Project NAME: InternCollective

Problem Statement:

These days, finding internship for students is still somewhat difficult. Normally, the students would count on the university to check for prospective internship positions and wait for either emails or any news to be send directly to them. This might be a problem as these emails might be buried among all the other emails. Thus, making the visibility of the internship to be limited. Sure, there are some students who actively seek out the internship positions but it is normally difficult as there is not really a site for them to find these internships. Sites like Jobstreet, Indeed and other job seeking sites has internships positions mixed in with actual job positions which makes it harder for them to find and might be confusing. Besides, when the students do get called up for an internship, they would need to gather all their resume and portfolio and transcript of their CGPA to send to the companies. Now, let's move to the companies. When the companies want to send out internship offers, their HR department would have to write their portfolio and description on these multiple sites in order to gain visibility. Besides, when they do get emails from the students, they would have to check one by one their portfolio, CGPA, university they are from and many more in order to make sure they are eligible. Making this tiring and extra work. Besides, they might even get invalid emails from job seekers that confused the internship position as a full time job.

Now, what I propose is a web app that concentrates on only the students and the companies who offer these internships. An internship finder platform for both student side and company side. A one stop site that connects the students directly to the companies. Instead of searching the emails that are buried or go searching for multiple sites like JobStreet and making multiple accounts for the hope of getting the internship, the web app I plan to develop would be the one stop solution to that. I could make the website to specialise only on the students and various features that revolve around the students rather than cater to others who are looking for full time jobs. The web app also plan to smoothen the process of gathering the portfolio and showing it to the companies. I plan to make that process automated. Besides, for the companies, I want to make it easier for them to get the exact and eligible students they want without having to go

through various emails. They could set up various parameters to filter out the amount of submissions they get automatically and easily. It also allows them to view the students' portfolio and works immediately rather than receiving it through email. I plan to automate writing internship descriptions as well. Basically, I want to make the contact point for students and company's easier and automate some processes to make it easier for everyone.

Data preparation/collection

I plan to collect the company data from job seeking websites like JobStreet, Indeed and many more. Besides, I could also gather data from my student email from Microsoft Outlook where there are various internship offers from Swinburne. Using these data, I could set up a mock data for the companies that offers the internship for my web app. I would know what information to use and what new information I could utilise to make the experience of using the web app better.

I also plan to collect data from some students or my friends in order to facilitate the mock data of the students on my website such as student details, their CGPA, what they want to specifically search in their internship. I could have mock data of portfolio and links to stuff like Github that demonstrates the portfolio of a programmer.

Use cases

Company Case Study

ID:	**Company Case Study 1 (CD1)**
Title:	Process of a company trying to add an internship position
Description:	The goal for the company is to create a new internship position and post it to the system. The company wants to add the position, descriptions, type of job and a due date.
Primary Actor:	Company
Preconditions:	1. The company is a valid company 2. The company had already created a company profile in the web app.
Postconditions:	1, The company manage to create an internship posting. 2. The company accept a submission from the student
Main Success Scenario:	1. The company logs onto their student user profile 2. The company reach the student dashboard 3. The company add a new internship postings 4. The company edits the postings position, position description, due date and type of job. 5.The company completed the posting 6. The ongoing posting area is updated with the new postings. 7. The company clicks show submissions button on the posting that has expired on the due date postings.

	8. A list of submissions is shown 9. The company filter the submissions by CGPA (3.5) 10. The company check the uploaded transcript pop up and link to the student's GitHub portfolio 11. The company accepts a student's submission and send a
Extensions:	1a. The company cannot log onto his user profile because of wrong username or password -The system will print out an error message and highlight the input box on which information the company input wrong. 1b. The company did not input their username or password and tries to log on -The system will print out a message telling the company to write down their relevant information 2a. The company dashboard does not load -The system will print out a message saying the page could not load and is currently unavailable. -The system sends the company back to main page 3a. The company could not add his posting -The system should print out the message that it could not add the posting -The system should reload the page to return to previous state 4-5a. The company did not fill in enough details into their posting. -The system should print an error message saying and highlight the input box to notify the company to input the relevant details

