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1. Project Description :

The FoodBuddy application will provide its user the ability to select a restaurant and search for a buddy/partner who can join him/her for food. The user can search for a new available buddy or can select buddy from the list of his/her favourite buddies. User can check the profile of any buddy(new or favourite one) before choosing that buddy. The user has to send request to the buddy for joining him/her for the food and the buddy has the right to accept or decline the request. The buddy can also check the profile of user who sent the request before confirming the request. After accepting the request buddy and user can chat via FoodBuddy app to decide the type of food, date & time of meeting and the app will provided the list of restaurant along with the menu to the user from which user can select any and confirms that restaurant with the buddy.

Scrum Agile framework will be followed throughout the development of food-buddy application. The project will be divided into 3 sprint, each sprint will last for 2 to 3 weeks. Each sprint will be build on top of previous sprint. Deliverable or prototype will be reviewed after every sprint so that new requirement or change in previous requirement can be done easily.

1.1 Planned Sprint Timeline :

Sprint	Dates
0	September 8, 2019 - September 29, 2019
1	September 30, 2019 - November 17, 2019
2	November 18, 2019 - December 15, 2019

2. Requirements :

2.1 User Stories Backlog :

The FoodBuddy application will provide its user the ability to select a restaurant and

ID	NAME	POINTS	PRIORITY
FBY-1	As a user I want to login with my previous credentials so that I can see my profile progress.	1	High
FBY-2	As a user I want forget password functionality so that I can reset my password at any time.	3	High
FBY-3	As a user I want to see the list of available users at top in the list of total user so that I can easily find my buddy.	3	High
FBY-4	As a user I want to see the list of different restaurant along with opening and closing hours so that I can easily select restaurant.	5	High
FBY-5	As a user I want to see the profile of other users so that I can get details of users before sending invite request.	8	High
FBY-6	As a user I want to be notified whenever I get invitation from other user so that I can reply to invitation as soon as I get the request.	3	Medium
FBY-7	As a user I want the edit profile functionality so that I can change my profile field as needed.	8	Medium
FBY-8	As a user I want chat option with other user before sending invitation request.	5	Low

FBY-9	As a user I want to hide my mobile no. from other user.	5	Low
FBY-10	As a user I want to see the timing details of each restaurant so that I can easily finalize the restaurant.	8	Medium
FBY-11	As a user, I want to be able to view details(menu, address etc) about selected restaurant so that I can all the information about the place and decide if I should choose it.	3	High
FBY-12	As a user, I want to be able to be enjoy an aesthetically pleasing and intuitive user interface design so that I can easily use and navigate the application.	8	Lowest
FBY-13	As a user, I want to be able to sign out my account/profile from the application, so that other users(friends) can login their account in the same device.	4	Medium
FBY-14	As a admin, I want to create a good schema of my application in mysql, so that the user data can be easily stored and retrieved.	8	High
FBY-15	As a user, I want the ability to change my availability option in the app, so that whenever I'm not available, I can set my availability as offline.	5	High
FBY-16	As a user, I want the allow and disallow option for notification, so that I can disable notifications whenever I am busy.	4	Low
FBY-17	As a user I want to be able to open a new instance of the application, see a splash screen and see a Landing page so that I can navigate to other features.	5	High
FBY-18	As a user, I want to see signup option at landing page, so that I can register my profile in the application.	4	High

2.2 Functional Requirements

1. A customer shall be able to login on the application using previous credentials.
2. A customer shall be able to sign-out from the application.
3. A customer shall be able to register on the application.
4. A system should provide password resetting service to the customer.
5. A system should provide the list of available buddies to the users.
6. The user shall be able to check profile of other users.
7. The user shall be able to send and receive messages to and from other user.
8. The user should be provided the functionality of editing their profile fields.
9. The user shall be able to send invitation request to other available user.
10. An application should provide restaurants list to all users.

2.3 Non-Functional Requirements

1. A user shall not be able to log into more than one device at any given instance of time.
2. Passwords shall never be viewable at the point of entry or at any other time.
3. The system should prompt reset password whenever a user types wrong password 3 times.
4. The password length should be minimum 8 characters includes min one capital letter, number and small letters.
5. Unless the system is non-operational, the system shall present a user with notification informing them that the system is unavailable.
6. The system should authenticate the customer's username and password within 4 seconds.
7. The system shall not be shut down for maintenance more than once in a 24-hour period.
8. When a new version of the main system is released, it shall be possible to upgrade to it from any previous version.
9. Installing an upgrade shall not modify existing profile/configuration values of the customer's account.
10. The customer can edit profile at any time and the system should update profile within 4 seconds.

3. Release Planning

3.1 Sprint 1 Summary (Sept 8 - Sept 29)

The goal in Sprint 1 is to tackle the login, signup and forget password features of the application where the user can register his/her profile to the application. The user profile is stored in the database server which is connected to the database. These stored credentials are used by the user to login in the application. If the user forgets his/her password than the reset can be used by the user to reset the password.

Sprint 1 will include the basic project setup, which involves the creation of a splash screen, landing page(login page), reset password page and signup page. Mysql database is connected to the application using Xampp server and phpmyadmin.

3.1.1 User Stories For Sprint 1

ID	NAME	POINTS	PRIORITY	STATUS
FBY-17	As a user I want to be able to open a new instance of the application, see a splash screen and see a Landing page so that I can navigate to other features.	5	High	DONE
FBY-18	As a user, I want to see signup option at landing page, so that I can register my profile in the application.	4	High	DONE
FBY-1	As a user I want to login with my previous credentials so that I can see my profile progress.	1	High	DONE
FBY-2	As a user I want forget password functionality so that I can reset my password at any time.	3	High	DONE
FBY-14	As a admin, I want to create a good schema of my application in mysql, so that the user data can be easily stored and retrieved.	8	High	DONE

3.2 Sprint 2 Summary (Sept 30 - Nov 17)

The goal in Sprint 2 is to tackle the main features of the application where the user can see list of buddies, restaurant etc and use the main functionality of the application. The user will be displayed the list of available buddies as he/she signin or signup to the application. The user can edit or sign-out his/her account from the application. The list of available restaurant will also be displayed to the user.

Sprint 2 will also include the implementation of other functionality like changing the availability, turn off the app notifications, check profile of other users and check details of any restaurant.

3.2.1 User Stories For Sprint 2

ID	NAME	POINTS	PRIORITY	STATUS
FBY-3	As a user I want to see the list of available users at top in the list of total user so that I can easily find my buddy.	3	High	DONE
FBY-4	As a user I want to see the list of different restaurant along with opening and closing hours so that I can easily select restaurant.	5	High	DONE
FBY-5	As a user I want to see the profile of other users so that I can get details of users before sending invite request.	8	High	DONE
FBY-7	As a user I want the edit profile functionality so that I can change my profile field as needed.	8	Medium	DONE
FBY-9	As a user I want to hide my mobile no. from other user.	5	Low	DONE

FBY-10	As a user I want to see the timing details of each restaurant so that I can easily finalize the restaurant.	8	Medium	DONE
FBY-11	As a user, I want to be able to view details(menu, address etc) about selected restaurant so that I can all the information about the place and decide if I should choose it.	3	High	DONE
FBY-13	As a user, I want to be able to sign out my account/profile from the application, so that other users(friends) can login their account in the same device.	4	Medium	DONE
FBY-15	As a user, I want the ability to change my availability option in the app, so that whenever I'm not available, I can set my availability as offline.	5	High	DONE
FBY-16	As a user, I want the allow and disallow option for notification, so that I can disable notifications whenever I am busy.	4	Low	DONE

4. USER INTERFACE DESIGN

4.1 USER PERSONA :

4.1.1 Ajit Dhdharia :

25 yrs old, android developer

Ajit is an student at Cegep college, doing his mobile application development diploma. He is very much fond of different foods. As an international student he is not familiar with the new people, culture and food. Meeting new people, sharing time and food with them, will be a great opportunity for him to learn new things and gain experience.

