# CSD3125 Assignment 3

2100948

Tan Ek Hern

#### 1. Introduction

The POD department of SIT would like to have a web-browser based software system named Talent Management System ("TMS" in short) to manage a talent pool of student assistants. The system could have the following functions:

- Students can register their interests to be considered as student assistants with their preferences and capabilities.
- Supervisors can submit their requests to look for student assistants by specifying the skills needed.
- TMS will make automatic recommendations of candidate students towards supervisors' request by matching the requirements with the students' capabilities and interests.
- Supervisors will review and choose the student assistants and issue the offer. The selected student assistants can choose to accept or reject the offer.
- Upon completion of the project, supervisors will mark the completion of the project and enter the duration of student's engagement.
- TMS will provide visualization canvas for supervisors, e.g., status of requests, etc.
- TMS will provide visualization canvas for students, e.g., tasks undertaken, etc.
- TMS has a message center containing various notification messages for both supervisors and students.

#### 2. Requirement Analysis: User Analysis

#### Students:

**Age:** 19 - 30 +

**Technological Proficiency:** Typically adept at using technology and at least fairly proficient in using job search type websites.

**Motivation:** Varying degrees of motivation depending on the individual but usually at least moderately motivated.

#### Supervisors:

**Age:** 35 - 60

**Technological Proficiency:** Less adept at using technology as age increases. Older supervisors are typically less proficient at navigating any kind of website.

**Motivation:** Varying degrees of motivation depending on the individual but usually at least slightly motivated.

#### **User Personas:**



# **USER CLASS: Student**

# **Linda Chua**University 3<sup>rd</sup> Year Student "Delulu is the Solulu"

#### **ABOUT**

Linda is a 3<sup>rd</sup> year university student studying business analytics. As she is in her final year, she has decided to find an internship to gain experience in the working world. She is fairly confident in her skills but remains relatively stressed due to her current existing workload.

#### **INTERESTS**

Anime

Talking with friends Bubble Tea

# **IDENTIFIERS**

Technically competent Average motivation and

resilience

#### **FEARS**

Statistics

Failing a module

Being unable to find a

job

#### **FRUSTRATIONS**

The crushing weight of societal expectations Broken sleep schedule

# 

# **NEEDS**

Clarity of instruction

Ease of navigation and familiarity to other similar sites



# **USER CLASS: Supervisor**

# **Spot Tan**

University Lecturer and Supervisor "If you have any questions please do not hesitate to ask."

#### **ABOUT**

Professor Spot has been a university lecturer and an industry professional for several years now. He was assigned to be a supervisor for student internships recently after the previous supervisor retired.

#### **INTERESTS**

Spending time with family Golf Exercising

#### **IDENTIFIERS**

Technically competent Average motivation and resilience

#### **FEARS**

Having too much work Not getting a pay raise Unruly children

#### **FRUSTRATIONS**

Having to work overtime New and unfamiliar interfaces

# **STATISTICS**











#### **NEEDS**

Clarity of instruction

Ease of navigation and familiarity to other similar sites

#### 3. Requirement Analysis: Task Analysis

TMS is effectively two websites at once. One exclusively for use by the students and the other used exclusively by the supervisors. This is because each user has vastly different goals within the same domain.

#### Identified Tasks:

#### - Goal

Register as a student assistant

#### - User

Student

#### - Preconditions

Student has logged into the student domain of the site

#### - Subtasks

Go to student profile

Select "Edit Profile"

Enter course, preferences, and capabilities

Click save

#### - Goal

Create new request

#### - User

Supervisor

#### - Preconditions

Supervisor has logged into the supervisor domain of the site

#### - Subtasks

Go to existing requests

Select "Create New Request"

Write request title and description

Enter request preferences and required skills

Specify any extra documentation required

Publish request

#### - Goal

Search for jobs

#### - User

Student

#### Preconditions

Student has logged into the student domain of the site

#### - Subtasks

Go to open requests tab

Select desired request

Click "Apply"

Submit extra required documentation

#### - Goal

Search for appropriate candidates

#### - User

Supervisor

#### - Preconditions

Supervisor has logged into the supervisor domain of the site

#### - Subtasks

Go to existing requests

Select request listing

View list of students who have applied to fill the request

Click "Accept Student"