	6a. The ongoing posting is not updated -The company should reload the page or check their internet connection 6b. The company wants to delete a posting -The company have to click the delete button on the posting 7-8a. There is no submission -The system should notify the company that there are no submission. 7-8b. The company wants to delete the posting -The company have to click the delete button on the posting 10a. The pop up doesn't show - The system should print out a message that the pop up cannot load and exit the pop up
Frequency of Use:	Will be used whenever the user wants to add internship postings
Status:	In preproduction stage
Owner:	Lim Jia Lok
Priority:	High priority

Student Case Study

ID:	**Student Case Study 1 (SCD1)**
Title:	Process of a student programmer trying to find internship placement and apply for them
Description:	The goal for the student programmer is to successfully apply for internships based on their specific search criteria that matches their field of study and other attributes such as location of the company. The student wants to update their CGPA and other transcripts and also create a link to their Github so companies can directly check his portfolio.
Primary Actor:	Student
Preconditions:	1. The student is a valid student of a university 2. The student have already created a student profile in the web app.
Postconditions:	1, The student manage to apply for the internship. 2. The student get the reply back from the company
Main Success Scenario:	1. The student logs onto their student user profile 2. The student reach the student dashboard 3. The student edit their profile to change their CGPA and upload their transcript and include a link to their GitHub 4. The student filters out the search for internship positions by type of company of IT-Software, and input the word web developer into the position filter and click search 5. A list of internship positions are shown

	6. The student check on the internship position and click on details to check the company details and what the company's criteria is and a detail box pop up appears. 7. The student close the details box pop up and click the apply button. 8. The recent activity detail is updated to reflect his application 9.The student manage to apply for the internship 10. After a few days, he get a reply back and a message from the company in his inbox that it is accepted.
Extensions:	1a. The student cannot log onto his user profile because of wrong username or password -The system will print out an error message and highlight the input box on which information the student input wrong. 1b. The student did not input their username or password and tries to log on -The system will print out a message telling the student to write down their relevant information 2a. The student dashboard does not load -The system will print out a message saying the page could not load and is currently unavailable. -The system sends the student back to main page 3a. The student could not upload his transcript -The system should print out the message that it could not upload the transcript 3b. The transcript is not in png format and cannot upload -The system inform the student that the upload is not in the correct format 4-5a. The list of internships is not filtered.

	-The student should try to reload the page to reset the filter -The student should try to clear the filter by clicking the clear button 6-7a. The detail box pop up does not appear -The system should print out a message that the pop up cannot load and exit the pop up 7a. The apply button does not work -The system should print out an error message and reload the page 8a. The recent activity area is not updated -The student should reload the page or check their internet connection 9. The internship is not applied -The system should print out that the application failed 10. The company rejects his application -The recent activity page should show that the application is rejected.
Frequency of Use:	Will be used whenever the user wants to apply for internship
Status:	In preproduction stage
Owner:	Lim Jia Lok
Priority:	High priority

5. Comply and demonstrated appropriate use of features integrated in the web development frameworks. –

Bootstrap

Grid

-The grid system is used to placed various elements and to resize properly using xs and md

Box Modal

-I will use this pop up for log in page for both the students and the company's dashboard

-It will be used to show the pop up of the description of the intern job in the student dashboard

-It will be used for sign up form as well

-This is used to show the pop up of personal message page

Glyph icons

-The search icon with the search button

-The trash icon with the delete button

-The upload icon with the upload button for uploading the transcript

-The picture icon for the viewing button of the transcript for company dashboard

Accordion/Collapsible

-This is used to show the collapsible list group for content in both dashboard can navigate to parts of the section of the dashboard

-This is also used to show the personal student and company profile that they can edit so that it does not take too much space

Progress bar

-A simple progress bar to show the upload progress of the transcript

Input Sizing

-This used to properly resize the forms and input boxes for mobile view and desktop view

Pagination

-This is used in the company dashboard for the intern position postings as there are a lot of pages to store the postings. I proposed 10 postings per page.

-This is used in the student dashboard to show the result of internship searches and to store them in the event there's a lot of results. I proposed 10 internship result per page.

Table

-This is used in company dashboard to store the postings.

-This is used in student dashboard to store the amount of internship searches found.

