

Capstone Project

Tenant/Landlord Management App

Phase 2

By: Joe Yeung, Vlad Yatsuta, and Afreen Ahmad

Selection of framework/architecture

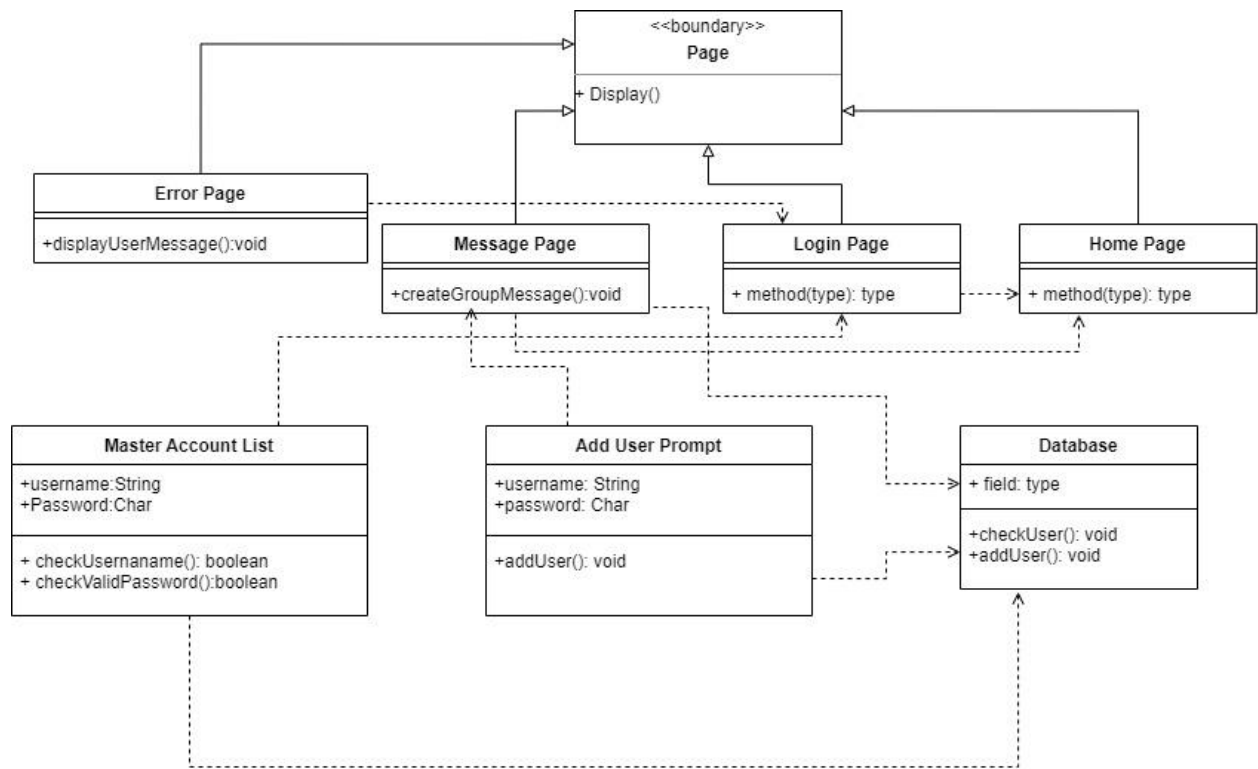
Database(Possible):

- Firebase
- LiteSQL
- MySQL
- PostgreSQL

Framework (Possible)

