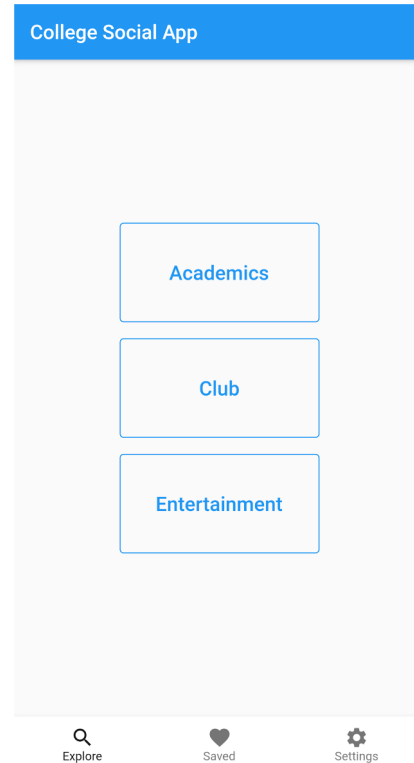


College Social App

Austin Schladant
Kyle Riley
BoFei Wang

RECAP

- Chatroom style messaging application for University students
- Three core topics to easily find chat rooms tailored to a student's interests
- Programmed using Dart and Firebase Cloud Storage

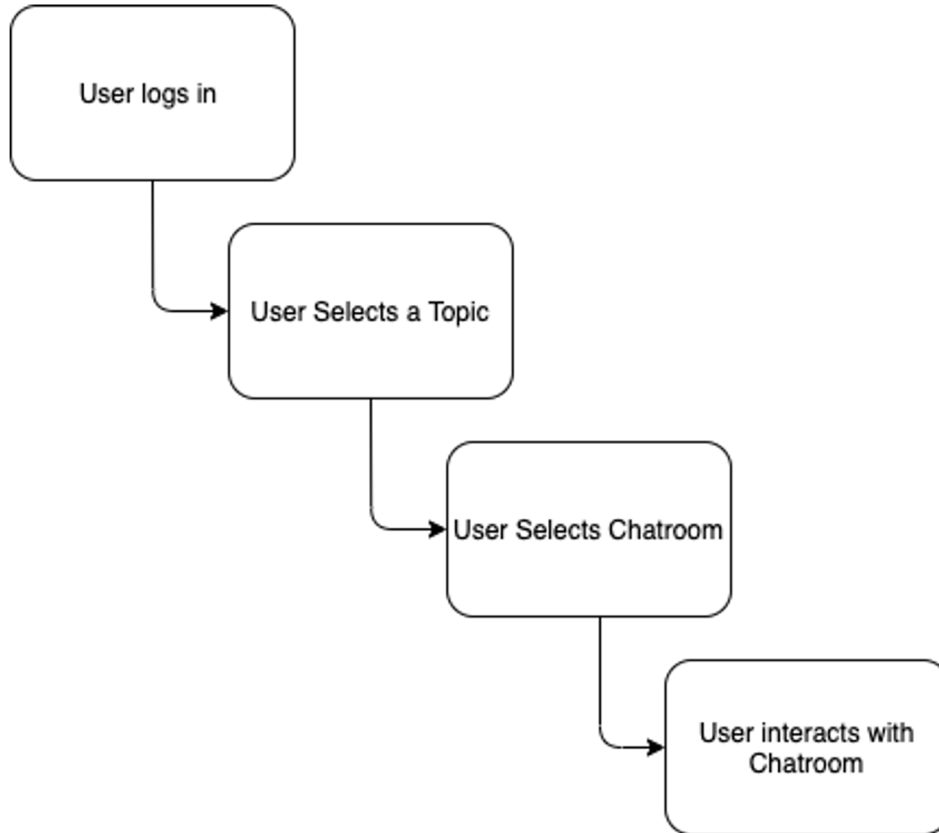


ACTORS

1. Account Holders
 - a. Has access to all application functions
2. Non-Account Holders
 - a. Has access to only account creation and login
3. Firebase Database
 - a. Stores user information, chatrooms, and messages



