Assignment 1: Charter, Scope, and Requirements Document

Project 1: API Development and Testing
University of British Columbia Okanagan
COSC499 - Summer 2022

Date: May 27, 2022

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1. Project Objective

HelpYa is a trade service procurement app that connects clients and businesses. Using the platform, customers will be able to purchase, search, and negotiate services with the business of their choosing. The client would like to design and develop a backend for an ios app for now with plans for cross-platform for android and the web in the future. During our time in capstone, our scope is to create an API that can handle login authentication, create delete updates and report user information and is able to handle monetary transactions

2. Stakeholder List

- Harrison Larson
- Thomas Pattison
- Bright Anorchie
- Scott Fazackerley (UBC)
- Project team

3. Major Milestones

1. Make a database to handle a large user base and link it to the API (June 15)
2. Have a workable demo that can make purchases from client to seller (July 13)
3. Add fields like location or business owner to the API. System recovery feature. Possibly add more features depending on time (August 20)
4. QA all features and systems (August 25)

4. Requirements

4.1 Functional Requirements

- Users can log in to the platform using a valid account previously created
- Consumers can make transactions on the app to pay businesses they employ
- A search feature allows a user to hunt among various businesses to find the type of trade work theta re looking for

- Business users can purchase ad space on the news tab and
- Both users can save credit card and baking information on the platform for making purchases and receiving payment

4.2 Non-Functional Requirements

- One platform for both business and customer. When users open the app and try to make an account
- Have the software capable of supporting 1000 users without any performance degradation
- Users and Admin can create, see, update and delete information on their profile
- Have the system be able to easily recover from crashes and make routine backups of data

4.3 Technical Requirement

- Database to store update and delete account and banking information
- Node.js will be sued to make the API that will handle all requests from the front end to the database and login authentication
- output from API is in JSON so can be queried by back end
- Ensure the software is cross-compatible and able to launch on different systems in the future.

4.4 User Requirements

- The app will have 2 types of accounts a business account and a consumer account
- Upon opening the app both types of users will be asked to log in with their valid account credentials i.e username or password OR be asked to create an account
- **Business Account**
  - **Creating an Account**
    - To create a business account the user will need to enter there:
      - First Name [text box]
      - Last Name [text box]
      - Company Name [text box]
      - Business Phone Number [text box]
      - Business email [text box]
      - Create Password [text box]
      - Confirm Password [text box]

- - - Once the above fields are complete the next step would be to select a business category and then further details about the business and themselves that are:
      - How long have they been in business [text box]
      - Date of birth [drop down]
      - Price type (hourly, weekly or monthly) [drop down]
      - Price [text box]
      - Location [drop down]
      - Education Level [drop down]
      - Biography [text box]
      - Photos [toggle switch]
      - Keywords [drop down]
      - Agree to terms and services [check box]
    - After which they will be asked either to sign up for a trial of the business subscription
    - After selecting yes they wil be asked if they have a coupon and then their payment details which include
      - Billing Address Line 1 [text box]
      - Billing Address Line 2 [text box]
      - Country [text box]
      - Province [text box]
      - City [text box]
      - Postal Code [text box]
      - Payment Type (Visa, Master Card) [text box]
      - Name on Card [text box]
      - Card Number [text box]
      - Expiration Date [text box]
      - CVV [text box]
    - After completing this step they will have created their account and will be directed to there profile screen
  - **Profile**
    - Users can change there profile pic
    - Create promotions for their business for a fee or delete said promotions
    - Users can create or draft stories (temporary business adverts) that will go through an approval process
    - Users can view business analytics such as money made per daily weekly or monthly
  - **Messages**
    - Users can reply to business enquiries from consumer users
    - Later iteration will have the ability to set up special offers via the messaging service