- React Native
- Android SDK
- Android Studios
- Node js
- Vue js
- Flutter

Static Class Diagram



Robustness Diagrams

Login Use Case

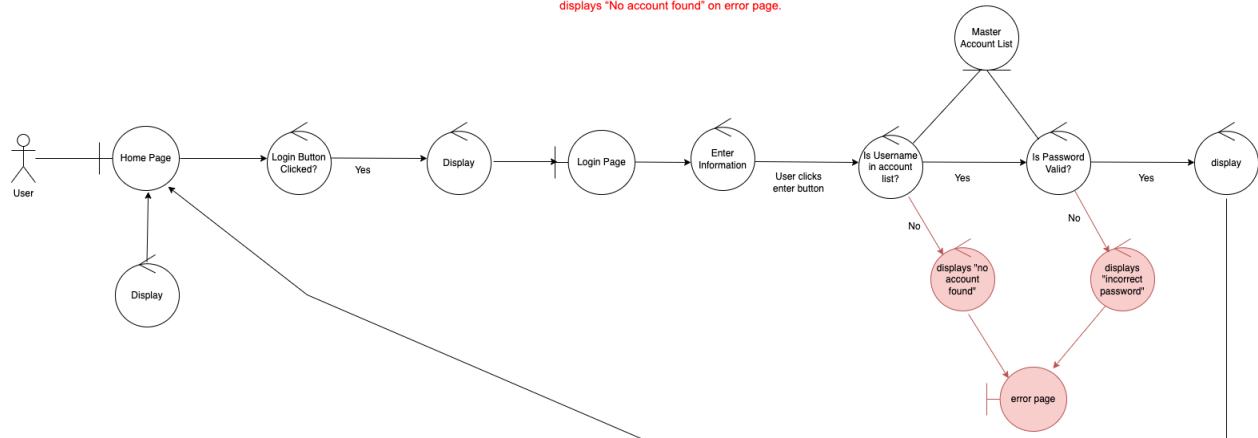
Basic Course:

The user clicks login button on the home page. The System Displays the login page. The user enters their password and username and clicks the login button. The system looks up the user in the master account list and checks the password. The system logs in the user. The system display the home page.

Alternative Course:

User enters wrong password: System displays "Incorrect Password" message on error page.

System cannot find account in Master Account List: System displays "No account found" on error page.



Create group messaging Use Case

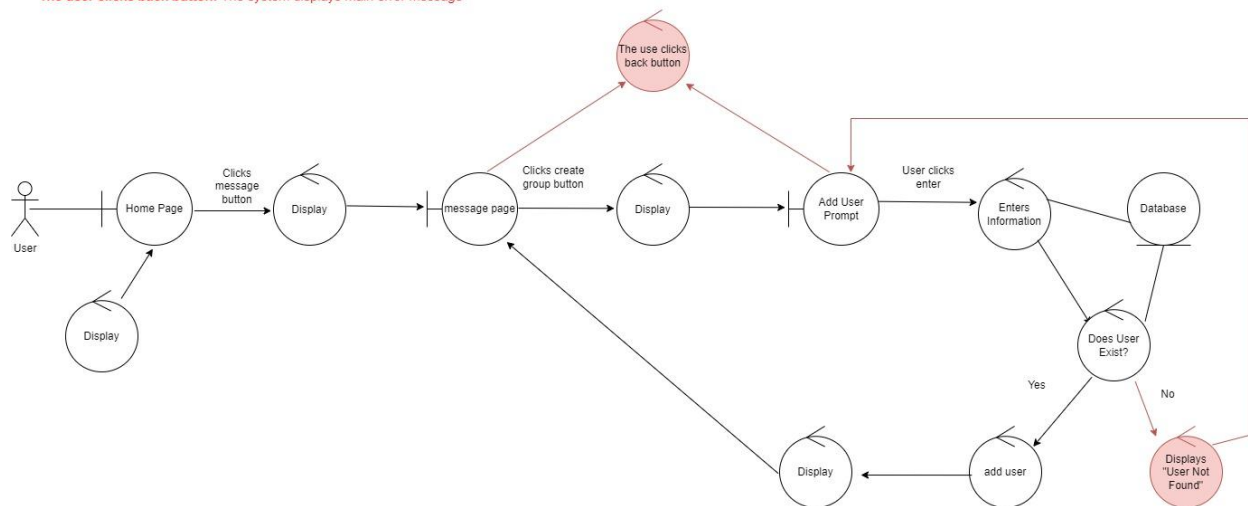
Basic Course:

The system displays the home page. The user clicks the messaging button. System displays the messaging page. The user clicks the create group message button. The system displays add user prompt. The user enters the users. The system retrieves the selected users from the database. The system adds the selected users to the group message. The system display the group messaging screen

Alternative Course:

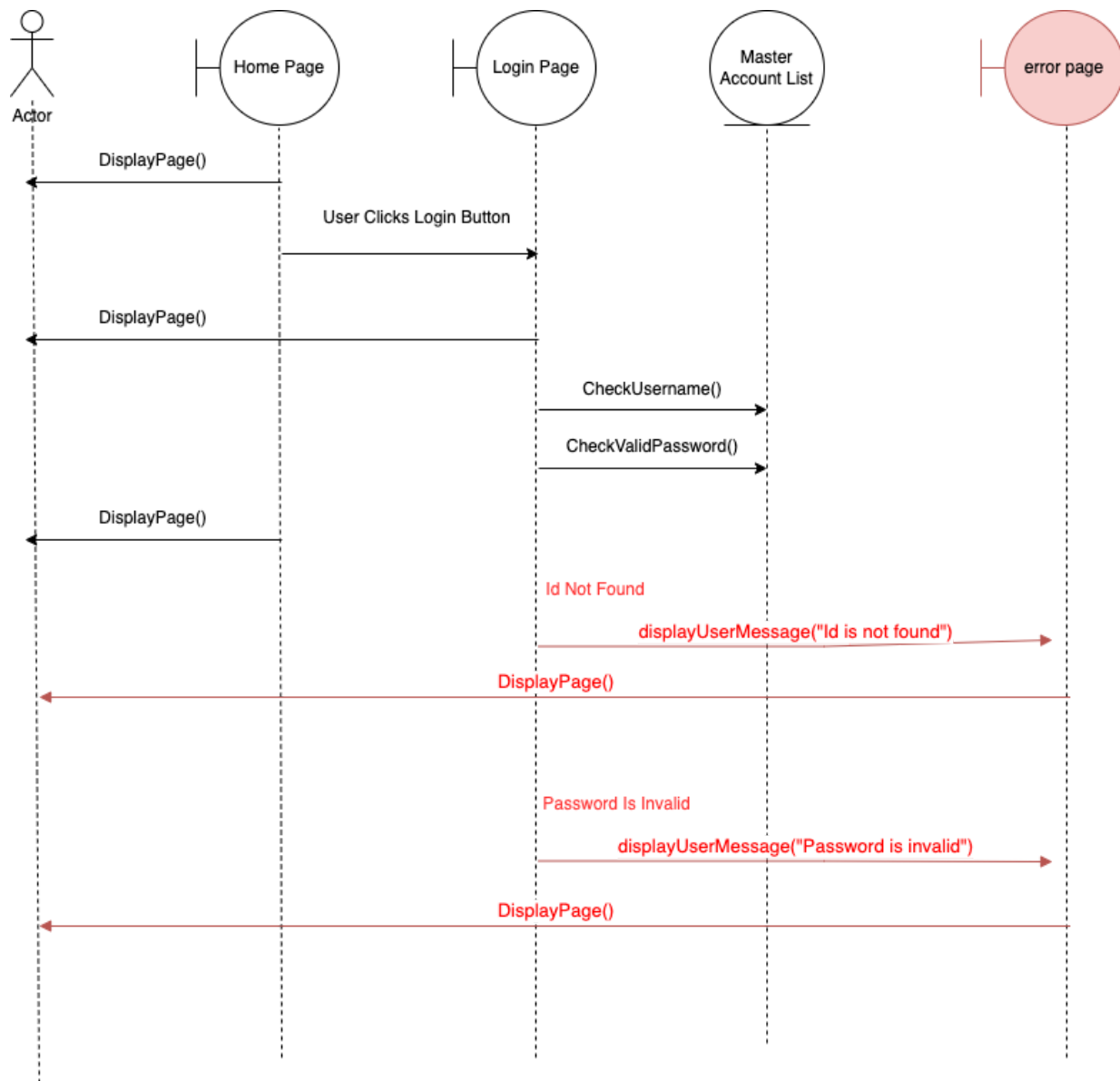
User adds a user who does not exist to the group message: The system displays "User not found" error message. Redirects to add user prompt