4.1.2 Murry Thompson :

50 yrs old, cook

Murry is a cook by profession at st. Hubert. As he is unmarried, he always need someone to share the evening after work. Trying food at different places with different people will not only make his evening enjoyable but also help him to get feedback from his buddies regarding food.

4.1.3 Pintu Jaat :

27 yrs old, photographer

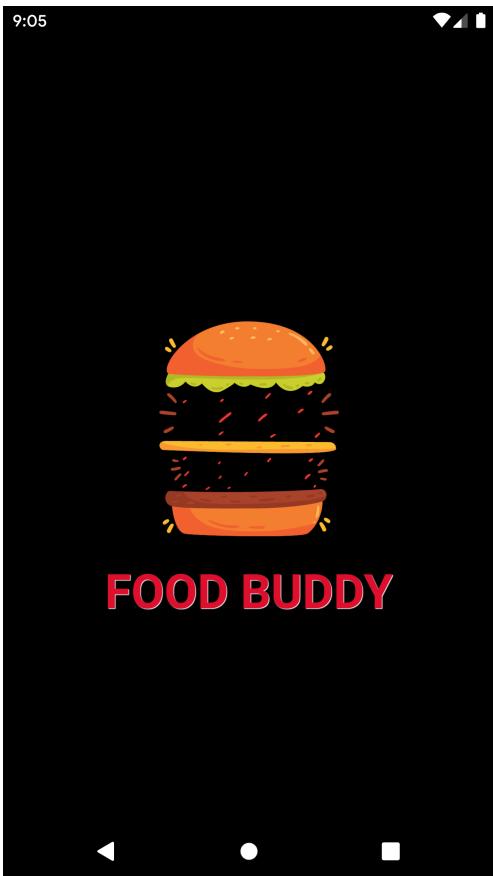
Pintu is a photographer by profession. Due to work, he travels alot. At each new place, he needs someone who is familiar with the place and can guide him to get good food, which makes his travelling or journey more enjoyable.

4.1.4 Jordan :

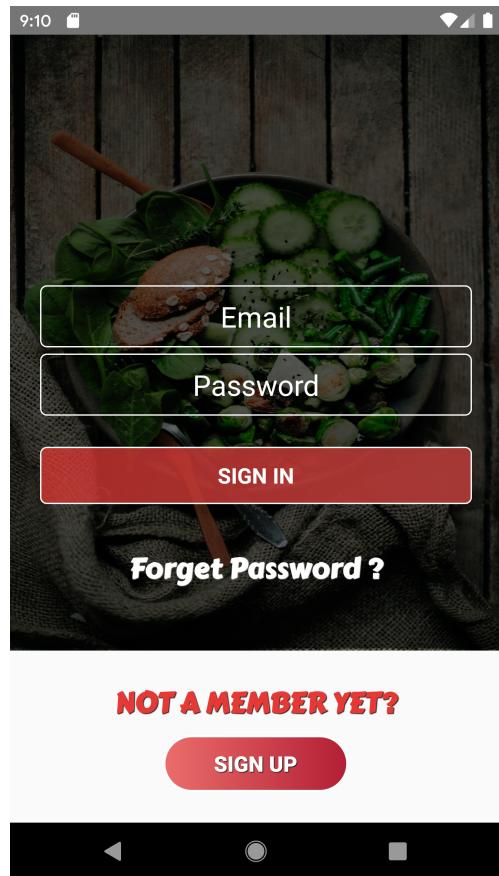
35 yrs old

Jordan is a owner of Bombay Mehal restaurant. He is good competitor in his business. He regularly visit other restaurant and meet people to enhance the service of his restaurant.

