recruiters have “starred” while viewing the site

### *For Guests*

- Clicking on the “continue as guest” button will direct users to the regular project viewing page.
- If guests click on a project, they will be prompted with a window that asks them to create an account
- The project viewing page will look identical to registered users apart from this prompt, and they will be able to browse through a list of projects normally. However, they will be unable to contact any students.

## **Account Settings**

### *For both Recruiters and Students*

- Update password
- Update contact information

### *For Recruiters*

- List of already contacted students
- List of saved projects
- List of students who have accepted contact requests

### *For Students*

- Student can upload a new project from here or delete existing projects
- There will be a list of the student’s uploaded projects
- List of contacted/matched recruiters

## **Individual Project Information Page**

### *For Recruiters and Students*

- Users will be able to see any uploaded material that student makes visible
- New projects must include project name, project description, optional link to files, optional link to code, and associated keywords

- A duplication check will be performed and a warning would display if the project has already been uploaded

*For Recruiters*

- There will be a button which says “contact the student”

### Datatable for Projects

- Database for Projects will include:
  - A Project table with the following columns:
    - Project ID
    - Project Name
    - Project Category
    - Project Author ID (Student ID)
    - Project Description
    - Main Project Preview Image ID
    - Keyword ID (for search purposes)
  - A Keyword table with the following columns:
    - Keyword ID
    - Keyword
  - A Image table with the following columns:
    - Image ID
    - Project ID
    - Image URL (from Google Drive)
  - A File table (for storing Code files) \*ONLY ZIP FILES\*
    - File ID
    - Project ID
    - File URL (from Google Drive)

### Datatable for User Information

- A student table with the following columns:
  - Student ID
  - Username
  - Password
  - Full Name
  - University Email
  - School
  - Major
  - Class Standing
  - Connected Recruiter IDs (Recruiter ID)
  - Uploaded Project IDs (Project ID)
- A recruiter table with the following columns:
  - Recruiter ID
  - Username
  - Password
  - Full Name

- Company Email
- Company Name
- Connected Student IDs (Student ID)
- Favorite Project IDs (Project ID)

### **Notification System**

- Recruiters will be able to click on “Connect with Him/Her!” button
- Students will receive notification email displaying “XXX Company is interested in your project, login to accept!”
  - Yes: the student’s email address will be sent to the recruiter, a pop-up notification will also display when recruiter opens the website
  - No: the student remains anonymous to the recruiter
- After successful connection, student’s information will be displayed on recruiter’s account page and vice versa

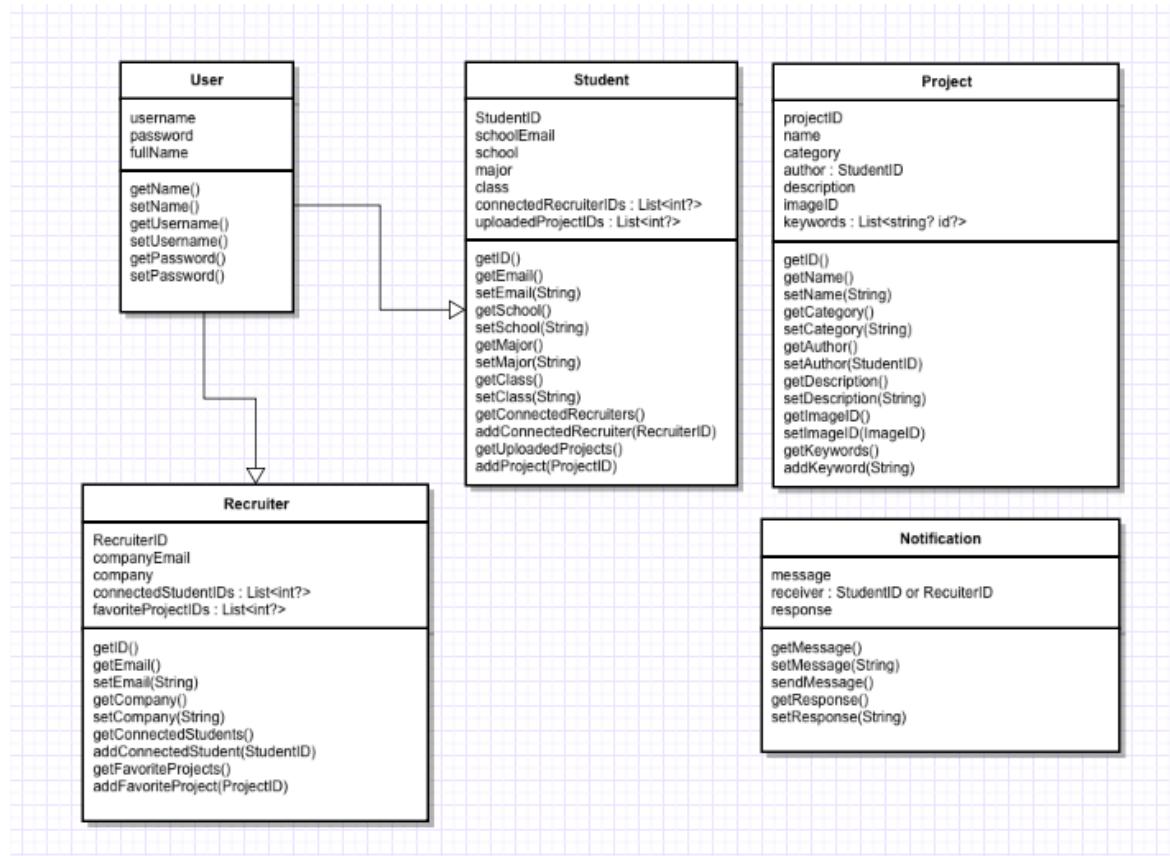
### **Tasks**

<b>Task Description</b>	<b>Estimated Time to Complete</b>
Documentation	8 hours
Creating Test Cases	8 hours
Home Page	6 hours
Menu Bar (viewed on all pages)	4 hours
Login Page	5 hours
Student Account Page	8 hours
Upload Project Form	4 hours
Recruiter Account Page	8 hours
List of Projects Viewing Page	6 hours
Sorting Projects	4 hours
Filtering Projects	4 hours
Individual Project Detail Page	4 hours

Student Account Settings	4 hours
Recruiter Account Settings	4 hours
Set up Database	8 hours
Notification System (Multithreading/Networking)	8 hours
Total Times	93 hours