AngularJS's controller

-To store the postings in company dashboard, a $scope array will be declared in the controller. Ng-repeat is then used to store the postings onto a table. The user can add and delete the postings using .push and .splice function in the controller

-The array used to store the postings will then be filtered using filter function in the student dashboard. The internship postings can be filtered by position, company, location of the company, and industry the company belongs to.

-When the student decide to apply for the position, their profile and details are pushed into a new array when they clicked apply.

-The array with student's profiles and details are then used in the company dashboard submissions. The company can then filter this data using filter for CGPA, location, course, age and university. The company can then delete any submissions using delete button which uses .splice function.

AngularJS's route and ng-view

-The internship searches in the student dashboard would be created in a separate html. It will then be routed into the student dashboard html. This is because unless the student press the search button to look for internships, the table for the search result will not be shown. This is to avoid the table from showing all the results which will take longer to load the page when the student dashboard is first navigated to.

-When the company dashboard user click show submissions, the ng-view will then show the submissions table. The submissions table using ng-repeat to show the student submissions are done in another html. It will be routed to the company dashboard html.

AngularJS's custom filter and custom directive

-The custom filter is used to format the due date input into the date format.

-The custom directive is used to handle custom html tags such as company and student to individually show the profile of each individual company and student.

6. Proposed & brief description of external library(ies) / framework(s) integration

React.js

The reason for me choosing React is because it is a good JavaScript library to build my user interfaces. As my web app requires users to interact with various forms and writing details. I want to make sure my interface is as reactive as possible and the UI can be reuse for both my company dashboard and student dashboard. React helps divide the UI into various reusable components which increases flexibility. For example, I could just create a copy of my form for the student dashboard. Then it becomes a component for me to reuse again for the company dashboard. All I need to do is to call the component and it would be rendered. Thus, I don't have to write another code just to use the same form again.

Moment.js

The reason for me to use this is because I wanted to inject a date manipulation ability into my web app. As mentioned, the due date of the internship postings are important as they are automatically updated to the due date area of the postings. So I require moment js libraries to compare the current date and the due date so when the current date is greater than the due date, the application automatically updates the due date postings area with the posting is due.

KendoUI

The reason for me to use this is because it provides advanced UI features and it easily provide any requested view. The UI features that it has provides a more responsive web app. It has a scheduler api that allows me to make a scheduler to show and group

together the due date of each postings. It has an amazing grid usage that allows me to group a grid or table by column which makes it even easier to sort the grid based on information that I want to sort with.

7. References of external library(ies) / framework(s) / idea integration

React.js

I got React JS from a YouTube channel Traversy Media I subscribed too that have weekly tutorial on how to write and use React js. As such I have seen how React can be used to reuse some components. The reason I used React is because I can write less code for my forms and UI so I can just reuse them as my Company and Student dashboard reuses some element.
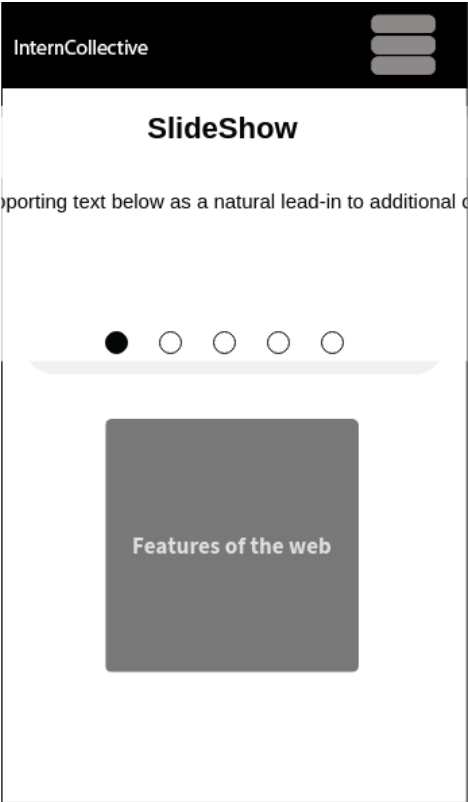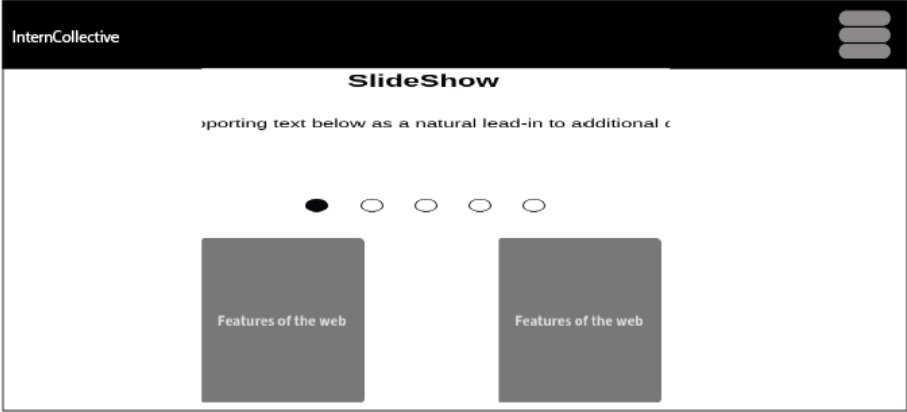
Moment.js