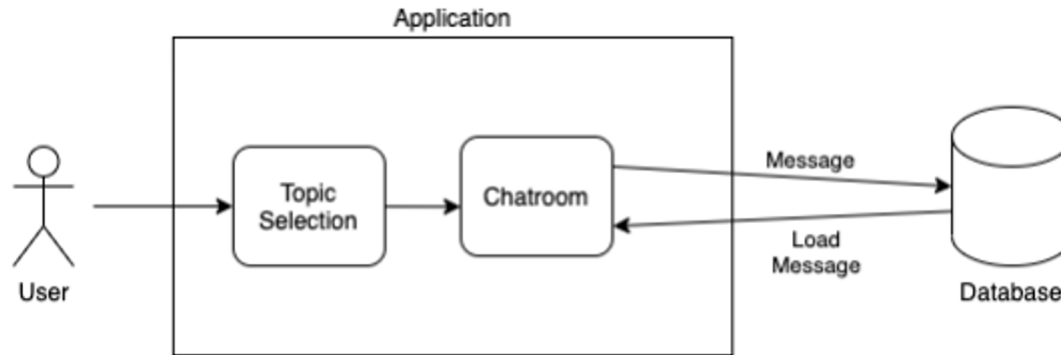
System Overview



SYSTEM OVERVIEW

Main System Components:

- Topic Selection and Chatroom



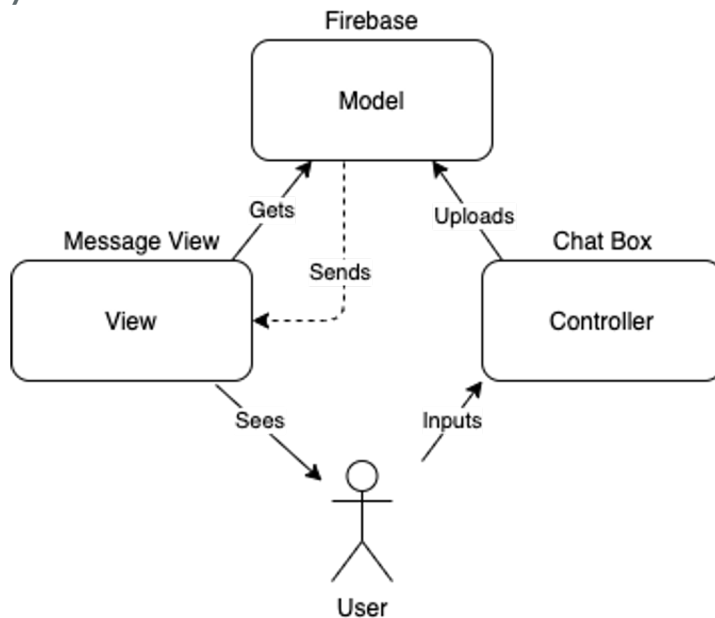
ARCHITECTURE STYLE

Event-Driven Architecture

- Application acts accordingly to events caused by the user

Model-View-Controller (MVC) Architecture

- Model: Firebase Database
- View: Message Texts



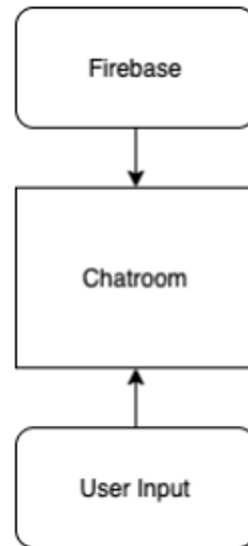
DESIGN PATTERNS

Mediator Pattern

- Encapsulates communication between Database object and User object with Mediator object

Factory Method

- Implements Chatroom Selection Object superclass
 - Depending on User input, different subclasses are instantiated