#### - Goal

Accept job offer

#### - User

Student

#### Preconditions

Student has logged into the student domain of the site

#### - Subtasks

Go to applied jobs tab

Select job which has been offered by the supervisor

Accept (or Reject) the job offer

#### - Goal

Close project

#### - User

Supervisor

#### Preconditions

Project has been completed by student and Supervisor has logged into the supervisor domain of the site

#### - Subtasks

Go to ongoing requests

Select request listing

Click "Close Project"

Input feedback for student

#### - Goal

**View Notifications** 

#### - User

Student, Supervisor

#### - Preconditions

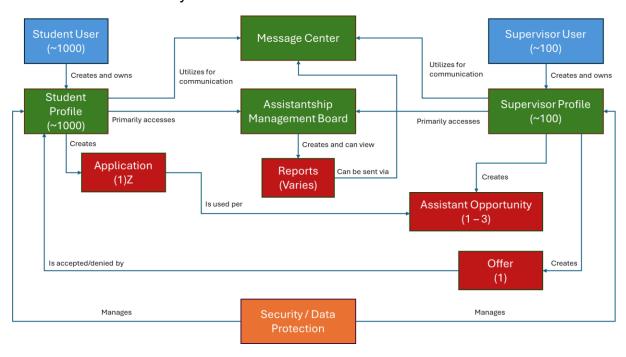
User has logged into the student domain of the site

#### - Subtasks

Click on messages tab at the bottom right of the website Select relevant request tab View notifications regarding said request Type out response message Send message

# 4. Requirement Analysis: Domain Analysis

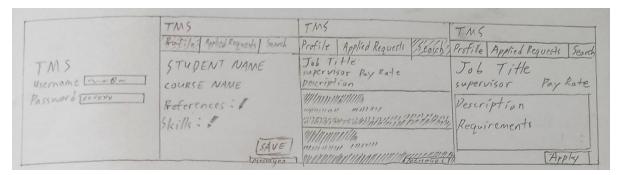
The domain analysis for TMS is as follows:



The two user classes of TMS are essentially using the site as a middleman to facilitate communication between the two parties.

# 5. Storyboards

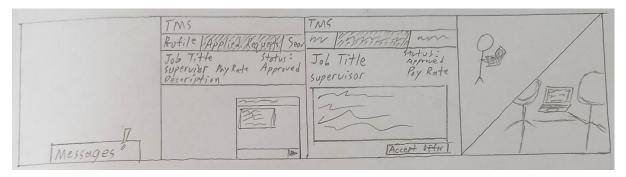
Student Side



Student logs into TMS website

Student fills in preferences and skills

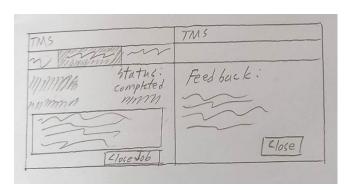
Student searches for requests filtered based on preference and skills Student reads request description and requirements and applies for the job



Student receives notification that an offer has been received Student goes to applied jobs tab to view approved job

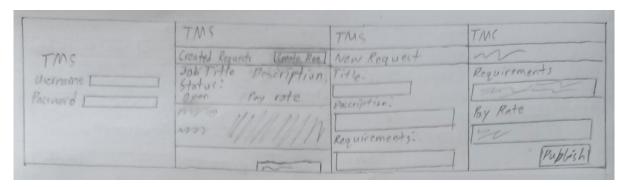
Student confirms acceptance of job offer

Student works on project in collaboration with supervisor



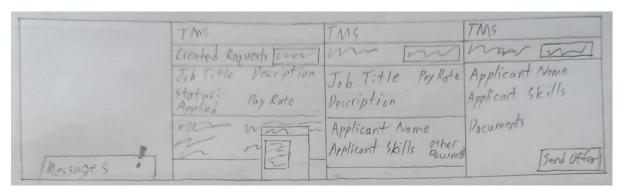
Upon job completion, the job status is set to completed Student can read feedback from supervisor before closing the job

