

course: CS446

team: BB8

project: WAThub

## prototype demonstration

### demo summary

This is a summary of functionalities that we are going to demo on presentation day. As stated in the recent status report, we have almost finished all the components of the project that we estimated to be done by demo day and here below, I am going to list all those features that we expect to show in detail:

- **login/signup**

This feature is implemented and we can show a real demo of it. This includes the login, signup and reset password features.

- **profile**

We will also have a real demo of profile view of the users. This includes viewing, editing and saving the profile.

- **general posts**

The real demo of creation and viewing of general posts will also be available to show. Other parts of the posts such as messaging may appear as a non-functional simulated component for now to show where it will reside inside the post and implementation will happen after the demo.

- **book exchange posts**

This specific post type will be demo'd as well embedded inside the general post to show one of the real user scenarios in action.

- **group study posts**

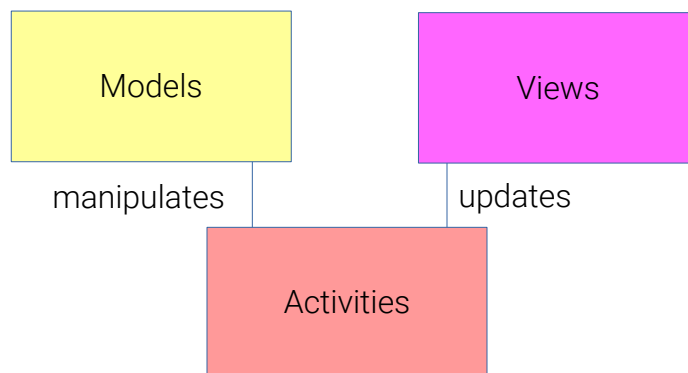
This specific post type will also be available to demo with its special features as another example of a user scenario.

If time permits, **carpool posts** and/or other part of the app may also be available by the demo day.

