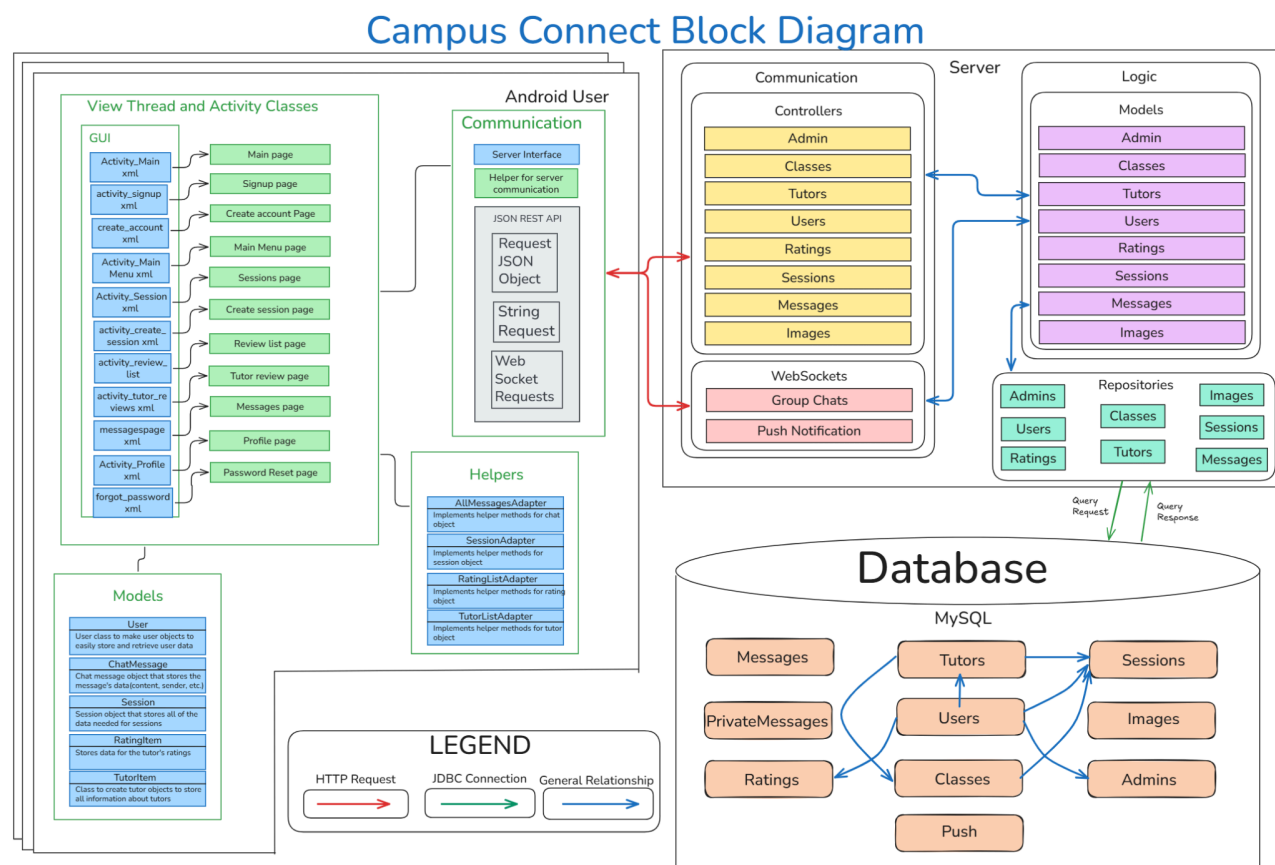# Design Document for Campus Connect

Group 3_Hosen_1

Carson Torrey:  25% contribution

Preet Patel: 25% contribution

William Rossow: 25% contribution

Camden Klicker: 25% contribution

PUT THE BLOCK DIAGRAM PICTURE ON THIS PAGE! (Create the picture using pencil or drawIO)

# Frontend

Login Page(User, Tutor, Admin)
- Takes in a username and password
  - Once logged in, creates user object by getting all data from the database and creates a user object with said data
  - Displays different information based on role(Users have access to ratings, admins are allowed to see management pages, etc)

Roles:
- **Users**:
  - Regular users represent the student population using the app to find academic support.
  - Once logged in, a User object is created containing the student's profile information, session history, and rating history.
- **Tutors**
  - Tutors are specialized users who provide academic support.
  - Tutor accounts include additional information such as classes taught, individual rating, and session information.
- **Admins:**
  - Have the ability to edit and delete information for administrative purposes.

# Backend

Communication
- We used the REST API to communicate with frontend. Using Standard HTTP Request methods:
  - GET
  - POST
  - PUT
  - DELETE

Controllers
Each Controller gets mapped to database tables. These include:
- **Users**:
  - Tutors - One to One
  - Admins - One to One
  - Ratings - One to Many
- **Tutors**
  - Ratings - One to Many
  - Sessions - One to Many
  - Classes - Many to Many
- **Classes**
  - Sessions - One to Many

Swagger Documentation: http://coms-3090-037.class.las.iastate.edu:8080/swagger-ui/index.htm

PUT THE TABLE RELATIONSHIPS DIAGRAM on this fourth page! (Create the picture using MySQLWorkbench)