The user clicks back button: The system displays main error message

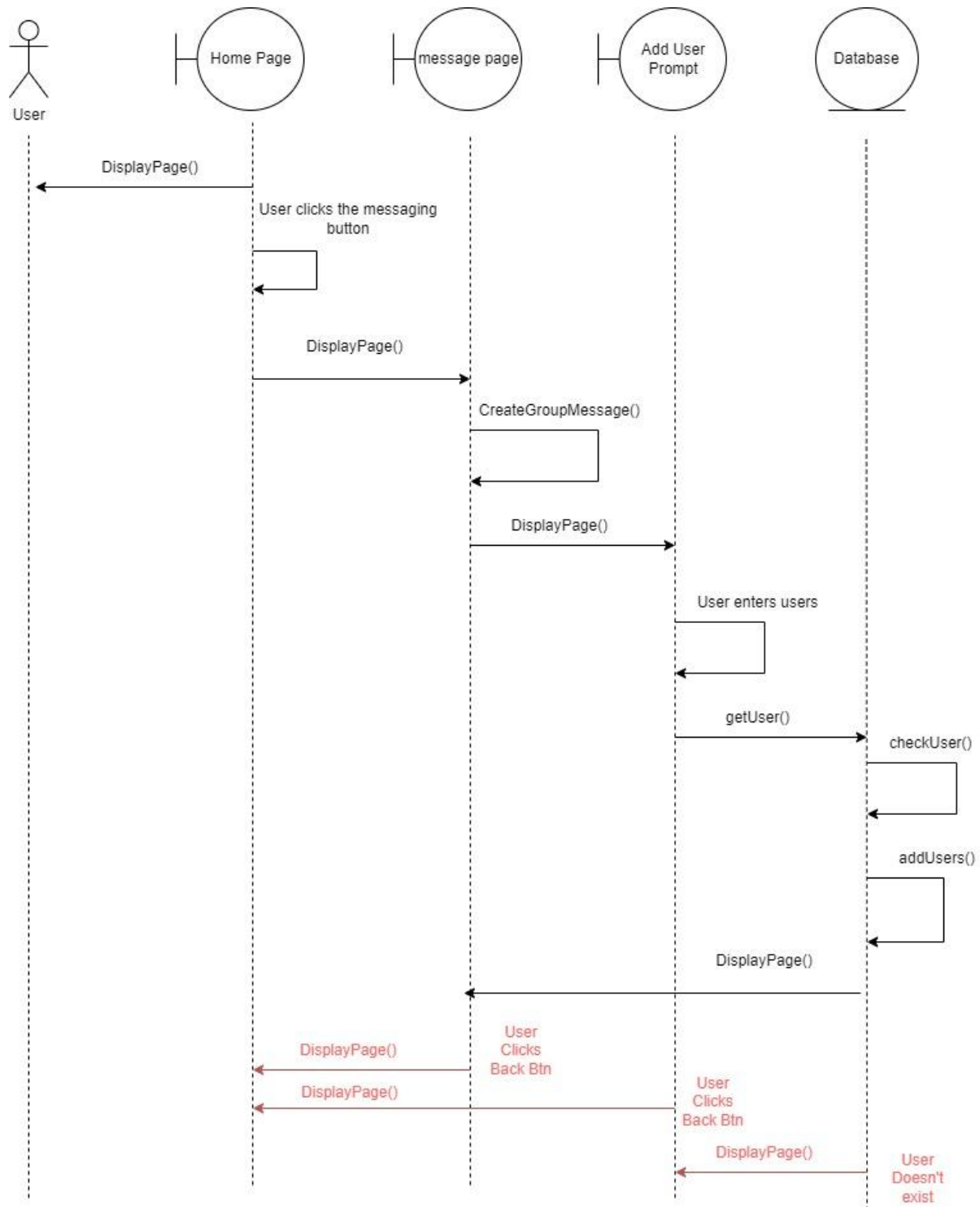


Sequence Diagram

Login Use Case



Create Group Use Case



SW development plan, Weekly software process schedule

Month		Development Plan	Testing and Demonstration Plan
Dec	4	<ul style="list-style-type: none"> • Prototype • Presentation 	Show off an idea of what the project is about
	11	<ul style="list-style-type: none"> • Finish Presentation 	Create a presentation to show off during finals week
	18	<ul style="list-style-type: none"> • Research • Testing 	During break, we all independently do research on possible database/framework we can use for our project
Jan	8	<ul style="list-style-type: none"> • Database <ul style="list-style-type: none"> ◦ Account DB ◦ Messages DB ◦ Images DB ◦ Document DB ◦ Apartment DB • Account <ul style="list-style-type: none"> ◦ Landlord/Tenant/Worker/Guest ◦ User Login Detail ◦ Personal Info 	User can create account Landlord can access database
	22	<ul style="list-style-type: none"> • Apartment <ul style="list-style-type: none"> ◦ Add/Modify/Delete/Store • Document <ul style="list-style-type: none"> ◦ Add/Modify/Delete/Store 	User can add/modify/store documents Landlord can add/modify/store apartments
Feb	5	<ul style="list-style-type: none"> • Images <ul style="list-style-type: none"> ◦ Add/Store/Delete ◦ Share • Camera <ul style="list-style-type: none"> ◦ Take Pictures ◦ Store/Delete 	User can add/modify/store/share images Users can take/store/delete pictures
	19	<ul style="list-style-type: none"> • Messaging <ul style="list-style-type: none"> ◦ Chat between two user ◦ Group Chat ◦ Direct messaging 	Users can create group chats/message other users Users can message landlord

[illegible]