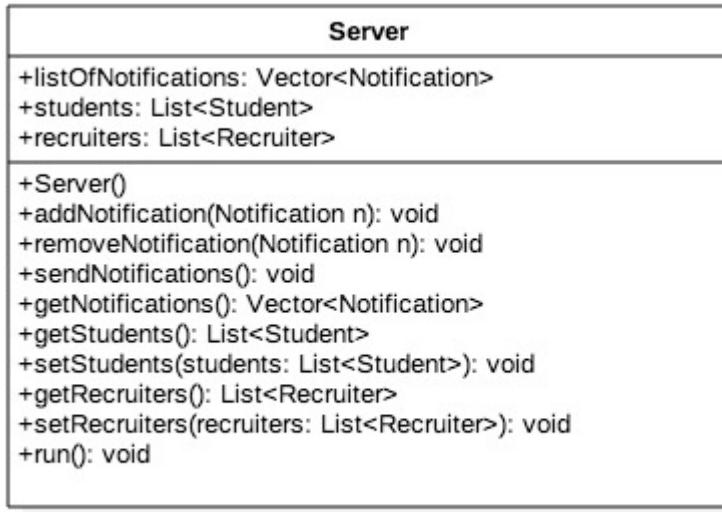
## Detailed Design

### Class Diagrams and Inheritance Hierarchy

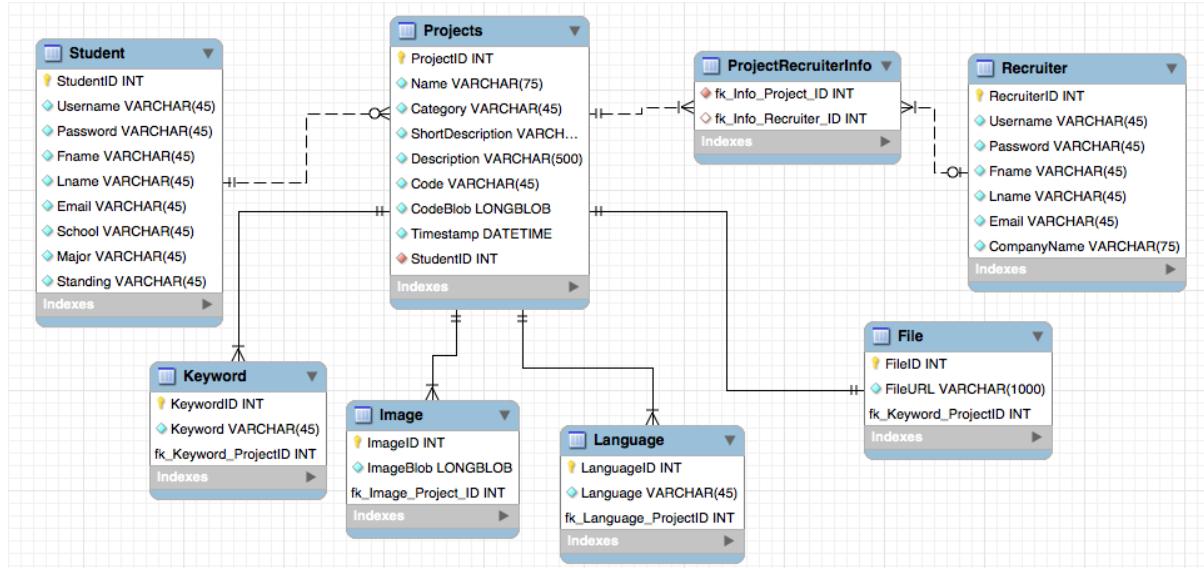


The User class will be abstract and both the Student and Recruiter classes will inherit from it. All member variables for Student, Recruiter, Project, and Notification are private, encapsulating these classes.

The Server class will handle the multithreading aspect of the project. Once called, the run() method will continuously check for new notifications and alert the corresponding student or recruiter.



## Database Schema



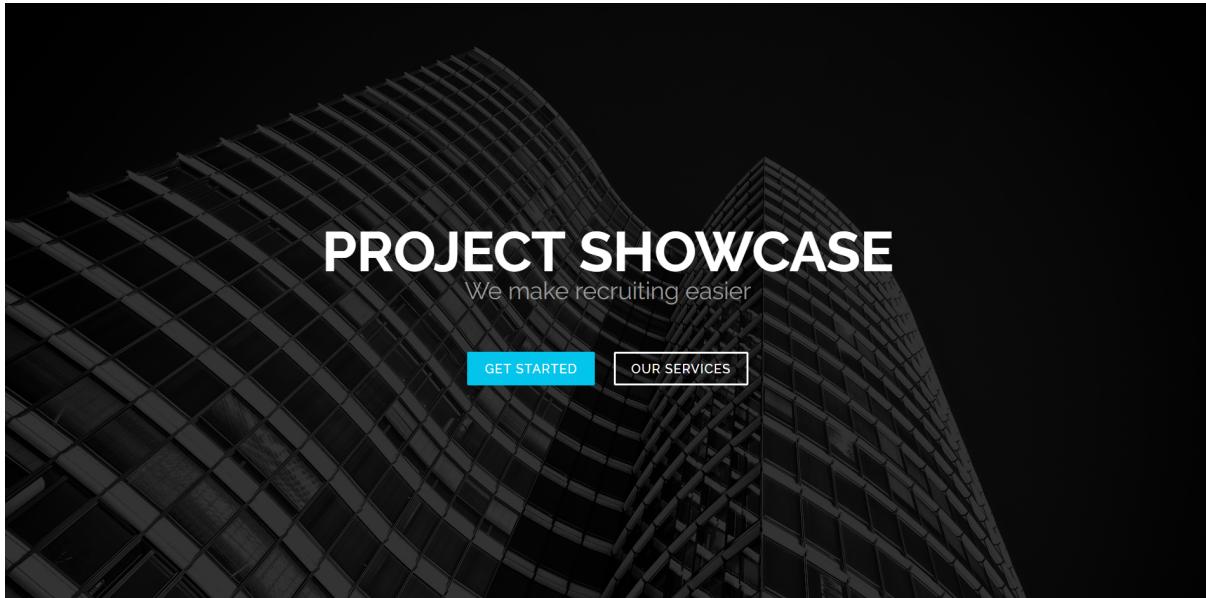
Additional Info:

- Script File is automated so any team member can recreate database if needed
- Schema Interpretation:
  - Student-Projects
    - Weak Relationship: A Student doesn't need to have Projects
    - A Student can have many Projects
    - A Project must have a Student
  - Projects-ProjectRecruiterInfo
    - Weak Relationship: A Project doesn't need to have a Recruiter
    - A Project can have many ProjectRecruiterInfo entities
    - A ProjectRecruiterInfo entity must have a Project
  - ProjectRecruiterInfo-Recruiter
    - Weak Relationship: A Recruiter doesn't need to have a Project
    - A Recruiter can have many ProjectRecruiterInfo entities

- A ProjectRecruiterInfo entity must have a Recruiter
- Project-Keyword
  - Strong Relationship: A Project must have a Keyword and a Keyword must have a Project
  - A Project can have many Keywords
  - Each Keyword must belong to at least one Project
- Project-Image
  - Strong Relationship: A Project must have an Image and an Image must have a Project
  - A Project can have many Images
  - Each Image must belong to at least one Project
- Project-File
  - Strong Relationship: A Project must have a File and a File must have a Project
  - A Project can only have one File (since we are storing zip file URLs)
  - A File must belong to one Project

## Gui Mockups

This is what the homepage looks like when the user inputs the url to our website into the browser:



The “Get Started” button links to the signup page, while the “Our Services” button takes the user down the “Our services” section of the homepage:

## OUR SERVICES

 PROJECT SHARING

Voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident

 SECURE PLATFORM

Minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat tarad limino ata

 EASY COMMUNICATION

Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur

 NEW CONNECTIONS

Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum

 COMPLETE TRANSPARENCY

At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque

 FOREVER FREE

Et harum quidem rerum facilis est et expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi

\*\*\*The text descriptions and icons will be updated, but this is the general design of the “Our Services” section

The homepage also includes the following sections: “About”, “Featured Projects” and “Team” and “Contact us”

## ABOUT US

### Combating the bias in current hiring practices

Studies have shown that sometimes even just your name on your resume can get in the way of you

landing your next dream job or internship. We created PROJECT SHOWCASE to combat such biases and

allow students to get recruited solely on the basis of their merit and ideas.

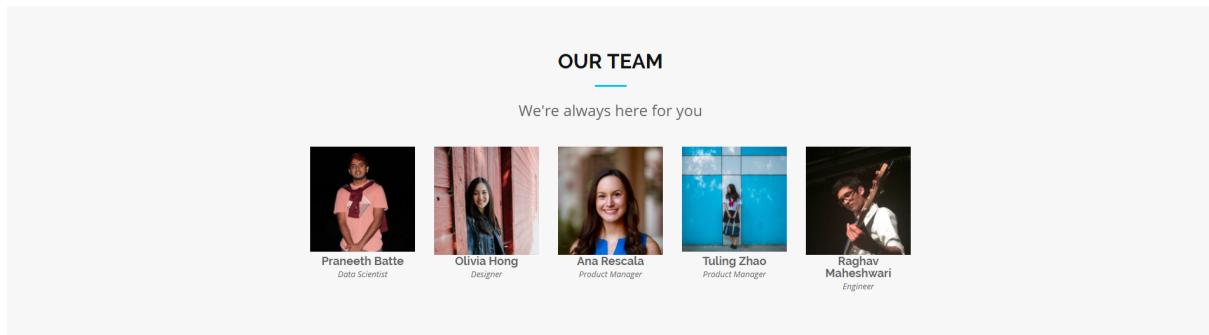
### “About Us” Section

## FEATURED PROJECTS

A showcase of current student talent on our platform:



“Featured Projects” Section where we display thumbnails of some of the student projects uploaded on our platform



*“Team” Section*

### CONTACT US

Still have questions? Reach out to us below!

📍 Salvatori Computer Science Center  
Los Angeles, CA 90089

✉️ info@example.com

📞 +1 00-WE-LOVE-CODING

Your Name

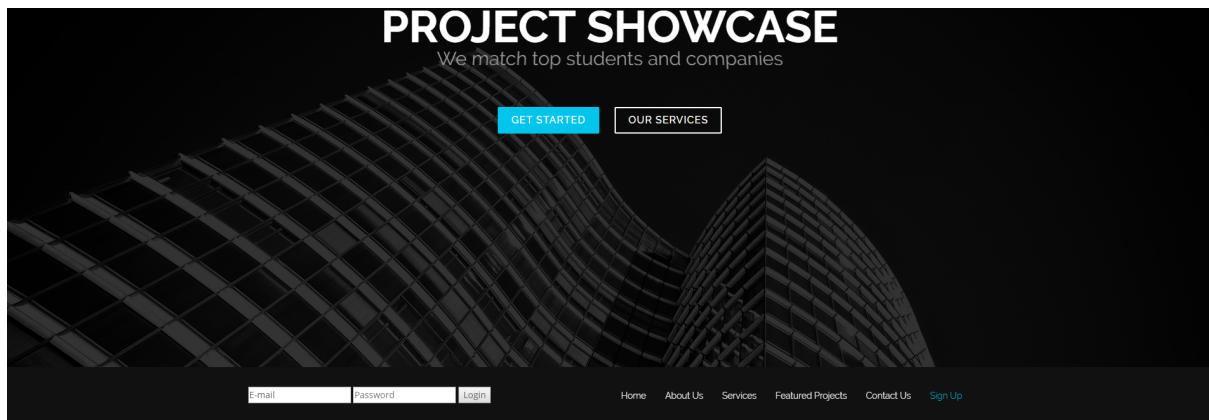
Your Email

Subject

Message

*“Contact us” Section*

In this homepage, there is also a navigation bar where existing users can login, or new users can navigate the homepage using the links or click on the “Sign Up” link to be redirected to the signup page where they can create an account:



## ABOUT US

### Combating the bias in current hiring practices

Studies have shown that sometimes even just your name on your resume can get in the way of you

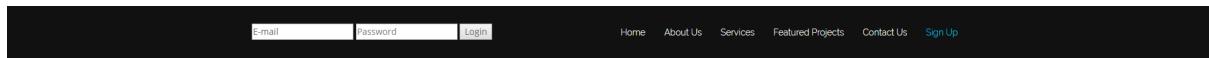


## *Navigation Bar*

On the signup page, the user has three choices. They can either create an account as a student, click on the “For Recruiters” button and create an account as a recruiter, or continue to access the site as a guest by clicking the “as guest here” link.