- **Consumer User**

- **Creating an Account**
  - To create a Consumer account the user will need to enter there:
    - First Name [text box]
    - Last Name [text box]
    - Phone Number [text box]
    - Email [text box]
    - Create Password [text box]
    - Confirm Password [text box]
  - The user will then be asked to submit a profile picture but is free to decline
  - Once completed the user will get a Sucess screen and be directed to the Home Screen
- **Home Screen**
  - The home screen will show Recent searches, Suggested and feature businesses
- **Search**
  - for searching the user can type the name of the business they are looking for and fill in filters which are:
    - Category [drop down]
    - Experience [drop down]
    - Price type [drop down]
    - Price [text box]
    - Pictures [toggle switch]
    - Paid Ads [toggle switch]
    - Location [drop down]
    - Distance [horizontally aligned radio buttons]
    - Education level [drop down]
    - Keyword [drop down]
  - Once entered and clekced the search button the user will get a list of all businesses fitting there criteria
- **News**
  - Top most viewed stories on the platform
  - Featured contains popular streis according to searched tag
  - For you section contains stories from used businesses
- **Messages**
  - Users can message to business users about any questions they might have
  - Later iteration will have the ability to set up special offers via the messaging service
- **Profile**
  - Add, report, update and delete all information given at the time of making an account

- ■ Able to access make stories and view business analytics but asked to upgrade to a business account on doing so.

5. Assumption

- ● Every team member finishes their task on time
- ● Every team member has skills in certain coding languages
- ● Communication is open and effective
- ● All milestones are met
- ● The program delivers to the clients on time

6. High-Level Risks

- ● Team members drop the course
- ● Team members get sick and absent
- ● Lack of communication in the team
- ● Low morale in team
- ● Finishing coding in parts that can not combine in a whole
- ● Dependants are not finished
- ● Could not meet client's requirements
- ● Lack luster work
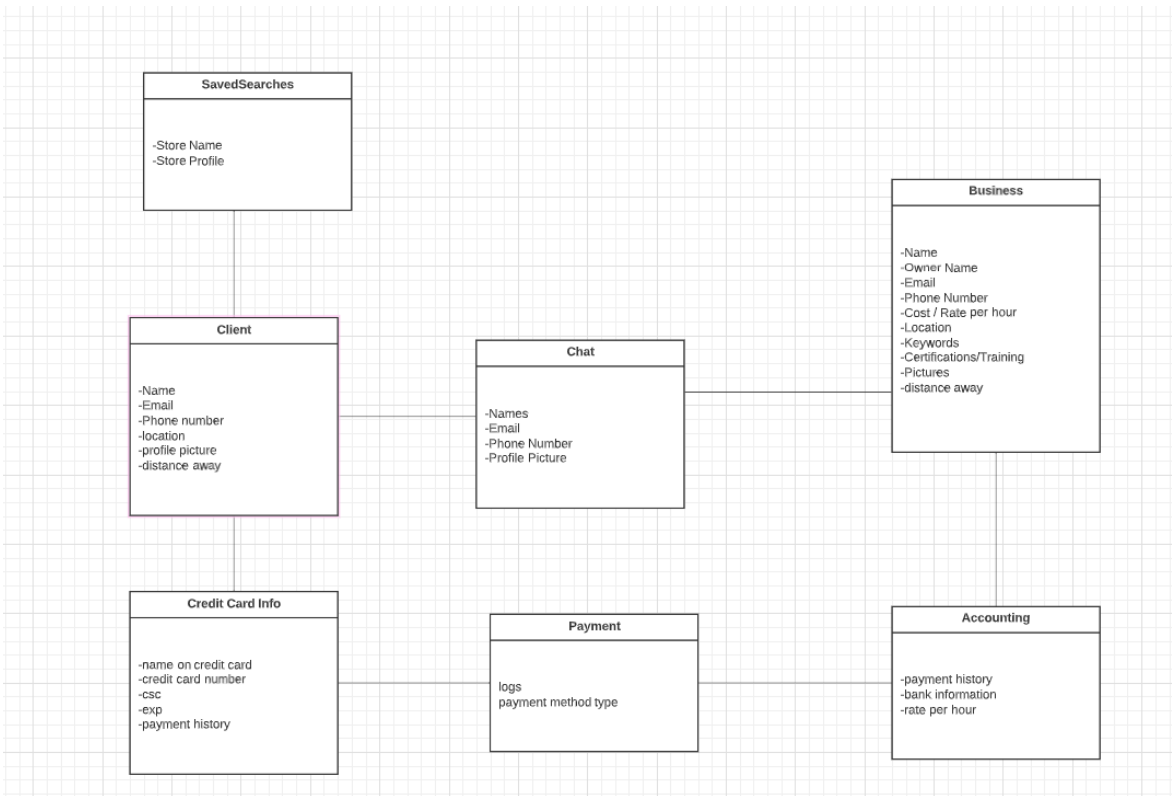- ● Lack of communication with clients