#### Supervisor Side:



Supervisor logs into TMS

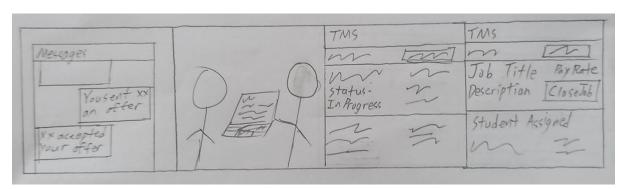
Supervisor clicks on Create Request button to create a new request Supervisor fills in the job title and details Once the job details are filled in, the Supervisor clicks Publish



Supervisor receives a notification that a student has applied

Supervisor goes to created requests and opens applied job listing Supervisor views list of applicants

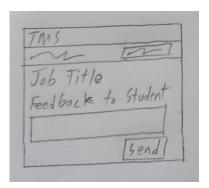
Supervisor selects student profile and sends offer to chosen student



Supervisor receives a notification that the student has accepted the offer

Supervisor works with student to complete the project

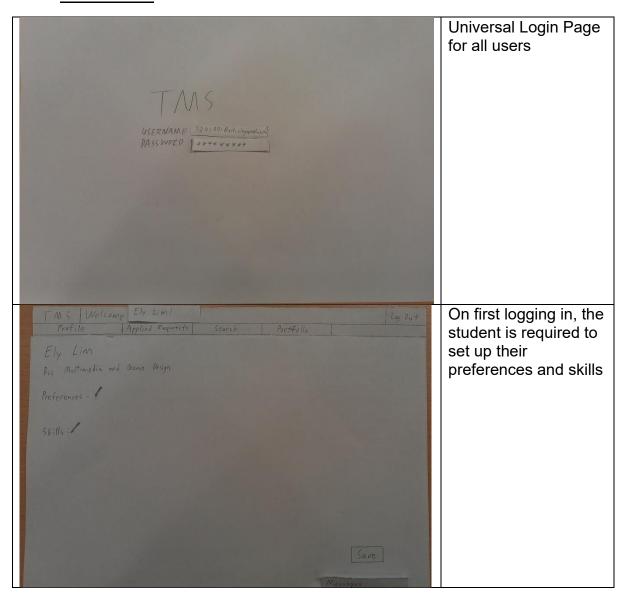
Upon project completion, the supervisor will select the job in progress Supervisor closes the job to finish the project