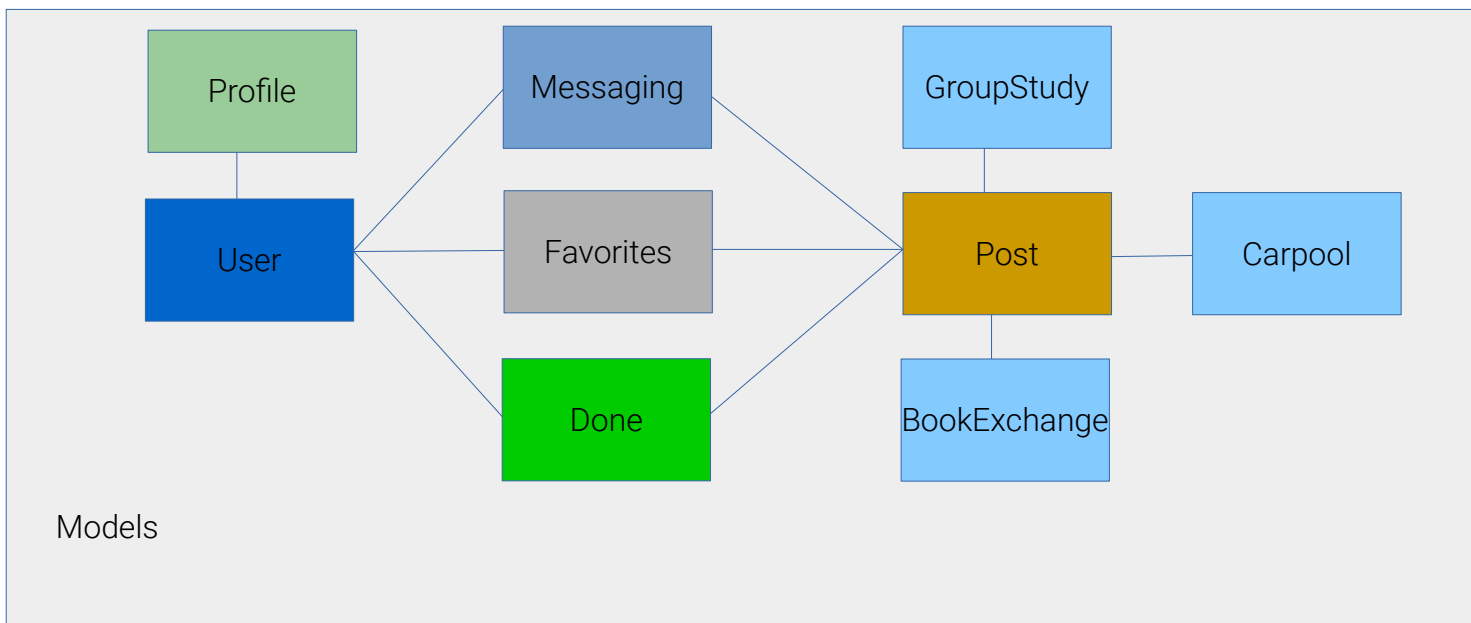
## component diagram

The architecture of the project is essentially the MVC (model-view-controller) pattern at a high level. The topology of our project is composed of several components that are model classes, activities and views. Model classes are the core data classes of our project and are associated directly with appropriate Parse classes in our database. These classes provide interface for getting and setting data easily from and to our database in an object-oriented fashion. These classes extend ParseObject and implements Parsable interface which contains generic column fields and methods. On the other hand, controllers are the components between models and views and manipulates models to update the views. In our project, controllers are the activities of Android project. Finally, views are what the user sees and operates on to interact with the database indirectly via inputs and outputs. XML design files constitute the view component of our project.

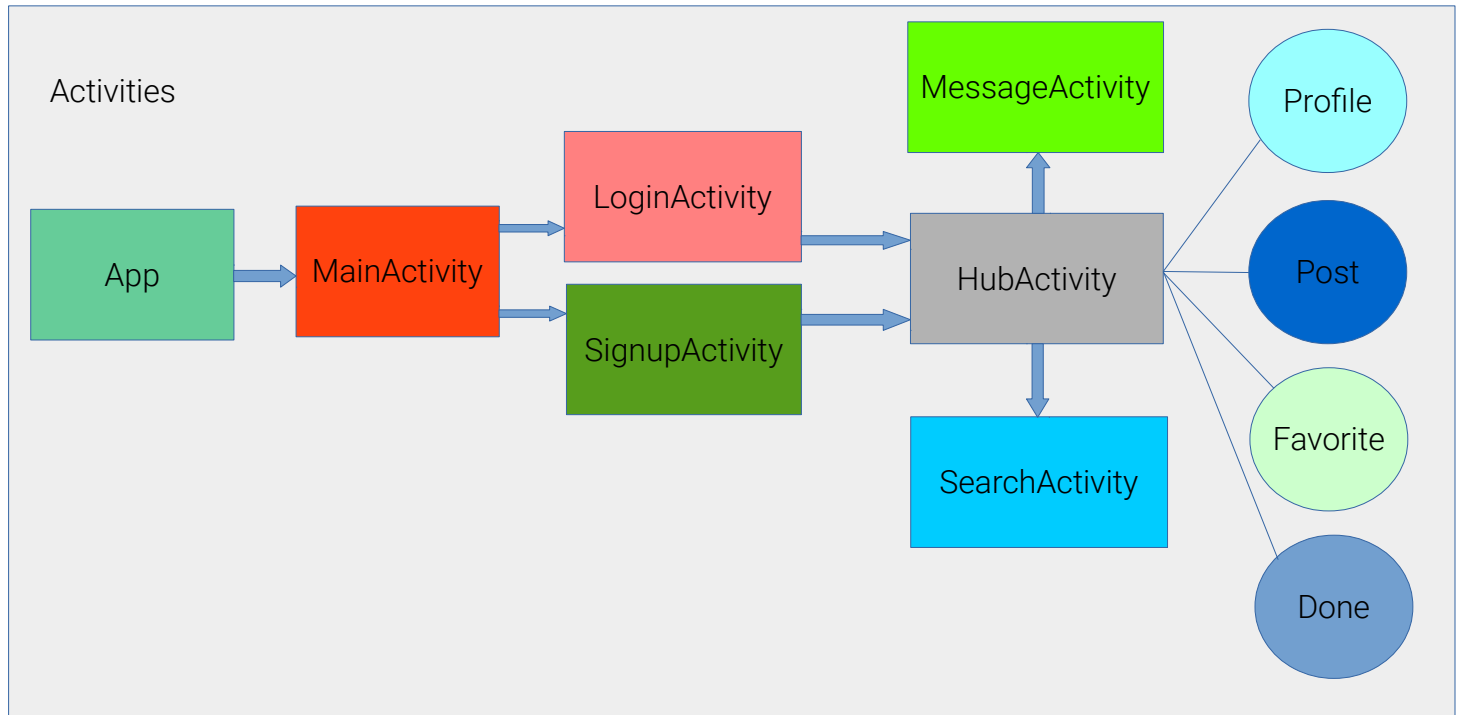
Here is the graphical view of the architecture:



Here are the core models:



Here are the activities:



Finally, views are the XML files that are composed of various layouts and view groups (buttons, fields, boxes etc.). There are separate view files for each activity and fragment as well.