FRAMEWORKS

Flutter UI toolkit, written with Dart programming language

- Powerful UI toolkit by Google for creating applications

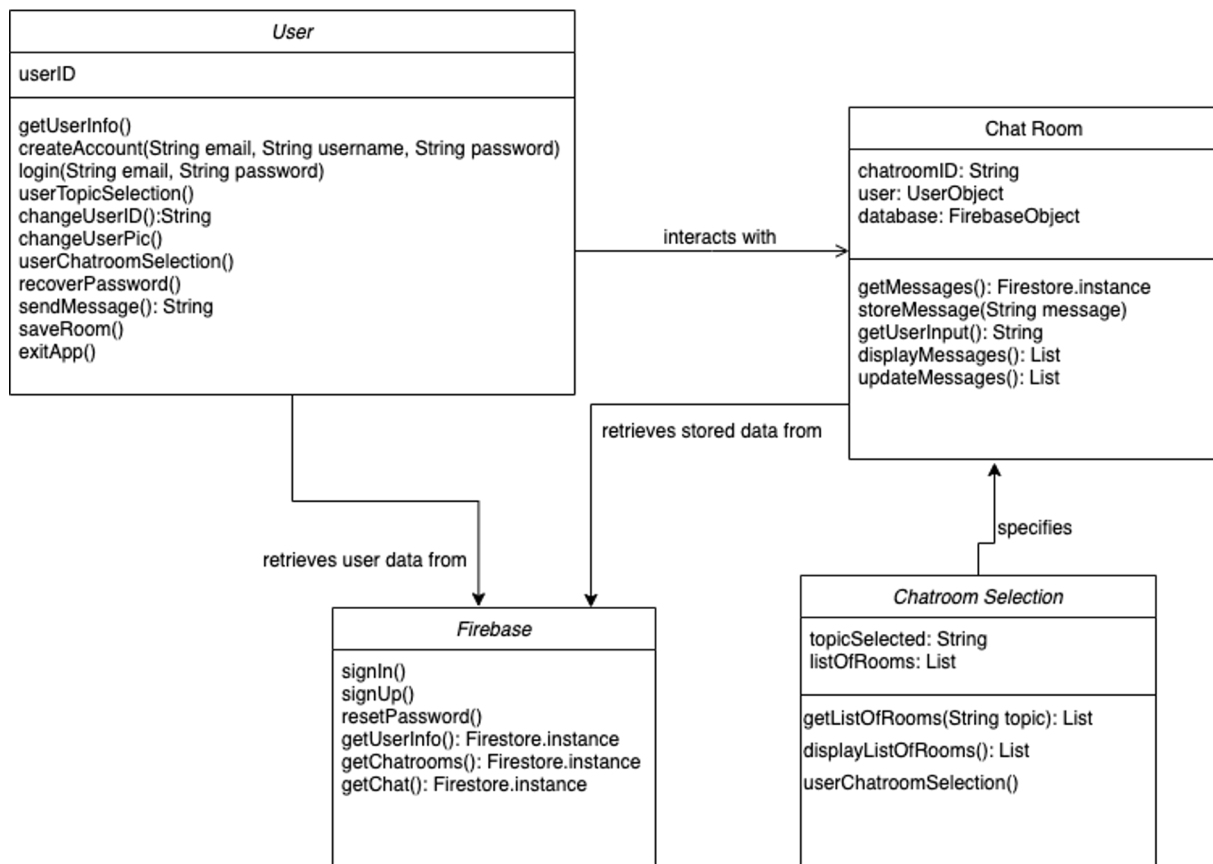


Firebase API

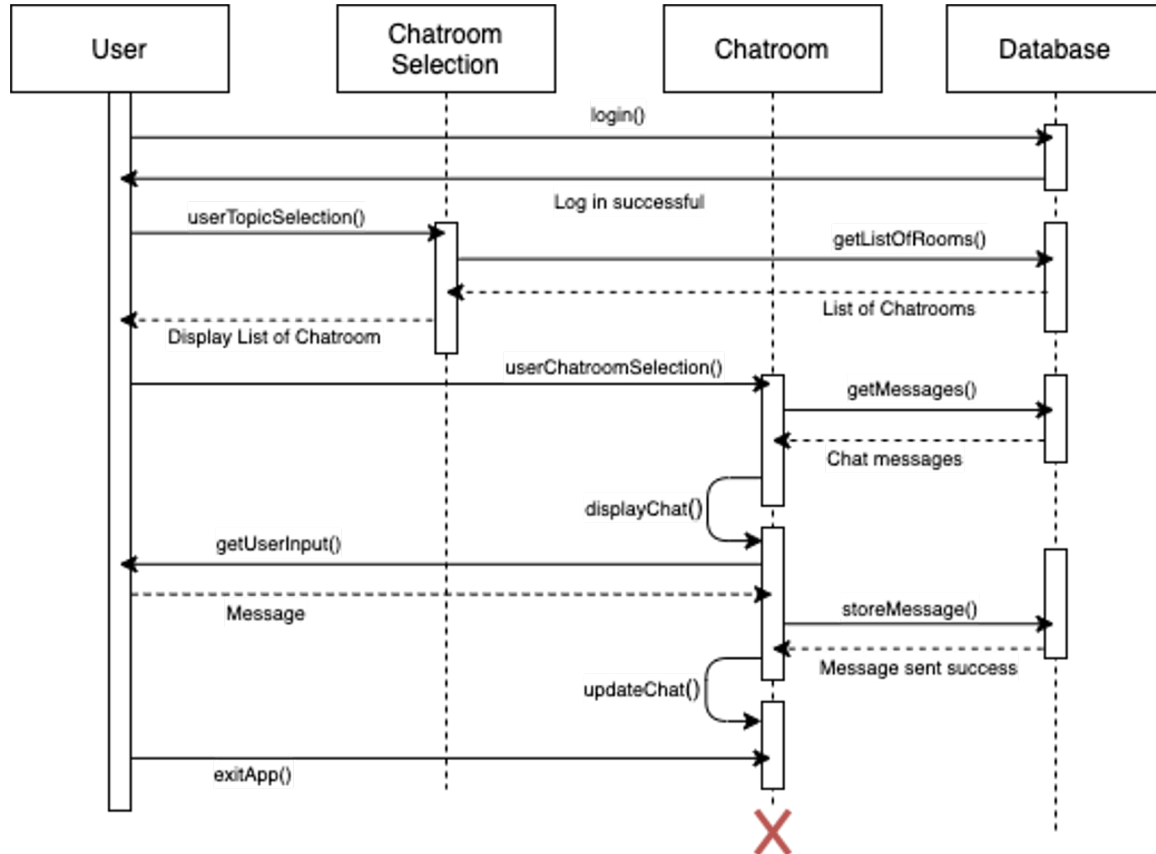