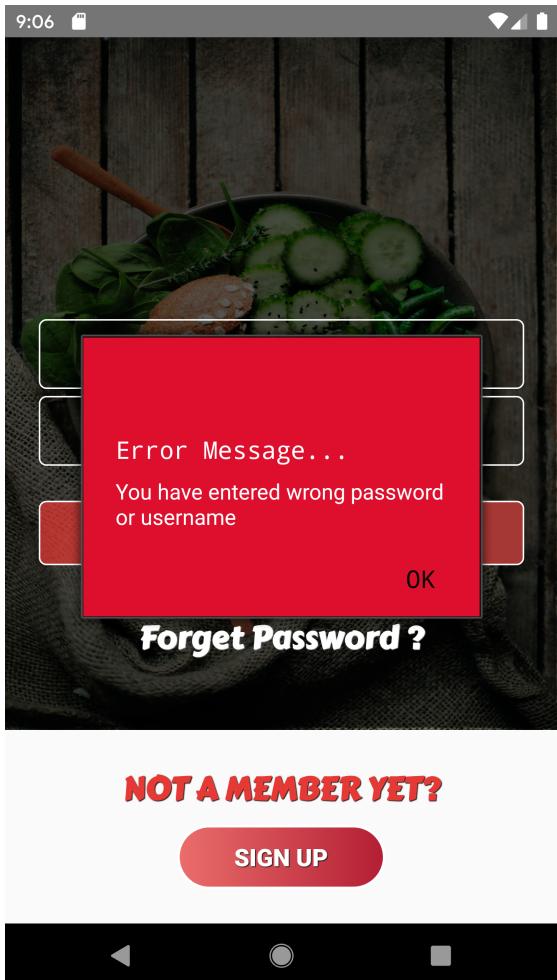
4.2 Food Buddy - UI Mockups



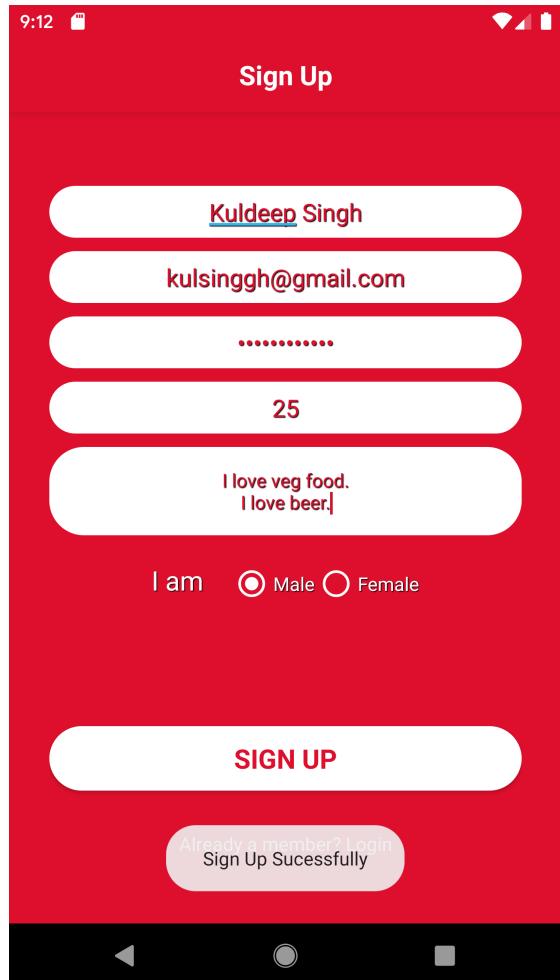
SPLASH SCREEN



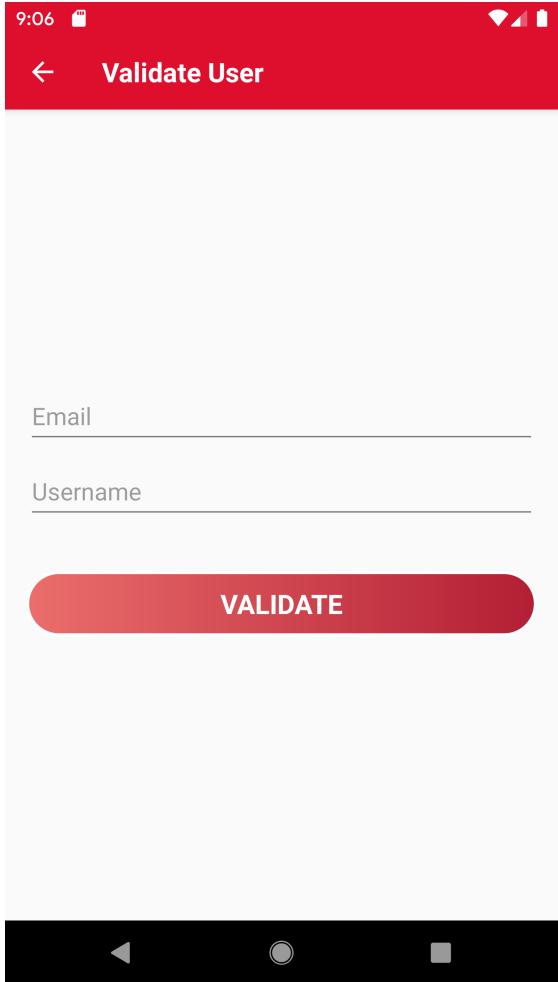
LOGIN SCREEN



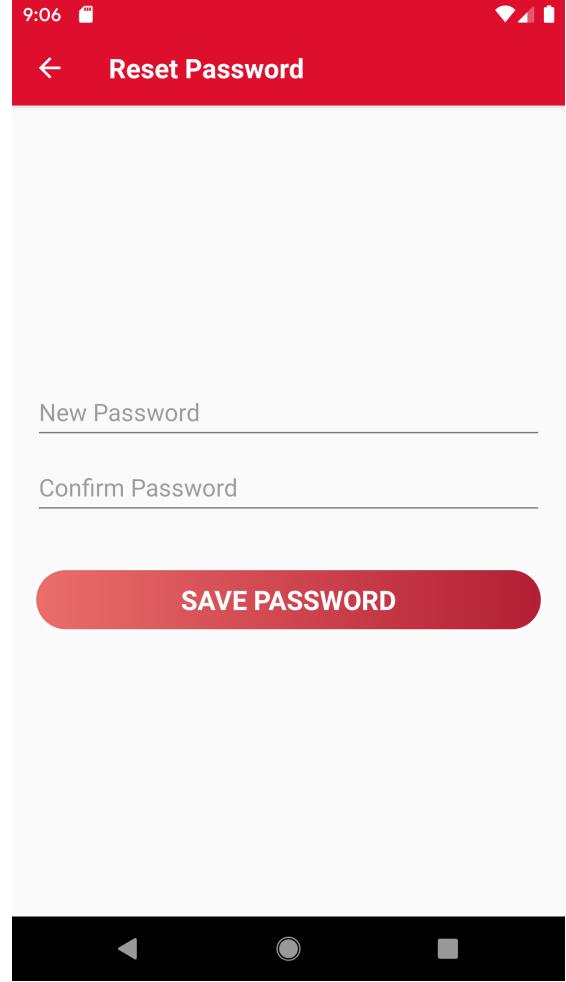
**LOGIN WRONG PASSWORD
ALERT BOX**



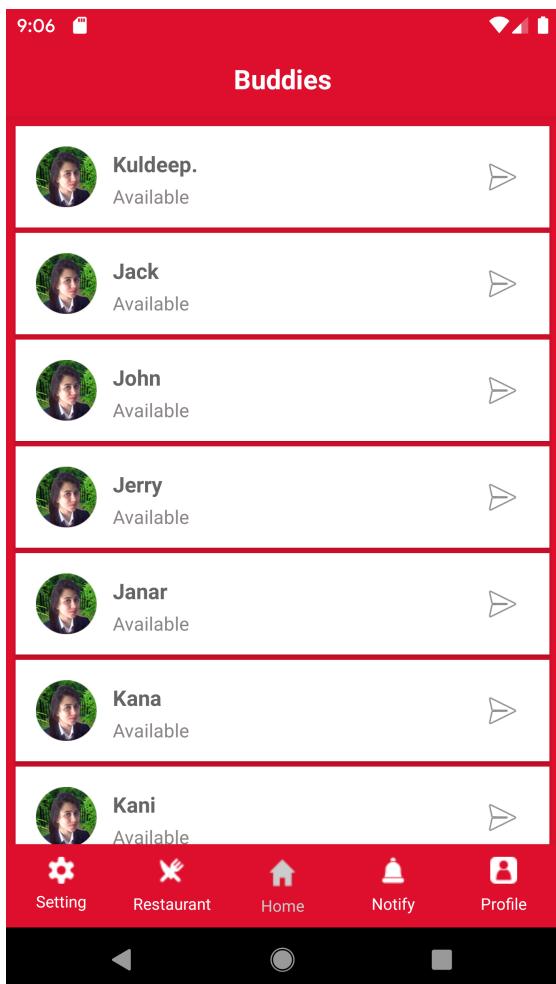
SIGNUP SCREEN



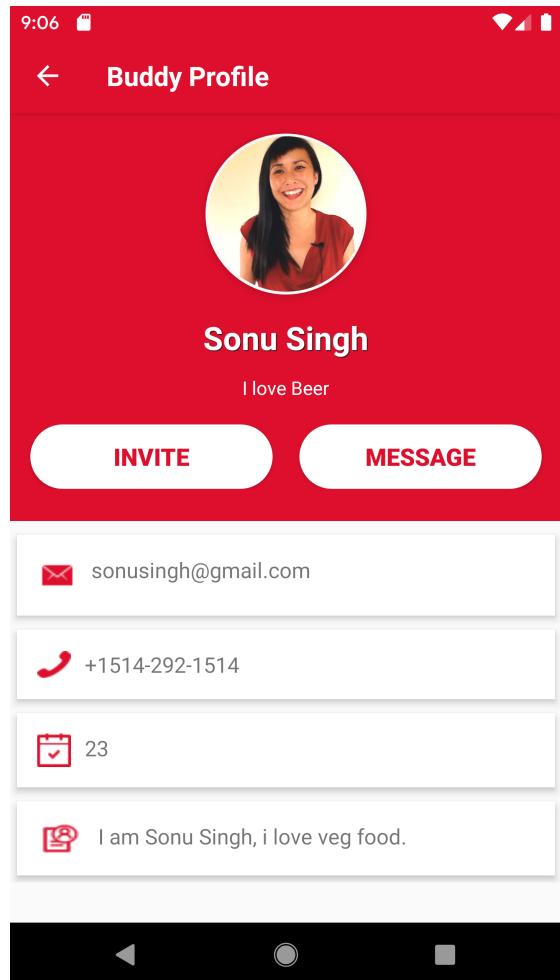
**PASSWORD RESETTING
VALIDATION SCREEN**



