Project Proposal
Computer Science Project COMP3900 20T1

Team: 3900capstone
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I. Background/Problem Domain

As a university student, one of the main concerns is purchasing textbooks every new semester. New textbooks are expensive, and only used for a semester. Therefore, many of the students prefer purchasing a second handed textbook. Currently, facebook textbook exchange group is the only place available for UNSW students to buy and sell, which is not reliable. Thus we decided to create a safe and reliable platform for UNSW students to buy second handed textbooks. We confirm reliability by confirming it is a platform accessible by UNSW students only. In addition, students are allowed to compare all the available products posted on the platform and purchase the choice that best fits their needs (e.g. cheapest/cleanest).

II. Aim

- Our team's common goal is to create a second-hand book trading platform belonging to the University of New South Wales.This platform allows students to freely buy, sell and search for second-hand books on the platform according to their own requirements, so as to quickly get useful information. The platform will also achieve maintainability, practicality, security, and aesthetics.
- There are currently many second-hand book trading platforms, and our platform will have the following two significant features

    1.Specificity

    The original goal of this site was to serve students at the University of New South Wales, where students can find whatever second-hand books they need and make it easier to sell.

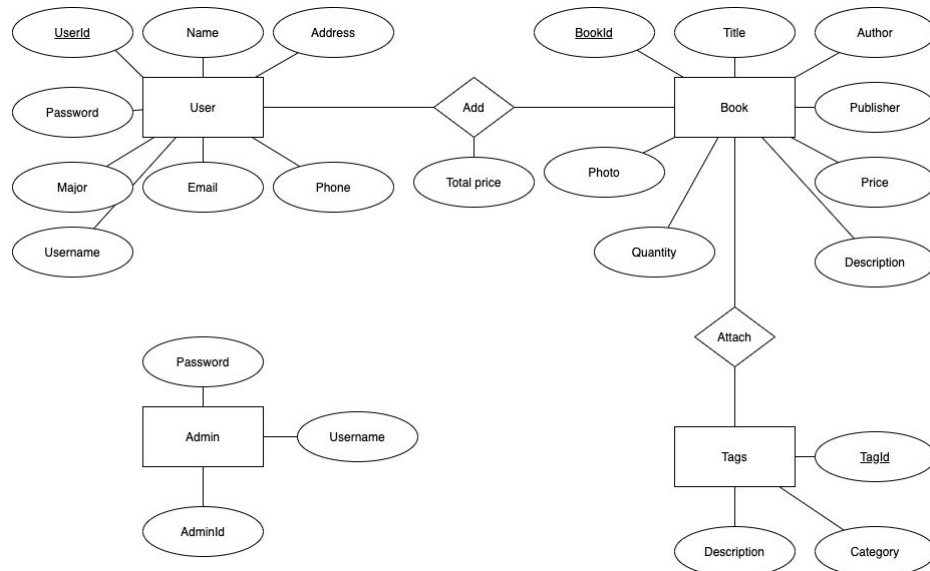   2.Flexible trading methods

    Customers can flexibly choose transaction methods according to their own time and needs. For example, if you want to check the quality of books, you can choose offline transactions, and if you are far away, you can choose post.
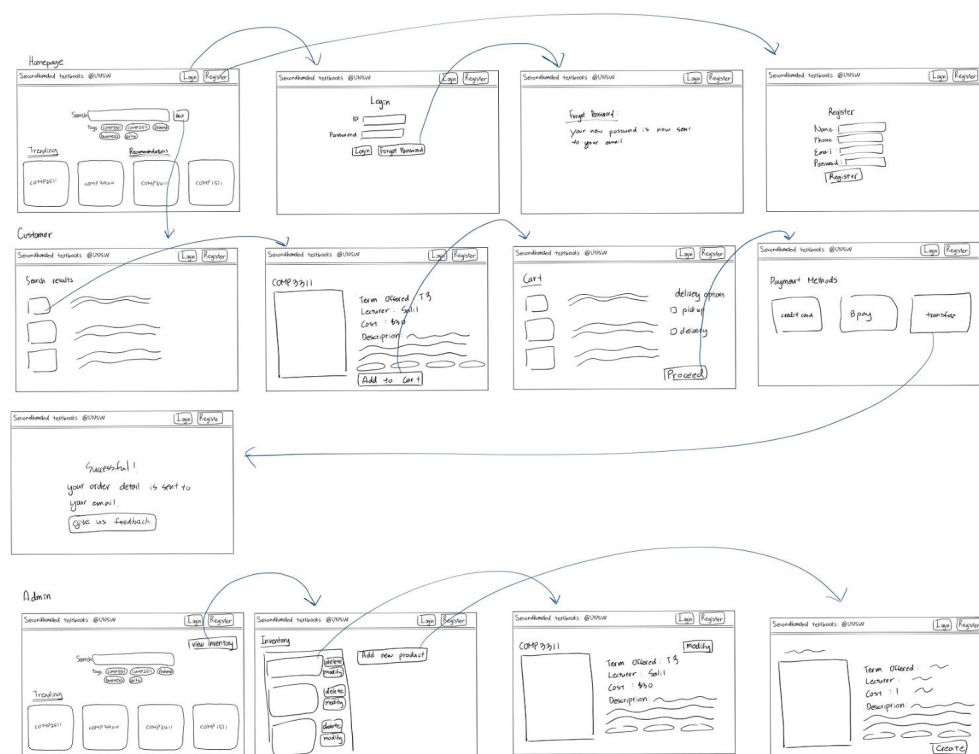
III. Scope/technical details

- Our system will allow users to search books by keyword and/or tags. For instance, users can select preset tags to filter out only books that match with the selected tags. Furthermore, they can type their own keywords like book titles to search for a specific book.