I know about this framework when I googled any frameworks that can inject date element and can easily customized the format. There were date framework but I used Moment.js because it is the most recommended one. Besides, I wanted a way to compare the due dates and actual local date. I got this when searching for a way for Moment.js to do that function using stack overflow. The recommended way is Moment's function like isBefore or isAfter.

KendoUI

I know about this as I was searching for recommended frameworks to use through Google. I went to the KendoUI website and browse through the demo took for what UI implementation I could use. The inspiration I got to make my tables or grid and also a scheduler comes from those demos. The grid demo especially is useful as I can just drag the column of the grid to sort it by the grid. Effectively giving me a sorting option.

8. Web app wireframes in both desktop & mobile (portrait & landscape) views

SlideShow

With supporting text below as a natural lead-in to additional content.

● ○ ○ ○ ○

Features of the web

Features of the web

Features of the web

Features of the web

Explanation of what this web does

Explanation of what this web does

History of the company

InternCollective

SlideShow

...porting text below as a natural lead-in to additional ...

● ○ ○ ○ ○

Features of the web

Features of the web

InternCollective

SlideShow

...porting text below as a natural lead-in to additional ...

● ○ ○ ○ ○

Features of the web

Welcome, Teradon Technology Solution Company

Company Portfolio

Expired Posting

#	Title	Student Submissions	Delete
1	Web developers postings	View	Delete
2	Software designers internships	View	Delete
3	Engineer Internships	View	Delete

Internship Postings

Filter   Position ▾   Add

#	Title	Position	Description	Due Date	Action
1	Posting Title	Data Scientist	Lorem ipsum bla bla	12/8/20	Edit Delete View

« 1 2 3 4 5 »

Web Developer Internships Total Submisions: 1

Filter   CGPA ▾

#	Student Name	Univeristy	CGPA	Transcript	View Portfolio	Contact	Action
1	Eddie	Swinburne	3.5	View	www.github.com	eddie@gmail.c…	Accept Delete

« 1 2 3 4 5 »

Welcome, Eddie

Student Portfolio

Recent Application

#	Title	Status	Delete
1	Web developers postings	Accepted	Delete
2	Software designers internships	Rejected	Delete
3	Engineer Internships	Pending	Delete

Internship Positions

🔍 Filter   Position ▾

#	Title	Position	Description	Due Date	Company Profile	Action
1	Posting Title	Data Scientist	View	12/8/20	Teradon Tech solution	Apply

« 1 2 3 4 5 »

Internship Description: Teradon Tech Solution

Internship Description

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer posuer

Someone famous in *Source Title*

Company Profile: Teradon Tech Solution

Company Profile

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer posuer

Someone famous in *Source Title*

InternCollective

Welcome, Teradon Technology Solution Company

Company Portfolio

Expired Posting

#	Title	Student Submissions	Delete
1	Web developers postings	View	Delete

InternCollective

Welcome, Teradon Technology Solution Company

Company Profile

Expired Postings

#	1
Title	Web developers postings
Student Submissions	View
Delete	Delete

#	**2**
Title	Web developers postings