The image shows the "Sign Up" page for students. The background is dark blue. At the top center, the word "Sign Up" is written in a white sans-serif font. Below it, a small note says "Not ready to sign up yet? Proceed as guest [here](#)". There are two buttons: a blue-outlined "FOR STUDENTS" button and a white-outlined "FOR RECRUITERS" button. The form consists of several input fields: "First Name" and "Last Name" (both with placeholder text), "Email" (with placeholder text), "Password" (with placeholder text), "Confirm Password" (with placeholder text), "University" (with placeholder text), "Class Standing" (with placeholder text), and "Major" (with placeholder text). At the bottom left is a blue "Sign Up" button.

## *Sign-Up Page: Student View*



**Sign Up**

Not ready to sign up yet? Proceed as guest [here](#).

[FOR STUDENTS](#)   [FOR RECRUITERS](#)

form for recruiters

First Name \_\_\_\_\_ Last Name \_\_\_\_\_

Email \_\_\_\_\_

Password \_\_\_\_\_

Retype Password \_\_\_\_\_

Interested Project Categories

### *Sign-Up Page: Recruiter View*

The account pages and settings for students and users will look the same aside from different information fields. Aside from general information such as email, the account pages will show a list of connections between students and recruiters. The student page will also have a list of projects posted by the user.

Home   About Us   Services   Featured Projects   Contact Us   [Sign Up](#)

**STUDENT ACCOUNT**

**GENERAL ACCOUNT SETTINGS**

First Name:    Last Name:    Email:    University:    Year of Graduation:    Major:

**CHANGE PASSWORD**

New Password:    Confirm Password:

**RECRUITER CONNECTIONS**

Recruiter #1 [Contact](#)  
Recruiter #2 [Contact](#)  
Recruiter #3 [Contact](#)  
Recruiter #4 [Contact](#)

**PROJECTS**

	Project #1	<a href="#">Delete</a>	<a href="#">Edit</a>
	Project #2	<a href="#">Delete</a>	<a href="#">Edit</a>
	Project #3	<a href="#">Delete</a>	<a href="#">Edit</a>
	Project #4	<a href="#">Delete</a>	<a href="#">Edit</a>

[Add New Project](#)

### *Account Page: Student View*

Home   About Us   Services   Featured Projects   Contact Us   Sign Up

## RECRUITER ACCOUNT

**GENERAL ACCOUNT SETTINGS**

First Name:

Last Name:

Email:

Company:

**CHANGE PASSWORD**

New Password:

Confirm Password:

**STUDENT CONNECTIONS**

Student #1	<a href="#">Contact</a>	<a href="#">View Projects</a>
Student #2	<a href="#">Contact</a>	<a href="#">View Projects</a>
Student #3	<a href="#">Contact</a>	<a href="#">View Projects</a>
Student #4	<a href="#">Contact</a>	<a href="#">View Projects</a>

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### *Account Page: Recruiter View*

The project list view will display all projects with a thumbnail that the project owner chooses, project name, and a brief one-line description of what it does. The sidebar on this page shows how to filter and sort the projects. Clicking on one of these projects will lead to the detailed individual project information view, which shows a more in-depth description of the project, images, code, and language used.

Home   About Us   Services   Featured Projects   Contact Us   Sign Up

## PROJECTS

Sort By

- Newest
- Oldest
- Most Viewed

Filter By

Project Type

Language



Project 1

Basic project description



Project 2

Basic project description



Project 3

Basic project description



Project 4

Basic project description



Project 5

Basic project description



Project 6

Basic project description

## *Project List View*



The screenshot shows a project listing interface. At the top, there is a navigation bar with links: Home, About Us, Services, Featured Projects, Contact Us, and Sign Up. Below the navigation bar is a large, circular preview of a project. The preview has a blue border and contains a dark gray rectangle with the white text '</ CODE>'. Above the preview, the text 'PROJECT TITLE' is displayed in bold capital letters. Below the preview, the text 'Date posted: October 31, 2017' and 'Date updated: November 13, 2017' are shown. Underneath the preview, there is a section for 'Project Type: Website', 'Code: project\_code.zip', and 'Description'. The description is a short paragraph stating: 'This is a sample description for a project. Project purpose, how it was created, what it does, etc will go here in a paragraph format. What is put here will be decided by the project poster.' Below the description, there is a section for 'Languages/Technologies' with buttons for Java, SQL, HTML, and CSS.

## *Individual Project Information View*

### **Hardware and Software Requirements**

- Hardware Requirements
  - Windows:
    - Windows 10
    - Windows 8
    - Windows 7
  - RAM: 128MB
  - Disk Space: Recommended 512MB
  - Processor: Minimum Pentium 2 266MHz processor
  - Mac OS X: Intel-based Mac running Mac OS X 10.9+
  - Linux:
    - Oracle Linux 5.5+
    - Oracle Linux 6.x (32-bit), 6.x (64-bit)
    - Oracle Linux 7.x (64-bit)
    - Red Hat Enterprise Linux 5.5+ (32-bit), 6.x (64-bit)
    - Ubuntu Linux 12.04 LTS, 13.x
- Software Requirements
  - Java 8 Eclipse IDE for Java EE Developers (Neon/Oxygen)

# Testing

## **Login/Signup System**

Test #	1
Description	Attempting to sign in when the server is down
Steps	<ul style="list-style-type: none"><li>● Server is down</li><li>● User enters login credentials and attempts to sign in</li></ul>
Expected Result	A popup notification saying the server is down should appear
Actual Result	A popup notification saying the server is down should appear

Test #	2
Description	Attempting to sign in with the credentials of a currently logged in user
Steps	<ul style="list-style-type: none"><li>● User signs in</li><li>● Another user attempts to sign in with the same login credentials</li></ul>
Expected Result	A popup notification is displayed saying that the user is already signed in
Actual Result	A popup notification is displayed saying that the user is already signed in

Test #	3
Description	Invalid username entered and attempt to login made.
Steps	<ul style="list-style-type: none"><li>● In the general login page</li><li>● Invalid username entered</li><li>● Login button clicked</li></ul>
Expected Result	Receives an error message saying that username is invalid.
Actual Result	Receives an error message saying that username is invalid.