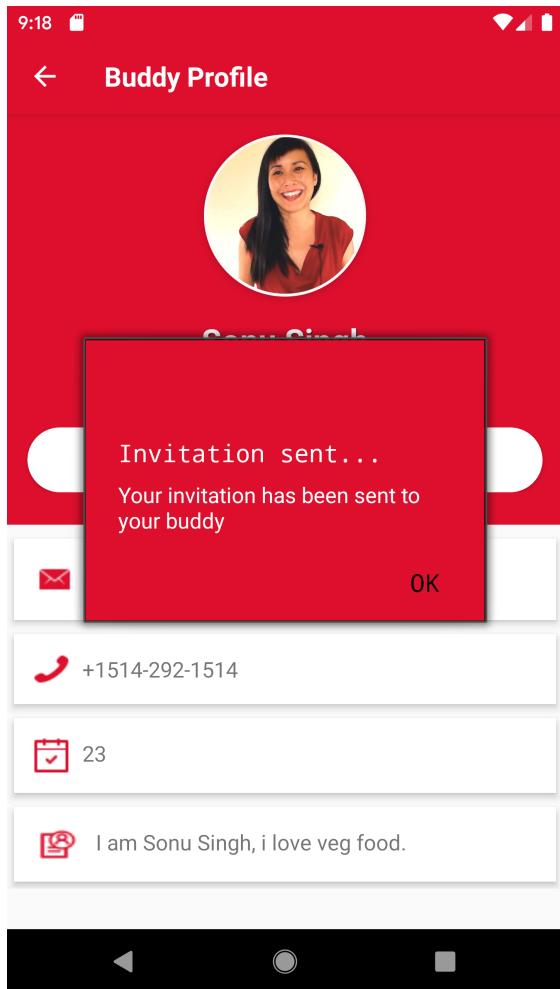
RESET PASSWORD SCREEN



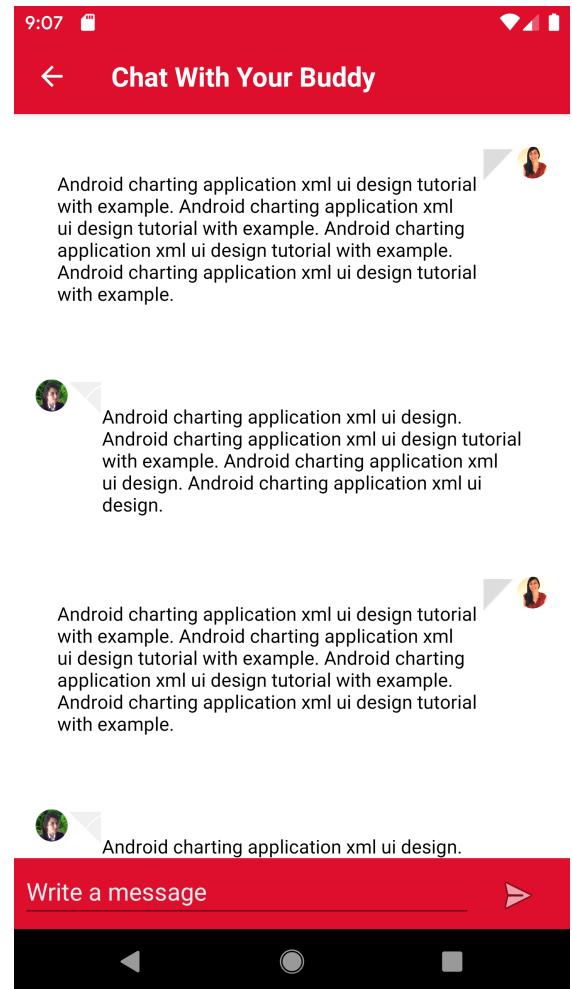
FIND BUDDIES SCREEN



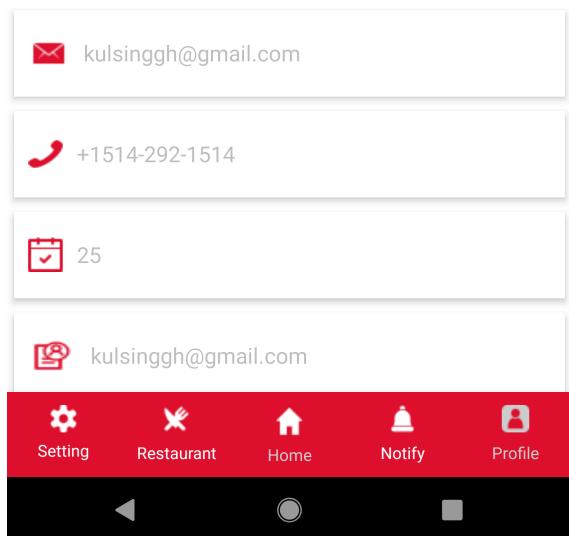
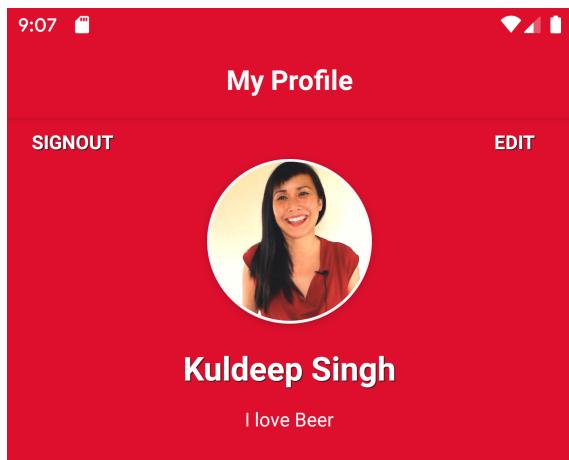
BUDDY PROFILE SCREEN