- We are going to have personalized recommendations for each of the users based on their major Along with trending textbooks, which is going to be based on top selling textbooks.

- ER diagram

IV. System modules and flow

V. Epic story

Priority System (LOW NUMBER = HIGH PRIORITY)

1 - Critical (System must have it to function)

2 - Important (System can function without it but brings large benefit to user)

3 - Useful (Features that could be included to improve system slightly)

4 - Optional (Features that do not need to be implemented urgently)

Estimate Key (1 story point = 2 hours)

Epic Story 1:

ID	ES 1
Name	User Authentication
User-Story Description:	
As a customer, I want to be able to register on the website and login to use the platform based on my role.	
Estimate	7.5
Priority	1

ID	US 1.1
Name	User registration
User-Story Description:	
As a customer, I want to be able to register to the website.	
Acceptance Criteria:	
● Should be requested for username, password, email, phone number as well as the major(for personalized recommendations). ● Password should be 8 characters long, including at least one Upper case letter and 1 digit. ● Should be able to receive email confirmation once successfully registered.	
Estimate	1.5

Priority	1

ID	US 1.2
Name	User login

User-Story Description:

As a customer, I want to be able to login to the website.

Acceptance Criteria:

- Should be able to login to the website using registered username and password.
- Should be displayed with respective functions based on the role upon login.

Estimate	2
Priority	1

ID	US 1.3
Name	Forget password

User-Story Description:

As a customer, I want to be able to login to the website when I forget the password.

Acceptance Criteria:

- Should be able to receive a system generated password through email.
- Should be able to login using username and received password.

Estimate	1.5
Priority	2

ID	US 1.4
Name	Change password

User-Story Description:

As a customer, I want to be able to change my password.
Acceptance Criteria: ● Should be asked for the old password as well as a new password.   ● Should not be able to login with the old password.   ● Should be able to login with the new password.

Estimate	1.5
Priority	3

Epic Story 2:

ID	ES 2
Name	User

User-Story Description:
As a customer, I want to be able to buy second handed textbooks on the platform.

Estimate	12.5
Priority	1

ID	US 2.1
Name	Search book

User-Story Description:
As a customer, I want to be able to search for books based on selected tags and/or titles/course code.
Acceptance Criteria: ● Should be able to choose multiple tags.   ● Should be displayed with accurate search results based on the tags selected and/or book title typed.

Estimate	2.5
Priority	2

ID	US 2.2
Name	Add to cart

User-Story Description:

As a customer, I would like to add a book to cart so it's easier to find in the future or to make payment later.

Acceptance Criteria:

- Should be able to add multiple books to cart.
- Should be able to view all added books whenever logged in.
- Should be able to delete any book from saved books.

Estimate	3
Priority	1

ID	US 2.3
Name	Recommendation

User-Story Description:

As a customer, I would like to see recommendations based on my major.

Acceptance Criteria:

- Should be able to see all posts that are tagged with the major.
- Should be able to see top selling books.

Estimate	1.5
Priority	2

ID	US 2.4
Name	Payment

User-Story Description:

As a customer, I would like to make payments from my cart.

Acceptance Criteria:

- Should be displayed with correct payment details
- Should be able to choose from various payment methods.(credit card, paypal etc.)
- Payment confirmation should be sent to the user after successful payment.

Estimate	3
Priority	1

ID	US 2.5
Name	Feedback

User-Story Description:

As a customer, I would like to give feedback based on my experience.

Acceptance Criteria:

- Should be able to pick different types of feedback. (refund, request a book, others etc.)
- Feedback will be sent to admin's email.

Estimate	2.5
Priority	2

Epic Story 3:

ID	ES 3
Name	Administration

User-Story Description:

As an admin I would like to make sure all the pending products are confirmed.

Estimate	7

Priority	1

ID	US 3.1
Name	Add a new book

User-Story Description:

As an admin, I would like to be able to add/delete a book.

Acceptance Criteria:

- Should be able to provide book title, author, publisher, description, photos and add tags to the book.
- Added books should be viewable by users.

Estimate	3
Priority	1

ID	US 3.2
Name	Modify tags

User-Story Description:

As an admin, I should be able to add/remove/modify tags.

Acceptance Criteria:

- Tags should be consistent, accurate and valid.

Estimate	1.5
Priority	2

ID	US 3.3
Name	View inventory

User-Story Description:

As an admin, I should be able to view/edit inventory logs.

Acceptance Criteria:

● Should be able to view book titles, copies left. ● Should be able edit details of a certain book. ● Should be able to delete a certain book.	
Estimate	2.5
Priority	1

VI. Team skill set
- **Language:** Python, HTML
- **Strengths:** Communication, organisation, teamwork, project management

VII. Weekly meeting times
- Monday 12pm-2pm
- Wednesday 12pm-2pm (during lab)

VIII. Sprints Schedule
- Week 3-4: Front-end design, task on epic1 assigned, working on epic 1.
- Week 5-6: Finalize epic1, assign tasks for epic2, working on epic 2.
- Week 7-8: Finalize epic2, assign tasks for epic3, working on epic 3.
- Week 9-10: Finalize all the epics, prepare for the final demo.