Test #	4
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Description	User attempts to login to an incorrect page
Steps	<ul style="list-style-type: none"> <li>In Student Login, a Recruiter enters his/her credentials and attempts to login</li> </ul>
Expected Result	An error message appears using AJAX
Actual Result	An error message appears using AJAX

Test #	5
Description	User attempts to create pre-existing username
Steps	<ul style="list-style-type: none"> <li>In the general login page</li> <li>Enters a username and a password</li> <li>Attempts to create a new account</li> <li>Presses the create account button</li> </ul>
Expected Result	An error message appears using AJAX “username already exist”
Actual Result	An error message appears using AJAX “username already exist”

Test #	6
Description	User attempts to login with a valid username but incorrect password
Steps	<ul style="list-style-type: none"> <li>In general login page</li> <li>Username is correct, password does not match what is in the database</li> <li>Login button clicked</li> </ul>
Expected Result	Error message is displayed saying the password is invalid.
Actual Result	Error message is displayed saying the password is invalid.

Test #	7
Description	Username and password fields are empty, login button is clicked.
Steps	<ul style="list-style-type: none"> <li>In either student or recruiter login page, both username and password are left blank</li> <li>Login button pressed</li> </ul>

Expected Result	Error message is displayed prompting user that username and password are invalid
Actual Result	Error message is displayed prompting user that username and password are invalid

Test #	8
Description	User attempts to login to an incorrect page
Steps	<ul style="list-style-type: none"> <li>● In the recruiter login page a student enters his/her credentials and attempts to login</li> </ul>
Expected Result	An error message appears using AJAX
Actual Result	An error message appears using AJAX

Test #	9
Description	User attempts to register, but leaves username field blank
Steps	<ul style="list-style-type: none"> <li>● In signup page</li> <li>● Leaves required field blank (e.g.username)</li> <li>● Presses the login button</li> </ul>
Expected Result	An error message appears using AJAX “you must have username”
Actual Result	An error message appears using AJAX “you must have username”

Test #	10
Description	Username field is empty
Steps	<ul style="list-style-type: none"> <li>● In any login page</li> <li>● Username field is left empty</li> <li>● Login button is clicked</li> </ul>
Expected Result	Error message is displayed saying that username is invalid.
Actual Result	Error message is displayed saying that username is invalid.

Test #	11
Description	Recruiter attempts to register but leaves company name blank
Steps	<ul style="list-style-type: none"> <li>● Recruiter attempts to register</li> <li>● Navigates to registration page</li> <li>● Fills all fields but the company name</li> <li>● Attempts to press finish</li> </ul>
Expected Result	Finish button is greyed out and AJAX error message appears next to field
Actual Result	Finish button is greyed out and AJAX error message appears next to field

Test #	12
Description	Recruiter attempts to register but leaves first name blank
Steps	<ul style="list-style-type: none"> <li>● Recruiter attempts to register</li> <li>● Navigates to registration page</li> <li>● Fills all fields but the first name</li> <li>● Attempts to press finish</li> </ul>
Expected Result	Finish button is greyed out and AJAX error message appears next to field
Actual Result	Finish button is greyed out and AJAX error message appears next to field

Test #	13
Description	Recruiter attempts to register but leaves last name blank
Steps	<ul style="list-style-type: none"> <li>● Recruiter attempts to register</li> <li>● Navigates to registration page</li> <li>● Fills all fields but the last name</li> <li>● Attempts to press finish</li> </ul>
Expected Result	Finish button is greyed out and AJAX error message appears next to field
Actual Result	Finish button is greyed out and AJAX error message appears next to field

Test #	14
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Description	Recruiter attempts to register but leaves email field blank
Steps	<ul style="list-style-type: none"> <li>• Recruiter attempts to register</li> <li>• Navigates to registration page</li> <li>• Fills all fields but the email field</li> <li>• Attempts to press finish</li> </ul>
Expected Result	Finish button is greyed out and AJAX error message appears next to field
Actual Result	Finish button is greyed out and AJAX error message appears next to field

Test #	15
Description	Recruiter attempts to register but leaves password field blank
Steps	<ul style="list-style-type: none"> <li>• Recruiter attempts to register</li> <li>• Navigates to registration page</li> <li>• Fills all fields but the password field</li> <li>• Attempts to press finish</li> </ul>
Expected Result	Finish button is greyed out and AJAX error message appears next to field
Actual Result	Finish button is greyed out and AJAX error message appears next to field

Test #	16
Description	Password field is left empty
Steps	<ul style="list-style-type: none"> <li>• In any login page</li> <li>• Password field is left empty</li> <li>• Login button is clicked</li> </ul>
Expected Result	Error message is displayed saying that password is invalid.
Actual Result	Error message is displayed saying that password is invalid.

Test #	17
Description	Student user attempts to register, but leaves password blank
Steps	<ul style="list-style-type: none"> <li>• In signup page</li> </ul>

	<ul style="list-style-type: none"> <li>• Leaves password blank</li> <li>• Presses the signup button</li> </ul>
Expected Result	Error message is displayed with AJAX “you must have a password”
Actual Result	Error message is displayed with AJAX “you must have a password”

Test #	18
Description	Student user attempts to register, but leaves school blank
Steps	<ul style="list-style-type: none"> <li>• In signup page</li> <li>• Leaves school blank</li> <li>• Presses the signup button</li> </ul>
Expected Result	Error message is displayed with AJAX “you must enter your school”
Actual Result	Error message is displayed with AJAX “you must enter your school”

Test #	19
Description	Student user attempts to register, but leaves email blank
Steps	<ul style="list-style-type: none"> <li>• In signup page</li> <li>• Leaves email blank</li> <li>• Presses the signup button</li> </ul>
Expected Result	Error message is displayed with AJAX “you must enter your email”
Actual Result	Error message is displayed with AJAX “you must enter your email”

Test #	20
Description	Student user attempts to register, but leaves first name blank
Steps	<ul style="list-style-type: none"> <li>• In signup page</li> <li>• Leaves first name blank</li> <li>• Presses the signup button</li> </ul>
Expected Result	Error message is displayed with AJAX “you must enter your first

	name”
Actual Result	Error message is displayed with AJAX “you must enter your first name”

Test #	21
Description	Student user attempts to register, but leaves last name blank
Steps	<ul style="list-style-type: none"> <li>● In signup page</li> <li>● Leaves last name blank</li> <li>● Presses the signup button</li> </ul>
Expected Result	Error message is displayed with AJAX “you must enter your last name”
Actual Result	Error message is displayed with AJAX “you must enter your last name”