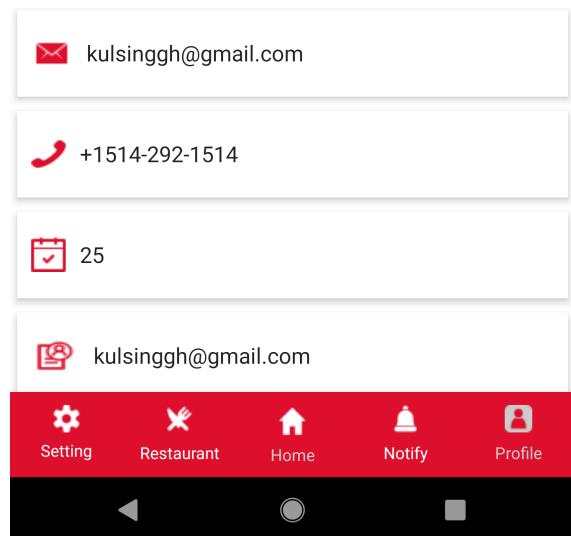
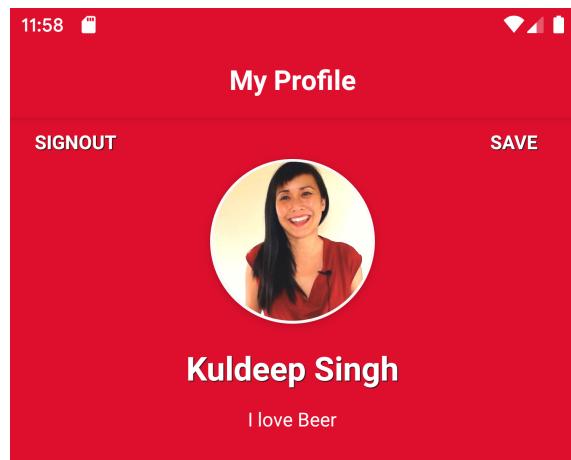
INVITE BUDDY SCREEN