- Allows easy storage of data in realtime



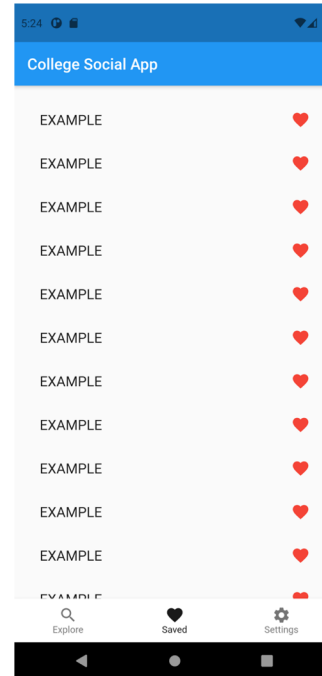
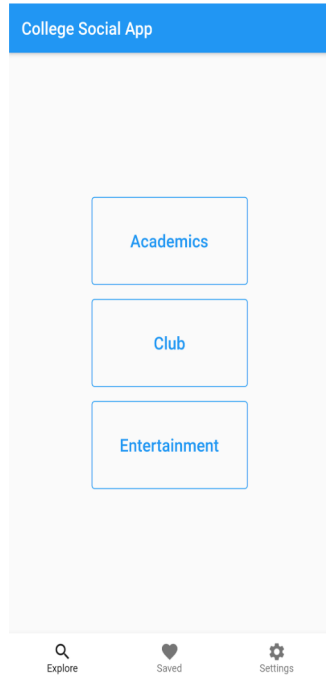
CLASS DIAGRAM



SEQUENCE DIAGRAM



PROJECT MOCK-UP



Questions

<https://github.com/Aschladant/team14-social-app>