Test #	22
Description	Student user attempts to register, but leaves multiple required fields blank
Steps	<ul style="list-style-type: none"> <li>● In signup page</li> <li>● Leaves some required fields blank</li> <li>● Presses the signup button</li> </ul>
Expected Result	Corresponding error message is displayed with AJAX besides every blank field
Actual Result	Corresponding error message is displayed with AJAX besides every blank field

Test #	23
Description	Student user attempts to register, but does not input email with right format
Steps	<ul style="list-style-type: none"> <li>● In signup page</li> <li>● Input wrongly-formatted email</li> <li>● Presses the signup button</li> </ul>
Expected Result	Error message is displayed with AJAX “this is not a valid email address”

Actual Result	Error message is displayed with AJAX “this is not a valid email address”
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### Uploading a project

Test #	24
Description	Student attempts to upload a new project but leaves project name blank
Steps	<ul style="list-style-type: none"> <li>• In project upload form, project name is left blank</li> <li>• Submit button is clicked</li> </ul>
Expected Result	Error message is displayed saying that all fields must be filled to submit.
Actual Result	Error message is displayed saying that all fields must be filled to submit.

Test #	25
Description	Student attempts to upload a new project but leaves project category blank
Steps	<ul style="list-style-type: none"> <li>• In project upload form, project category is left blank</li> <li>• Submit button is clicked</li> </ul>
Expected Result	Error message is displayed saying that all fields must be filled to submit.
Actual Result	Error message is displayed saying that all fields must be filled to submit.

Test #	26
Description	Student attempts to upload a new project but leaves project description blank
Steps	<ul style="list-style-type: none"> <li>• In project upload form, project description is left blank</li> <li>• Submit button is clicked</li> </ul>
Expected Result	Error message is displayed saying that all fields must be filled to submit.
Actual Result	Error message is displayed saying that all fields must be filled to submit.

Test #	27
Description	Student attempts to upload a new project but leaves project image blank
Steps	<ul style="list-style-type: none"> <li>● In project upload form, project image is left blank</li> <li>● Submit button is clicked</li> </ul>
Expected Result	Error message is displayed saying that all fields must be filled to submit.
Actual Result	Error message is displayed saying that all fields must be filled to submit.

Test #	28
Description	Student attempts to upload a file in the Upload Projects Page but file is not in zip format
Steps	<ul style="list-style-type: none"> <li>● Student attempts to upload project</li> <li>● Navigates to upload project page</li> <li>● Fills all fields correctly but fails to upload project in zip format</li> <li>● Attempts to press upload</li> </ul>
Expected Result	Upload button is greyed out and AJAX message appears next to file upload field
Actual Result	Upload button is greyed out and AJAX message appears next to file upload field

Test #	29
Description	Student attempts to upload an image in the Upload Projects Page but the image is not in png
Steps	<ul style="list-style-type: none"> <li>● Student attempts to upload project</li> <li>● Navigates to upload project page</li> <li>● Fills all fields correctly but fails to upload an image that is in png format</li> <li>● Attempts to press upload</li> </ul>
Expected Result	Upload button is greyed out and AJAX message appears next to file upload field

Actual Result	Upload button is greyed out and AJAX message appears next to file upload field
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### Contact between recruiter and student

Test #	30
Description	Guest user attempts to click the contact a student
Steps	<ul style="list-style-type: none"> <li>In project viewing page, guest user attempts to click the Contact button</li> </ul>
Expected Result	Contact button is grayed out and inactive
Actual Result	Contact button is grayed out and inactive

Test #	31
Description	Recruiter attempts to connect with student
Steps	<ul style="list-style-type: none"> <li>Recruiter sees a student's project</li> <li>Recruiter attempts to connect with the student</li> </ul>
Expected Result	Student should receive an email notification
Actual Result	Student should receive an email notification

Test #	32
Description	Recruiter attempts to connect with student while student is online
Steps	<ul style="list-style-type: none"> <li>Recruiter sees a student's project</li> <li>Recruiter attempts to connect with the student</li> </ul>
Expected Result	Student should get a notification popup instantaneously
Actual Result	Student should get a notification popup instantaneously

Test #	33
Description	Student attempts to accept recruiter connection request
Steps	<ul style="list-style-type: none"> <li>Student receives email notification</li> <li>Student clicks on notification which redirects student to</li> </ul>

	<p>website login page</p> <ul style="list-style-type: none"> <li>● Student successfully logs in</li> <li>● Student checks his/her connection requests</li> <li>● Student attempts to accept connection</li> </ul>
Expected Result	Connection should be accepted and an email notification should be sent to recruiter and a notification popup should appear instantaneously in recruiter's account
Actual Result	Connection should be accepted and an email notification should be sent to recruiter and a notification popup should appear instantaneously in recruiter's account

Test #	34
Description	Recruiter attempts to click “CONTACT” button using default message
Steps	<ul style="list-style-type: none"> <li>● Recruiter logs in</li> <li>● Recruiter navigate to student page</li> <li>● Recruiter clicks “CONTACT” button</li> </ul>
Expected Result	<ul style="list-style-type: none"> <li>● Corresponding student user receives default message generated by the website in his/her email</li> <li>● Corresponding student receives alert when he/she logs in</li> <li>● CONTACT button is disabled before student user replies</li> </ul>
Actual Result	<ul style="list-style-type: none"> <li>● Corresponding student user receives default message generated by the website in his/her email</li> <li>● Corresponding student receives alert when he/she logs in</li> <li>● CONTACT button is disabled before student user replies</li> </ul>

Test #	35
Description	Recruiter attempts to click “CONTACT” button using customized message
Steps	<ul style="list-style-type: none"> <li>● Recruiter logs in</li> <li>● Recruiter navigate to student page</li> <li>● Recruiter clicks on “Or customize your message” link and inputs message</li> <li>● Recruiter clicks “CONTACT” button</li> </ul>

Expected Result	<ul style="list-style-type: none"> <li>• Corresponding student user receives customized message from recruiter in his/her email</li> <li>• Corresponding student receives alert when he/she logs in</li> <li>• CONTACT button is disabled before student user replies</li> </ul>
Actual Result	<ul style="list-style-type: none"> <li>• Corresponding student user receives customized message from recruiter in his/her email</li> <li>• Corresponding student receives alert when he/she logs in</li> <li>• CONTACT button is disabled before student user replies</li> </ul>