CHAT WITH YOUR BUDDY SCREEN



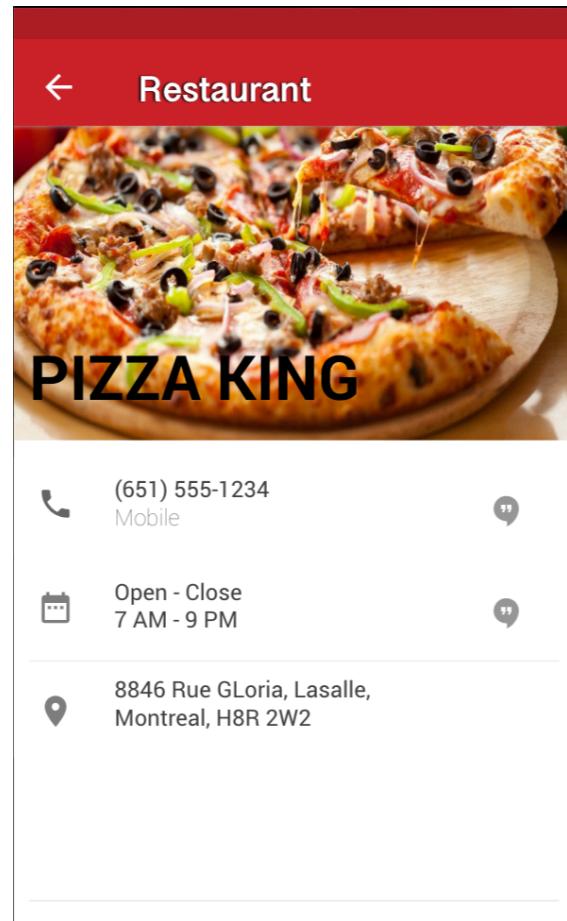
MY PROFILE SCREEN



EDIT MY PROFILE SCREEN



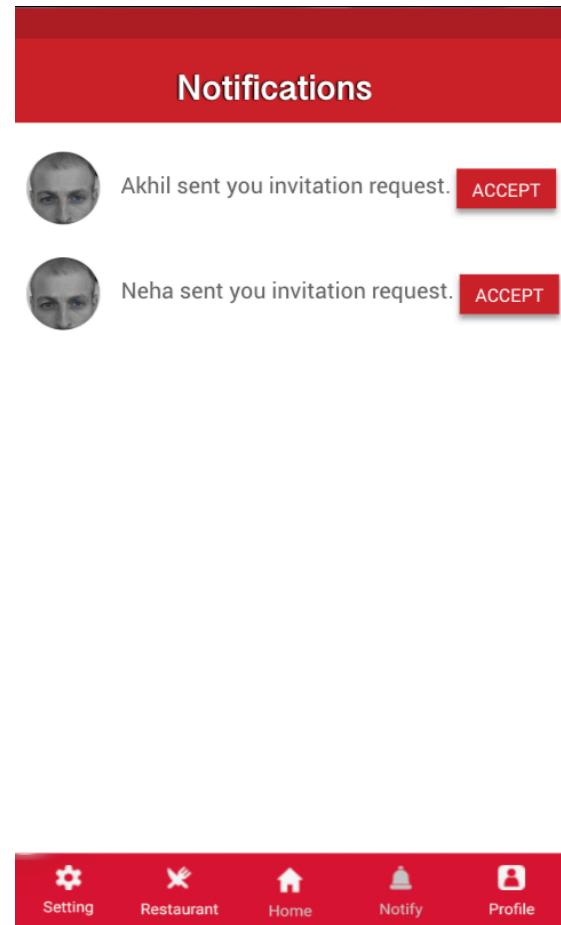
RESTAURANT LIST SCREEN



RESTAURANT SCREEN

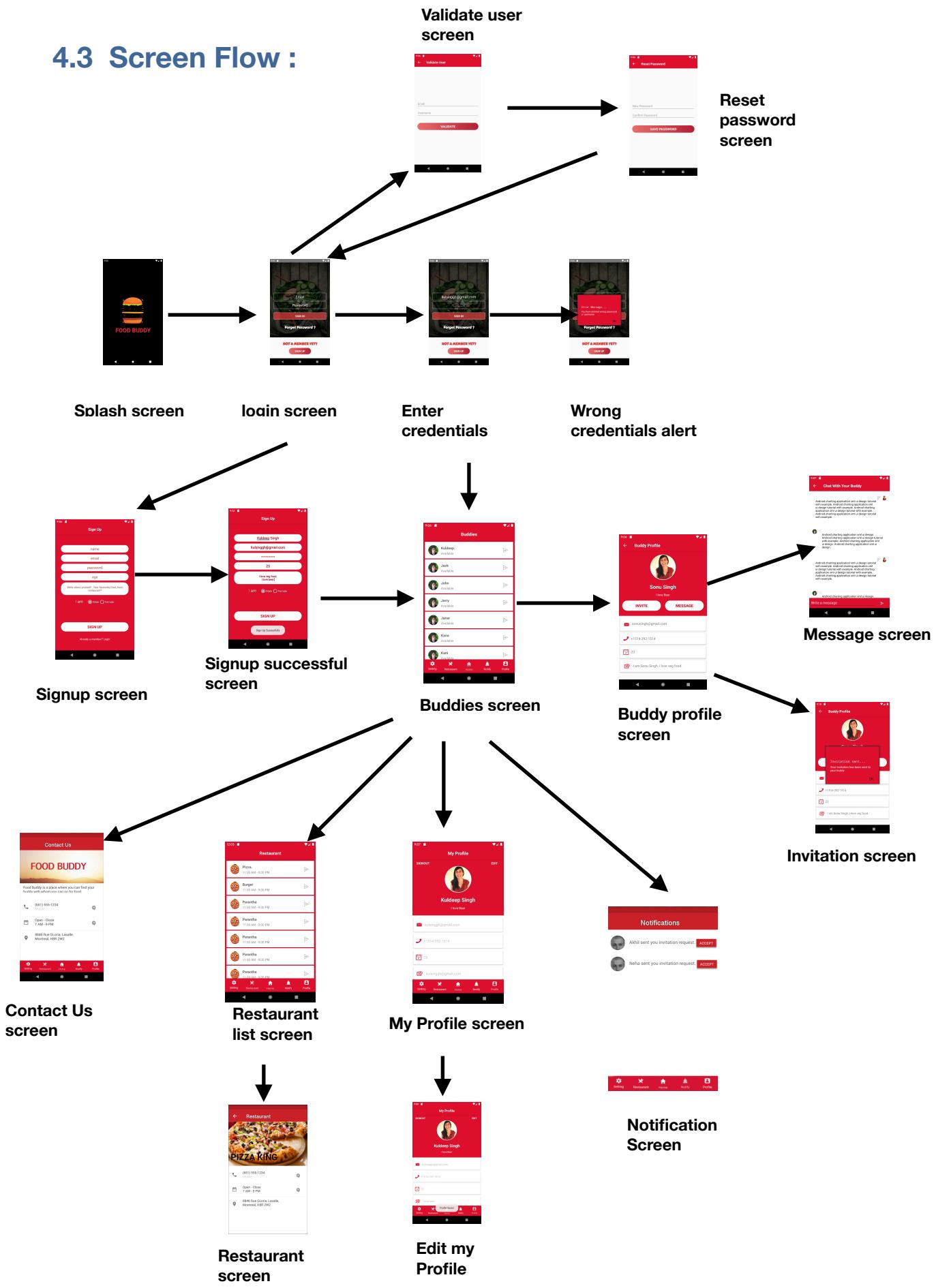