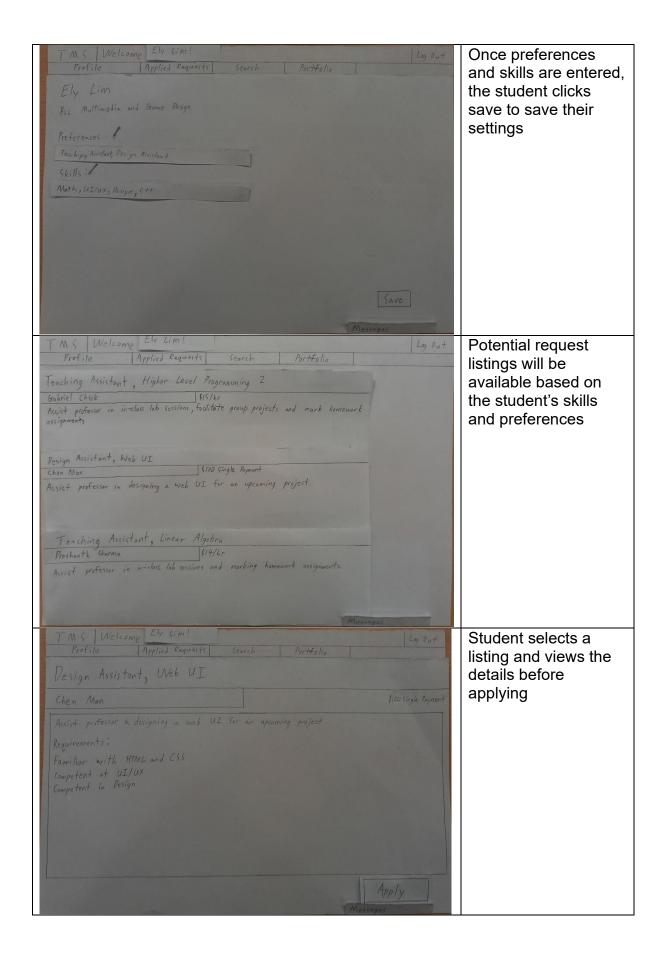


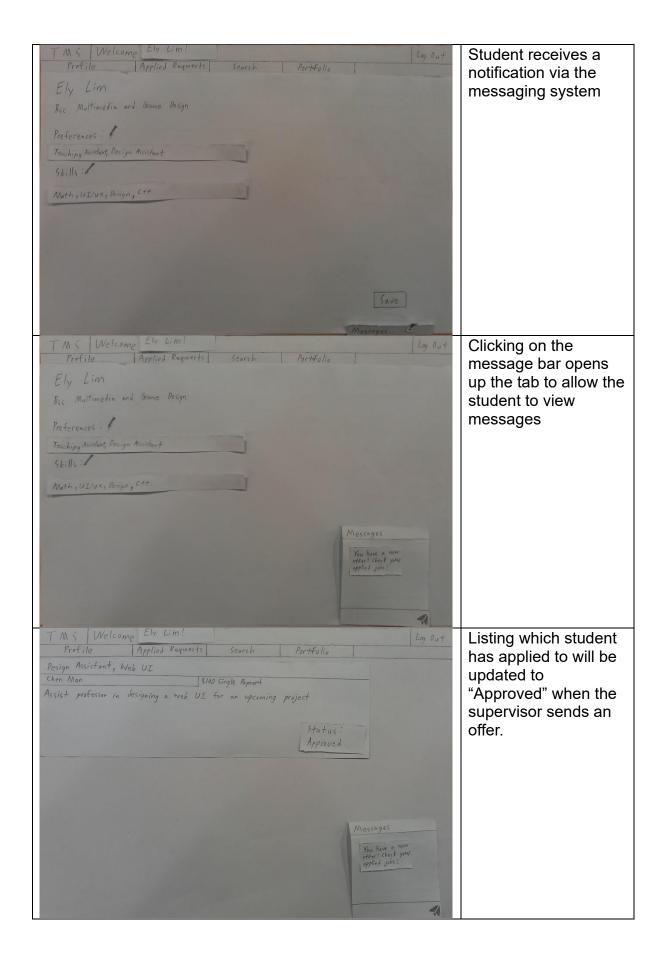
Supervisor issues feedback to the student upon project completion

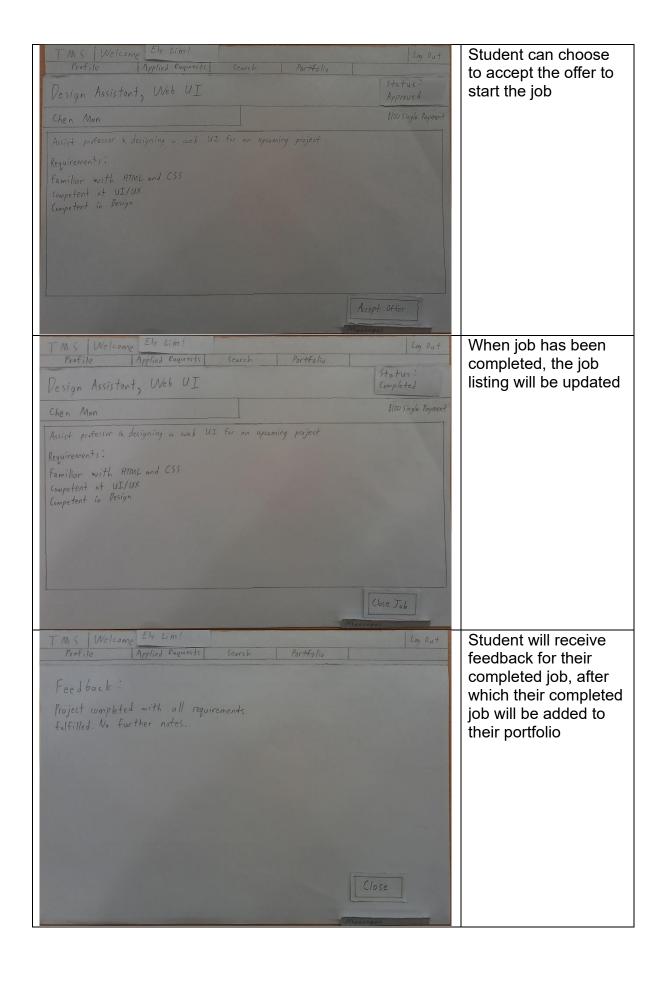
# 6. Paper Prototypes

Student side:

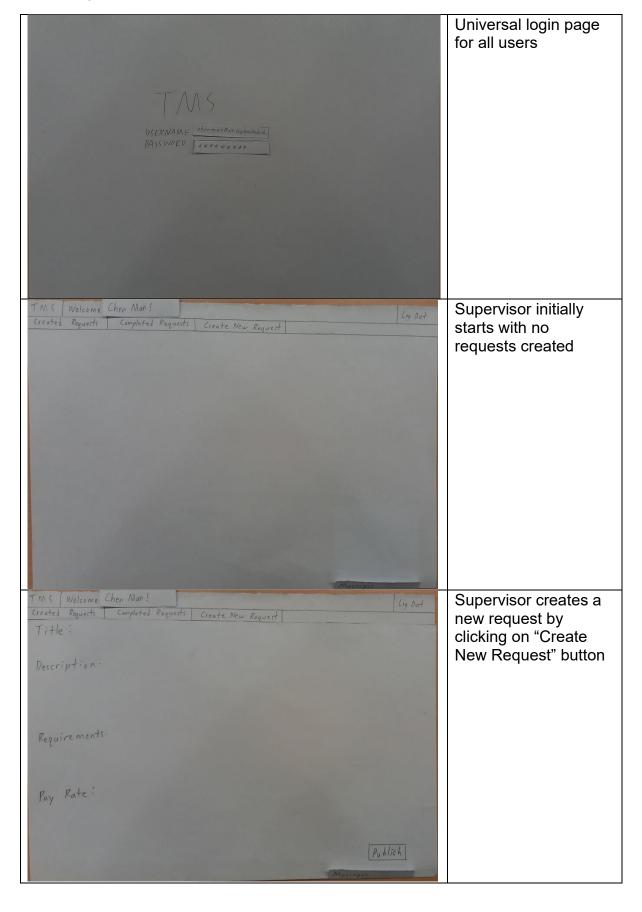


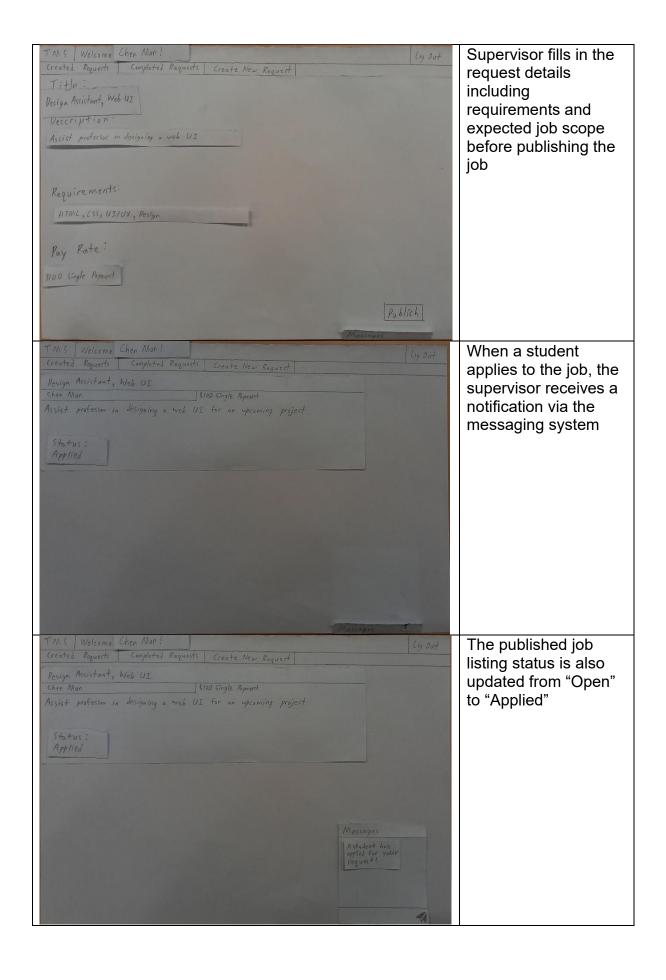


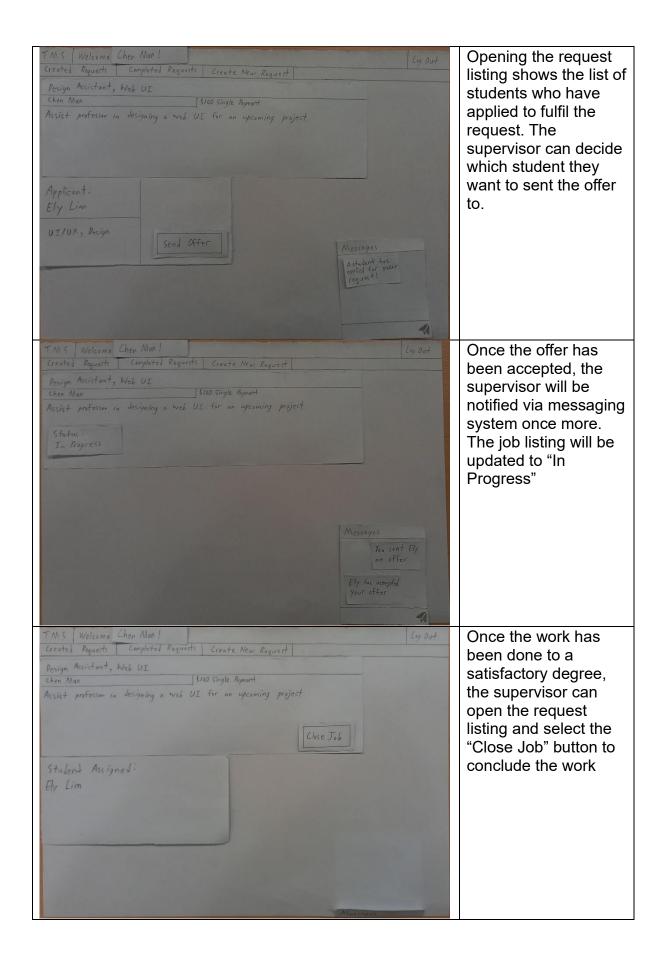


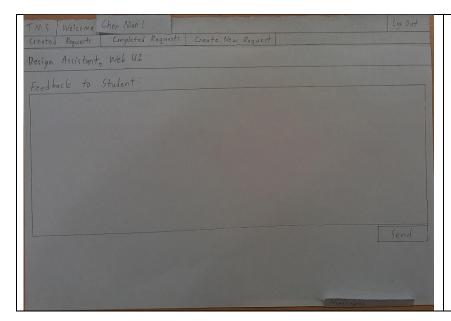


# Supervisor Side:







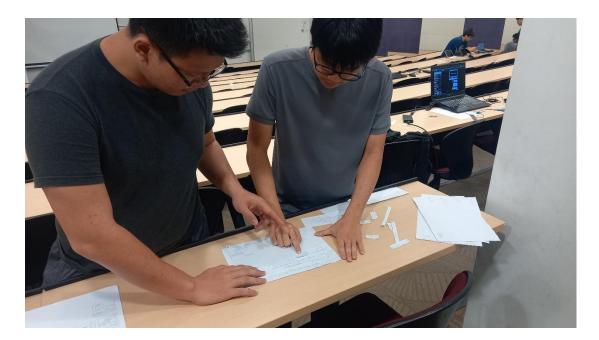


The supervisor may input feedback for the student as a summary of their work experience.

# 7. Prototype Testing

# Student side testing:

Classmates testing the student side of TMS noted that the simple and minimal layout of the site made navigation fairly simple and intuitive.



Some feedback that was noted was that students should have an option to cancel their application and reject a job offer in case of any unforeseen circumstances. Testers also noted that being able to distinguish between system messages and messages sent by their respective supervisors would be beneficial.

#### Supervisor Side:

Classmates testing the supervisor side of TMS also felt that the layout of the site was easy to navigate and intuitive.



Feedback of note was that the supervisor would need separate message tabs for the multiple students that they might potentially be overseeing. The ability to close a request listing before any student applied for it was also highlighted as a feature that would be good to have.

#### 8. Conclusion

Adjustments from the current paper prototypes are as follows:

Allow students to cancel their application or reject an offer with a valid reason given.

Allow supervisors to cancel their published requests

Create a more robust messaging system that allows both users to better distinguish between different channels. (Refer to facebook messenger or Instagram messenger for design changes)