Test #	36
Description	Student user clicks on “Connect!” in email to agree to connect with recruiter
Steps	<ul style="list-style-type: none"> <li>• Student logs into email</li> <li>• Student clicks on “Connect” button embedded in the invitation email</li> </ul>
Expected Result	Student information is automatically sent to the recruiter
Actual Result	Student information is automatically sent to the recruiter

Test #	37
Description	Student user clicks on “No thanks” in email to refuse to connect with recruiter
Steps	<ul style="list-style-type: none"> <li>• Student logs into email</li> <li>• Student clicks on “No thanks” button embedded in the invitation email</li> </ul>
Expected Result	An email saying “Sorry” is sent to recruiter
Actual Result	An email saying “Sorry” is sent to recruiter

### Editing account details

Test #	38
Description	Student attempts to edit their University but leaves the field blank

Steps	<ul style="list-style-type: none"> <li>● Student user signs in</li> <li>● Student clicks on “Account Settings”</li> <li>● Student clicks on edit button and erases the University field</li> <li>● Student clicks on “Save” button</li> </ul>
Expected Result	Save button is greyed out
Actual Result	Save button is greyed out

Test #	39
Description	Student attempts to edit their Major but leaves the field blank
Steps	<ul style="list-style-type: none"> <li>● Student user signs in</li> <li>● Student clicks on “Account Settings”</li> <li>● Student clicks on edit button and erases the Major field</li> <li>● Student clicks on “Save” button</li> </ul>
Expected Result	Save button is greyed out
Actual Result	Save button is greyed out

Test #	40
Description	Student attempts to edit their first name but leaves the field blank
Steps	<ul style="list-style-type: none"> <li>● Student user signs in</li> <li>● Student clicks on “Account Settings”</li> <li>● Student clicks on edit button and erases the first name field</li> <li>● Student clicks on “Save” button</li> </ul>
Expected Result	Save button is greyed out
Actual Result	Save button is greyed out

Test #	41
Description	Student attempts to edit their last name but leaves the field blank
Steps	<ul style="list-style-type: none"> <li>● Student user signs in</li> <li>● Student clicks on “Account Settings”</li> <li>● Student clicks on edit button and erases the last name</li> </ul>

	<ul style="list-style-type: none"> <li>● field</li> <li>● Student tries to click on “Save” button</li> </ul>
Expected Result	Save button is greyed out
Actual Result	Save button is greyed out

Test #	42
Description	Student attempts to edit their class year but leaves the field blank
Steps	<ul style="list-style-type: none"> <li>● Student user signs in</li> <li>● Student clicks on “Account Settings”</li> <li>● Student clicks on edit button and erases the class year field</li> <li>● Student tries to click on “Save” button</li> </ul>
Expected Result	Save button is greyed out
Actual Result	Save button is greyed out

Test #	43
Description	Student attempts to edit their email but leaves the field blank
Steps	<ul style="list-style-type: none"> <li>● Student user signs in</li> <li>● Student clicks on “Account Settings”</li> <li>● Student clicks on edit button and erases the email field</li> <li>● Student tries to click on “Save” button</li> </ul>
Expected Result	Save button is greyed out
Actual Result	Save button is greyed out

Test #	44
Description	Student tries to edit a project from their account and leaves multiple fields blank
Steps	<ul style="list-style-type: none"> <li>● Student user signs in</li> <li>● Student clicks on “Account Settings”</li> <li>● Student clicks on edit button</li> <li>● Student clicks on edit button for a specific project on the account settings page</li> <li>● Student edits fields and leaves any combination of them</li> </ul>

	<ul style="list-style-type: none"> <li>blank</li> <li>● Student tries to press save button</li> </ul>
Expected Result	Project save button is greyed out
Actual Result	Project save button is greyed out

Test #	45
Description	Student attempts to edit their account settings, all fields correctly inputted after editing
Steps	<ul style="list-style-type: none"> <li>● Student user signs in</li> <li>● Student clicks on “Account Settings”</li> <li>● Student clicks on edit button and edits fields correctly and does not leave any blank</li> <li>● Student tries to click on “Save” button</li> </ul>
Expected Result	Save button is clickable and data is submitted
Actual Result	Save button is clickable and data is submittedSave button is clickable and data is submitted

Test #	46
Description	Recruiter attempts to edit their account settings, leaves email blank
Steps	<ul style="list-style-type: none"> <li>● Recruiter user signs in</li> <li>● Recruiter clicks on “Account Settings”</li> <li>● Recruiter clicks on edit button and leaves email field blank</li> <li>● Recruiter tries to click on “Save” button</li> </ul>
Expected Result	Save button is greyed out
Actual Result	Save button is greyed out

Test #	47
Description	Recruiter attempts to edit their account settings, leaves Company blank
Steps	<ul style="list-style-type: none"> <li>● Recruiter user signs in</li> <li>● Recruiter clicks on “Account Settings”</li> </ul>

	<ul style="list-style-type: none"> <li>• Recruiter clicks on edit button and leaves Company field blank</li> <li>• Recruiter tries to click on “Save” button</li> </ul>
Expected Result	Save button is greyed out
Actual Result	Save button is greyed out

Test #	48
Description	Recruiter attempts to edit their account settings, leaves multiple fields blank
Steps	<ul style="list-style-type: none"> <li>• Recruiter user signs in</li> <li>• Recruiter clicks on “Account Settings”</li> <li>• Recruiter clicks on edit button and any combination of fields blank</li> <li>• Recruiter tries to click on “Save” button</li> </ul>
Expected Result	Save button is greyed out
Actual Result	Save button is greyed out

Test #	49
Description	Recruiter attempts to edit their account settings, all fields correctly inputted after editing
Steps	<ul style="list-style-type: none"> <li>• Recruiter user signs in</li> <li>• Recruiter clicks on “Account Settings”</li> <li>• Recruiter clicks on edit button and edits fields correctly and does not leave any blank</li> <li>• Recruiter tries to click on “Save” button</li> </ul>
Expected Result	Save button is clickable and data is submitted
Actual Result	Save button is clickable and data is submitted

Test #	50
Description	Recruiter attempts to edit their account settings, leaves first name blank
Steps	<ul style="list-style-type: none"> <li>• Recruiter user signs in</li> <li>• Recruiter clicks on “Account Settings”</li> </ul>