CONTACT US



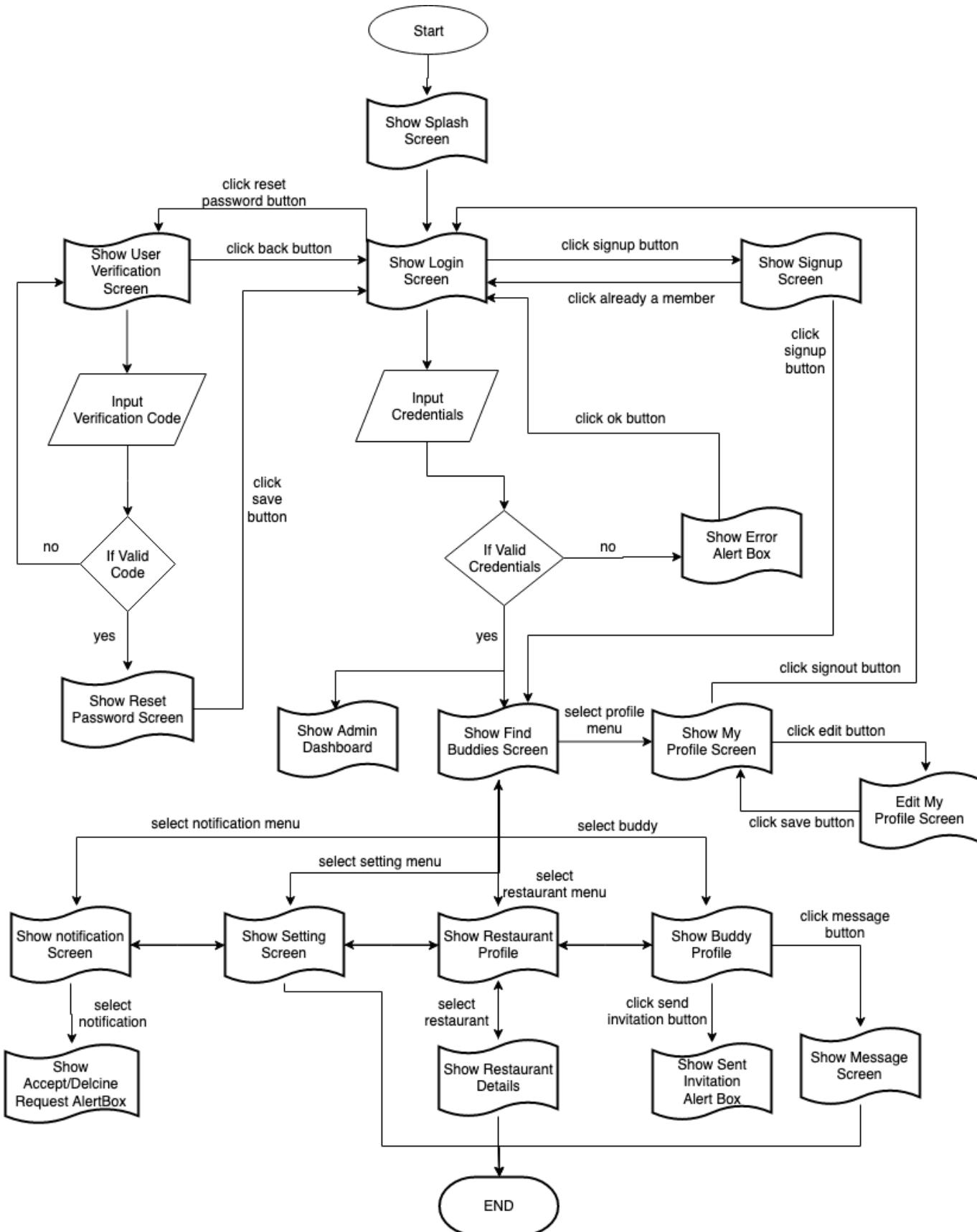
NOTIFICATION SCREEN

4.3 Screen Flow :

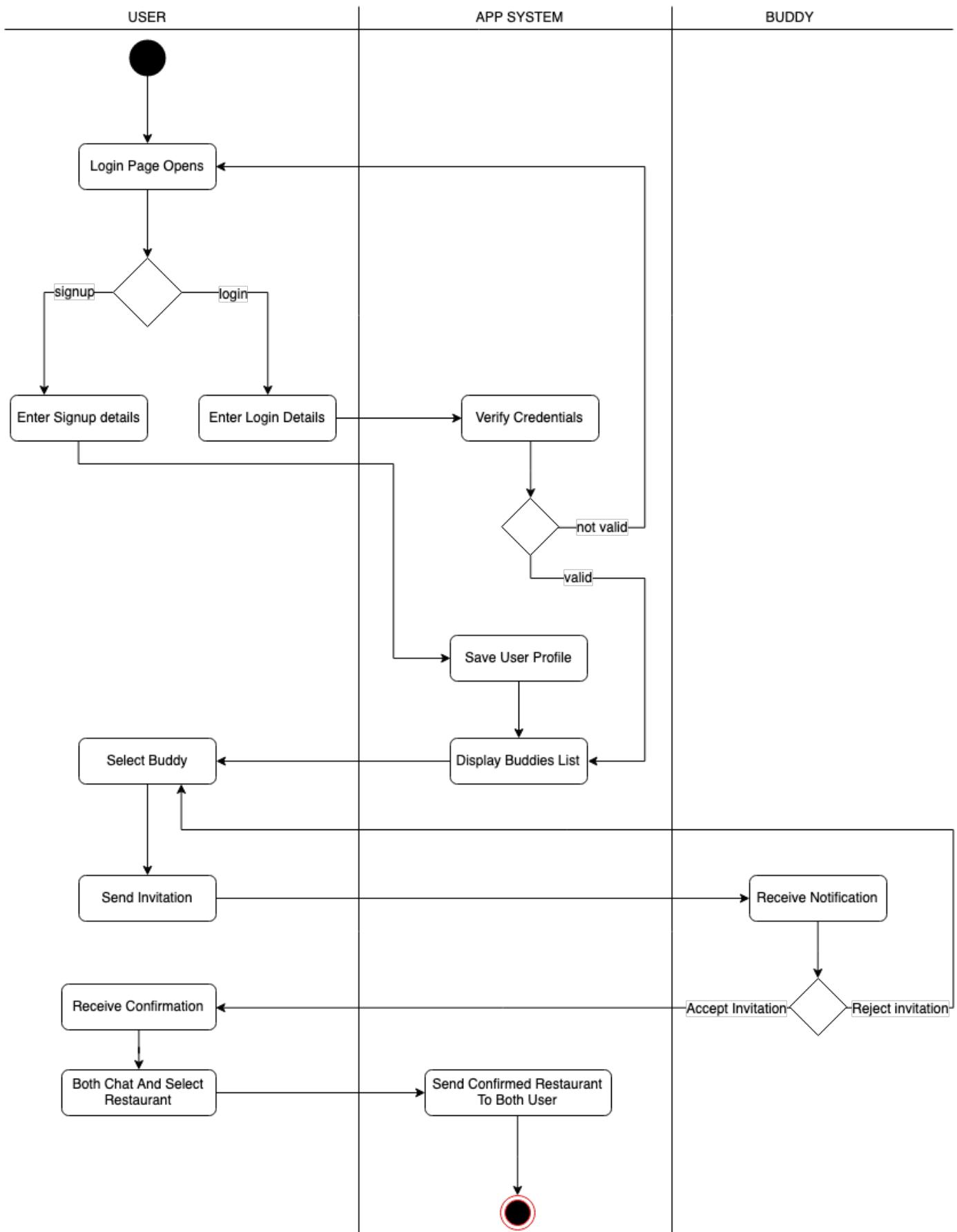


5. UML Diagrams And Charts:

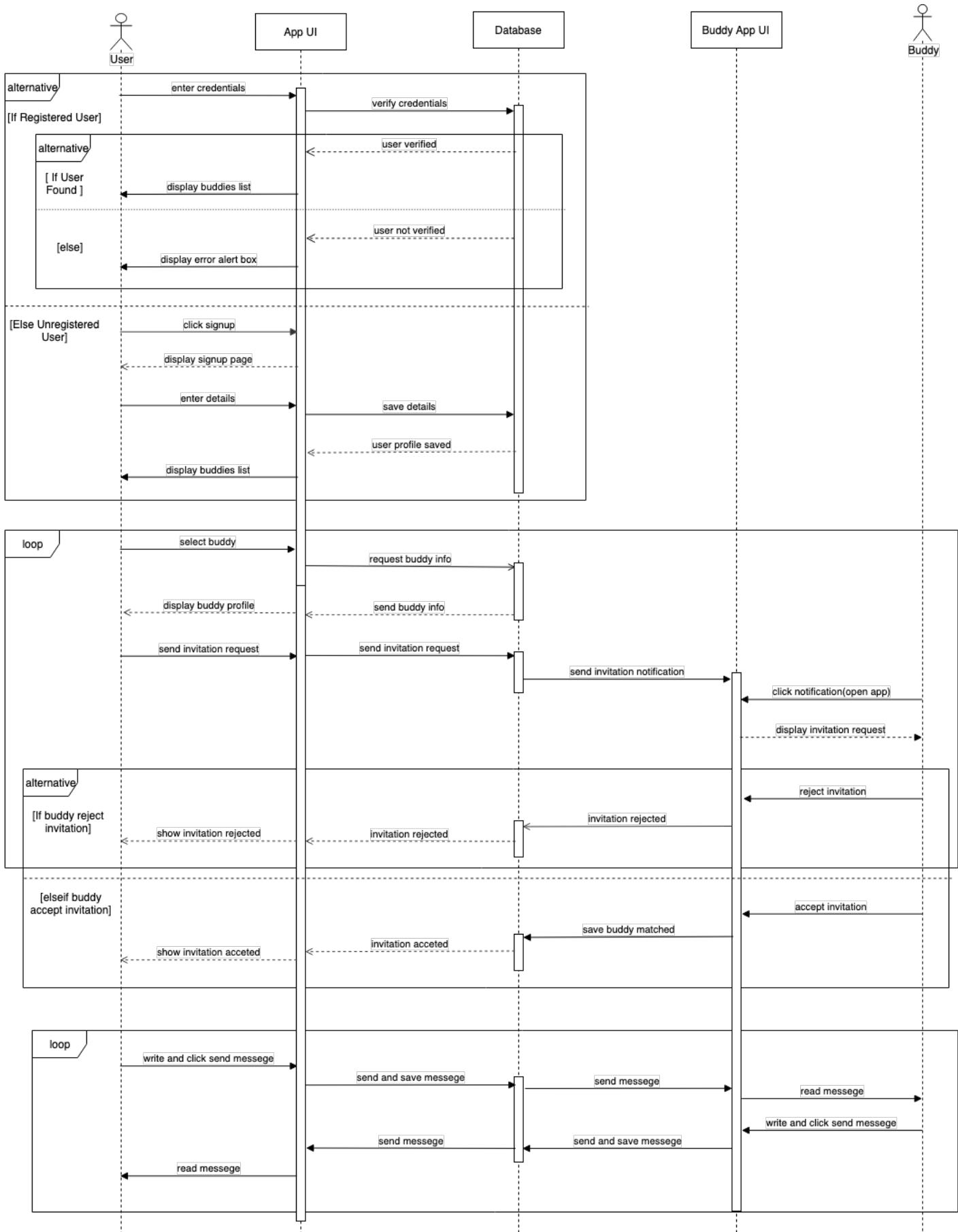
5.1. Flow Chart :