7. Workflow and methodology

We will discuss requirements, design solutions, code solutions, test solutions with clients, and get feedback from clients. Our team will use Kanban as our project workflow and we will have weekly meetings for the team. Every Thursday at 5:00 pm we will have a meeting with our clients. When adding a new feature the person creating the feature will fork from the love branch on GitHub. On completion, they will make a pull request which the integration manager will have a look at and push onto the main branch
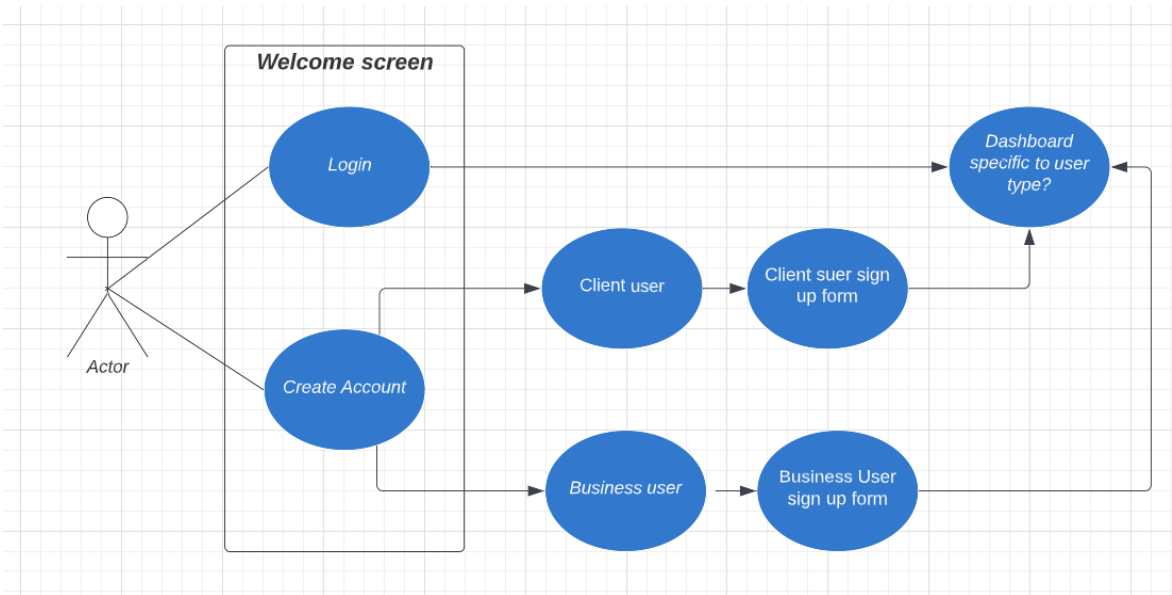
8. User Group and UML Diagram

The target user group would be the companies or personal industries that are struggling to get more views and link popularity. The app will promote and advertise their names and descriptions throughout the mobile beauty market.
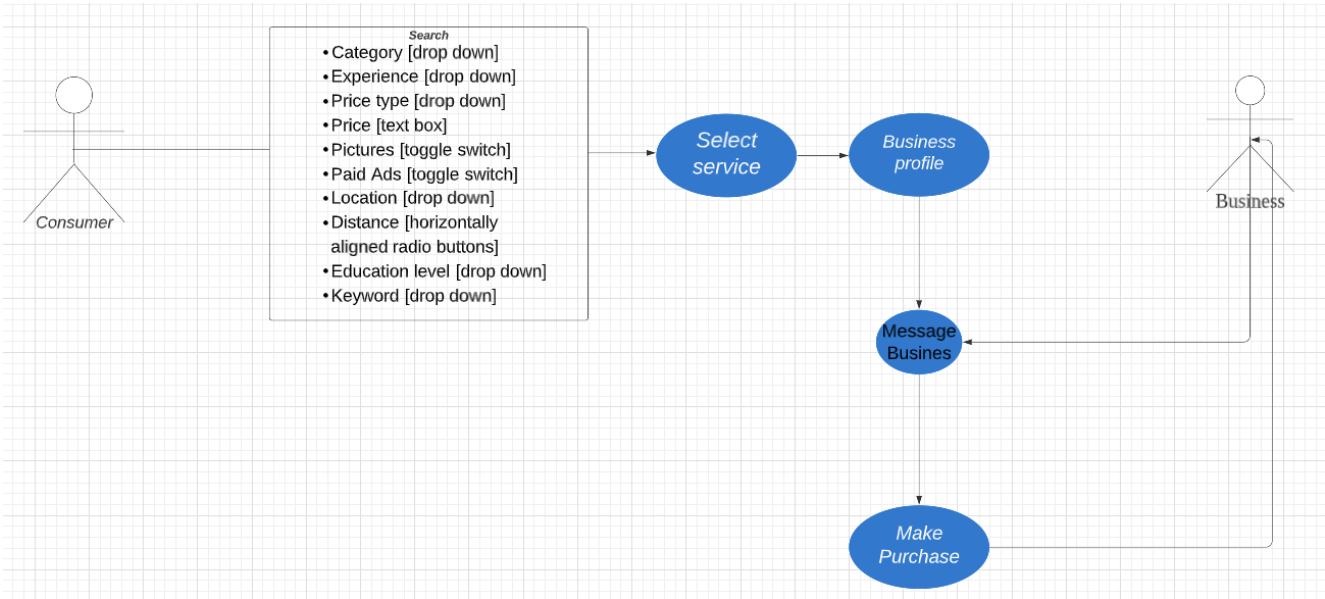
UML Diagram:

SavedSearches

-Store Name
-Store Profile

Business

-Name
-Owner Name
-Email
-Phone Number
-Cost / Rate per hour
-Location
-Keywords
-Certifications/Training
-Pictures
-distance away

Client

-Name
-Email
-Phone number
-location
-profile picture
-distance away

Chat

-Names
-Email
-Phone Number
-Profile Picture

Credit Card Info

-name on credit card
-credit card number
-csc
-exp
-payment history

Payment

logs
payment method type

Accounting

-payment history
-bank information
-rate per hour

Create Account Use case diagram

Welcome screen

Login

Create Account

Actor

Client user

Business user

Client suer sign up form

Business User sign up form

Dashboard specific to user type?

Purchasing Use Case Diagram

Business Use Case Diagram
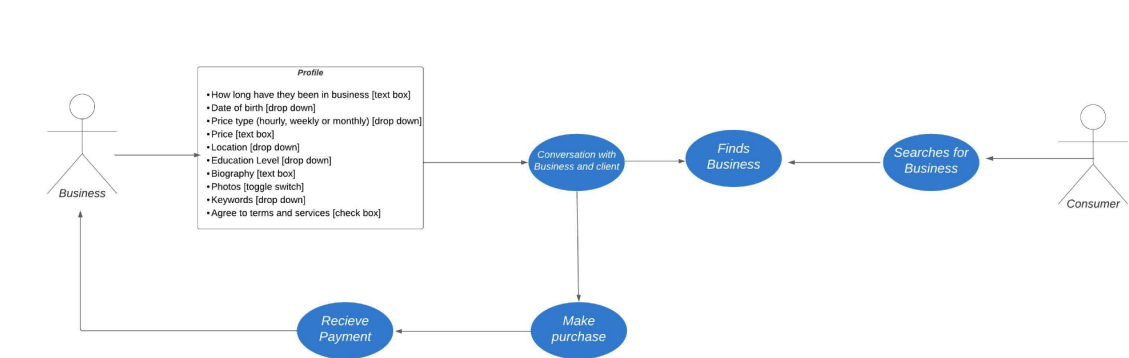
9. Work Breakdown Structure

Task List	Average Hours			
	Wasi	Calvin	Pochia	Austin

Functional Requirement				
Database and back-end	2			4
Initializing databases with required tables and columns	4		2	5
Setting up the back-end starter code and choosing tech stack.	2		2	
Making connections between back-end and database.	3		2	3
Adding and deleting feature	2		2	3
Data encryption.	3	3	2	
Meetings				
Client meeting weekly	1			
Team meeting weekly	3	3	3	3
Testing				
Front-end testing	2	2	2	
Back-end testing	2	2	2	2
Integration testing	1	1	1	1

Usability tesing	1	1	1	1
Documentation				
Scope and chartar document	1	5	5	1
Final report	5	5	5	5
Testing report	2	2	2	2
Peer evaluation Report	2	2	2	2
Readme file	1	1	1	5

10.Approval

Project Sponsor Signature _____

Project Manager Signature _____