	<ul style="list-style-type: none"> <li>• Recruiter clicks on edit button and leaves first name field blank</li> <li>• Recruiter tries to click on “Save” button</li> </ul>
Expected Result	Save button is greyed out
Actual Result	Save button is greyed out

Test #	51
Description	Recruiter attempts to edit their account settings, leaves last name blank
Steps	<ul style="list-style-type: none"> <li>• Recruiter user signs in</li> <li>• Recruiter clicks on “Account Settings”</li> <li>• Recruiter clicks on edit button and leaves last name field blank</li> <li>• Recruiter tries to click on “Save” button</li> </ul>
Expected Result	Save button is greyed out
Actual Result	Save button is greyed out

### Student editing projects

Test #	52
Description	Student tries to delete a project from their account
Steps	<ul style="list-style-type: none"> <li>• Student user signs in</li> <li>• Student clicks on “Account Settings”</li> <li>• Student clicks on edit button and tries to delete a project</li> </ul>
Expected Result	Project delete button is clickable and removes project from the student’s page
Actual Result	Project delete button is clickable and removes project from the student’s page

Test #	53
Description	Student tries to edit a project from their account and correctly inputs all fields
Steps	<ul style="list-style-type: none"> <li>• Student user signs in</li> <li>• Student clicks on “Account Settings”</li> </ul>

	<ul style="list-style-type: none"> <li>● Student clicks on edit button</li> <li>● Student clicks on edit button for a specific project on the account settings page</li> <li>● Student edits project fields correctly</li> <li>● Student presses save button</li> </ul>
Expected Result	Project save button is clickable
Actual Result	Project save button is clickable

Test #	54
Description	Student tries to edit a project from their account and leaves project title blank
Steps	<ul style="list-style-type: none"> <li>● Student user signs in</li> <li>● Student clicks on “Account Settings”</li> <li>● Student clicks on edit button</li> <li>● Student clicks on edit button for a specific project on the account settings page</li> <li>● Student edits title field and leaves it blank</li> <li>● Student tries to press save button</li> </ul>
Expected Result	Project save button is greyed out
Actual Result	Project save button is greyed out

Test #	55
Description	Student tries to edit a project from their account and leaves project description blank
Steps	<ul style="list-style-type: none"> <li>● Student user signs in</li> <li>● Student clicks on “Account Settings”</li> <li>● Student clicks on edit button</li> <li>● Student clicks on edit button for a specific project on the account settings page</li> <li>● Student edits description field and leaves it blank</li> <li>● Student tries to press save button</li> </ul>
Expected Result	Project save button is greyed out
Actual Result	Project save button is greyed out

Test #	56
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Description	Student tries to edit a project from their account and removes project image
Steps	<ul style="list-style-type: none"> <li>● Student user signs in</li> <li>● Student clicks on “Account Settings”</li> <li>● Student clicks on edit button</li> <li>● Student clicks on edit button for a specific project on the account settings page</li> <li>● Student removes all project images</li> <li>● Student tries to press save button</li> </ul>
Expected Result	Project save button is greyed out
Actual Result	Project save button is greyed out

Test #	57
Description	Student tries to edit a project from their account and leaves project category blank
Steps	<ul style="list-style-type: none"> <li>● Student user signs in</li> <li>● Student clicks on “Account Settings”</li> <li>● Student clicks on edit button</li> <li>● Student clicks on edit button for a specific project on the account settings page</li> <li>● Student edits project category and leaves it blank</li> <li>● Student tries to press save button</li> </ul>
Expected Result	Project save button is greyed out
Actual Result	Project save button is greyed out

Test #	58
Description	Student tries to edit a project from their account and leaves multiple fields blank
Steps	<ul style="list-style-type: none"> <li>● Student user signs in</li> <li>● Student clicks on “Account Settings”</li> <li>● Student clicks on edit button</li> <li>● Student clicks on edit button for a specific project on the account settings page</li> <li>● Student edits fields and leaves any combination of them blank</li> <li>● Student tries to press save button</li> </ul>
Expected Result	Project save button is greyed out

Actual Result	Project save button is greyed out
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### Project View Page

Test #	59
Description	User tries to sort the list of projects from newest to oldest
Steps	<ul style="list-style-type: none"> <li>● User navigates to Project List view</li> <li>● User clicks on the sort option sort from newest to oldest</li> </ul>
Expected Result	The list of projects is now sorted from newest to oldest
Actual Result	The list of projects is now sorted from newest to oldest

Test #	60
Description	User tries to sort the list of projects from oldest to newest
Steps	<ul style="list-style-type: none"> <li>● User navigates to Project List view</li> <li>● User clicks on the sort option sort from oldest to newest</li> </ul>
Expected Result	The list of projects is now sorted from oldest to newest
Actual Result	The list of projects is now sorted from oldest to newest

Test #	61
Description	User tries to filter the projects by a category
Steps	<ul style="list-style-type: none"> <li>● User navigates to Project List view</li> <li>● User clicks on the filter option to filter by a certain project category (example: website)</li> </ul>
Expected Result	The list of projects now only displays projects of the chosen category
Actual Result	The list of projects now only displays projects of the chosen category

Test #	62
Description	User tries to filter the projects by programming language

Steps	<ul style="list-style-type: none"> <li>• User navigates to Project List view</li> <li>• User clicks on the filter option to filter by a certain programming language</li> </ul>
Expected Result	The list of projects now only displays projects of the chosen language
Actual Result	The list of projects now only displays projects of the chosen language

## Deployment

To deploy this application within Eclipse, import the Project\_Showcase.zip file using the built in import function. This should generate a project called Project Showcase with root folders src and images, along with the MySQL script. The src directory contains the all of the views for the front-end of the website, networking code, and user packages. We are the outside libraries: mysql-connector-java-5.1.40-bin.jar, JQuery for the frontend, and the JavaMail API for the email notification system. A step by step instruction on how to run the program is listed below:

- To execute server for the application, start Tomcat server and run index.jsp
- You are at the landing page now. You can either login using the navbar, or click the signup link in the navbar.
- From there on, you can signup as a Recruiter, Student or continue as a guest.
- Enter your credentials for your selected user. If you wish to proceed as guest, click the “continue as guest” button to directly go to project page.
- After creating your account for one-time registration, you can login. Upon logging in successfully, you’ll be taken to a project viewing page and you can enjoy using the application!