5.2. Activity Diagram :

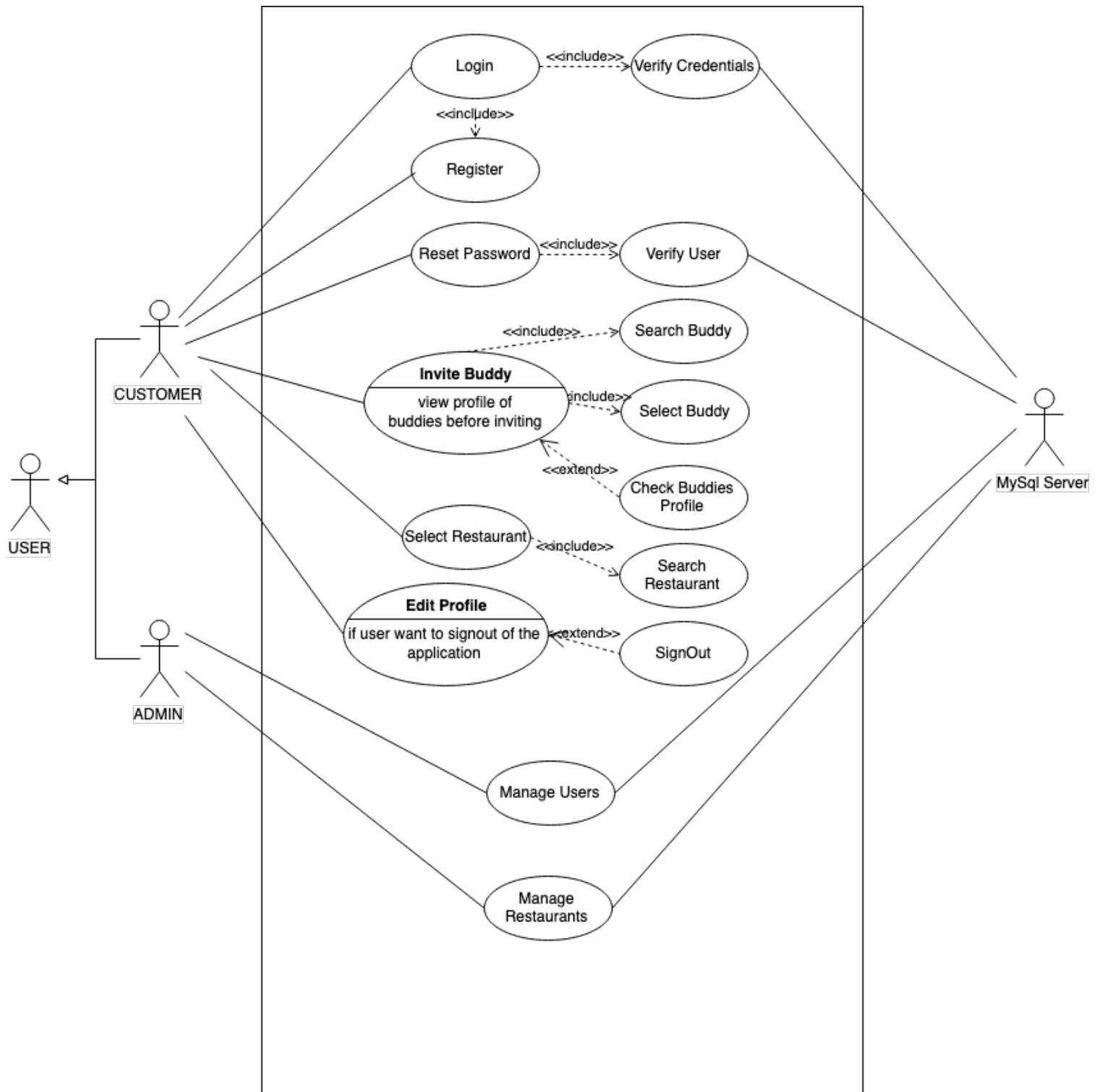


5.3. Sequence Diagram :



5.4. Use Case Diagram :

5.4.1 Use Case UC1 : Find Buddy for Meal



6. Fully Dressed Use Case For FOOD BUDDY :

6.1 Use Case UC1 : Find Buddy for Meal

Description : The user signin or register to the system. The system authenticate the user credential or store the new credential and display the list of currently available buddies to the user. The user can find and send request to other users/buddies who are available currently. The buddy can view the invitation notification that other user sent. The buddy accepts the request. The user and buddy gets matched and can chat over message interface provided by the system to finalise the restaurant. Once the restaurant is confirmed, the user and buddy can go to the restaurant to enjoy the meal.

Primary Actor : User, Admin

Secondary Actor : Server

Pre-condition :

- The user must be logged in.
- The user is identified and authenticated by the system.
- The availability of buddy must be sent true.

Post-condition:

- The users gets the notification about the selected restaurant.
- Both matched users and restaurant selected details saved in the system.
- Availability of user(both) is set to false and updated in the system.

Main Success Scenario:

1. User login or signup to the system.
2. The system authenticate the user and display the list of available buddies to the user.
3. User select any available buddy and send the invitation to the buddy.
4. The system send the invitation notification to the buddy.
5. The buddy(other user) accept the invitation request.
6. The system notify both users that they are matched.

7. The user chat with buddy to select the restaurant from the list of restaurant, displayed by the system.
8. The system save the selected restaurant and the user goes to the restaurant with buddy.

Extension :

1. a) If user enters wrong credentials, system shows error alert box.
b) User can reset password by selecting forget password.
2. a) If user signup with wrong respective fields, system shows error.
3. If server is offline, user can not perform any task.
4. If buddy do not respond to the invitation request within 24hrs the request will be automatically declined.
5. The user can not send invitation request to more than one buddy at any time of instance.

Issues :

1. User cannot send multiple request at same time.
2. User cannot accept multiple request at same time.
3. User profile will not be seen in buddy list, if his/her availability is disabled.

6.2 Use Case UC2 : Edit Profile

Description : The user is already registered to the application and wants to edit the details saved in the app system.

Primary Actor : User

Secondary Actor : Server

Pre-condition :

- The user must be logged in.
- The user is identified and authenticated by the system.

Post-condition:

- The users gets the notification about the profile updated.
- The edited or updated profile saved in the system.

Main Success Scenario:

1. User login or signup to the system.
2. The system authenticate the user and display the home screen to the user.
3. User click on the profile menu button.
4. The system displays user profile.
5. User click on the edit profile button.
6. System enables the editing of user profile fields.
7. User change the details he/she wants to edit and click save button.
8. The system saves the profile and displays profile updated successfully.

Extension :

1. a) If user enters wrong credentials, system shows error alert box.
b) User can reset password by selecting forget password.
2. If server is offline, user can not perform any task.
3. If user enter wrong field while editing profile, system shows error.

Issues :

1. User cannot edit the username(email address).
2. User can not update profile picture other than .jpeg,.jpg or .png file formats.

6.3 Use Case UC3 : Change Availability

Description : The user is already registered to the application and wants to change the availability.

Primary Actor : User

Secondary Actor : Server

Pre-condition :

- The user must be registered.
- The user must be logged in.
- The user is identified and authenticated by the system.

Post-condition:

- The users profile is removed or added from the available buddies list.
- The availability details saved in the system.

Main Success Scenario:

1. User login or signup to the system.
2. The system authenticate the user and display the home screen to the user.
3. User click on the setting menu button.
4. The system displays settings screen.
5. User click on the availability radio button(switch on or off).
6. System enables/disables the availability of the user.
7. User change the details he/she wants to edit and click save button.
8. The system saves the change in availability of the user.

Extension :

1. a) If user enters wrong credentials, system shows error alert box.
b) User can reset password by selecting forget password.
2. If server is offline, user can not perform any task.

Issues :

1. User cannot edit the availability if he/she gets offline.

6.4 Use Case UC4 : Find Restaurant

Description : The user wants to search for the restaurant where he/she and his/her buddy can go for meal.

Primary Actor : User

Secondary Actor : Server

Pre-condition :

- The user must be registered.
- The user must be logged in.
- The user is identified and authenticated by the system.

Post-condition:

- The finalised restaurant is saved in the system.

Main Success Scenario:

1. User login or signup to the system.
2. The system authenticate the user and display the home screen to the user.
3. User click on the restaurant menu button.
4. The system displays list of restaurants screen.
5. User select or click on any restaurant.
6. The system displays the selected restaurant details.
7. The user finalise the restaurant with his buddy.
8. The system saves the finalised restaurant in the database.

Extension :

1. a) If user enters wrong credentials, system shows error alert box.
b) User can reset password by selecting forget password.
2. If server is offline, user can not perform any task.

Issues :

1. User cannot finalise more than one restaurant.