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## Design Document for <<PENGU>>

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Group <MS3\_5>

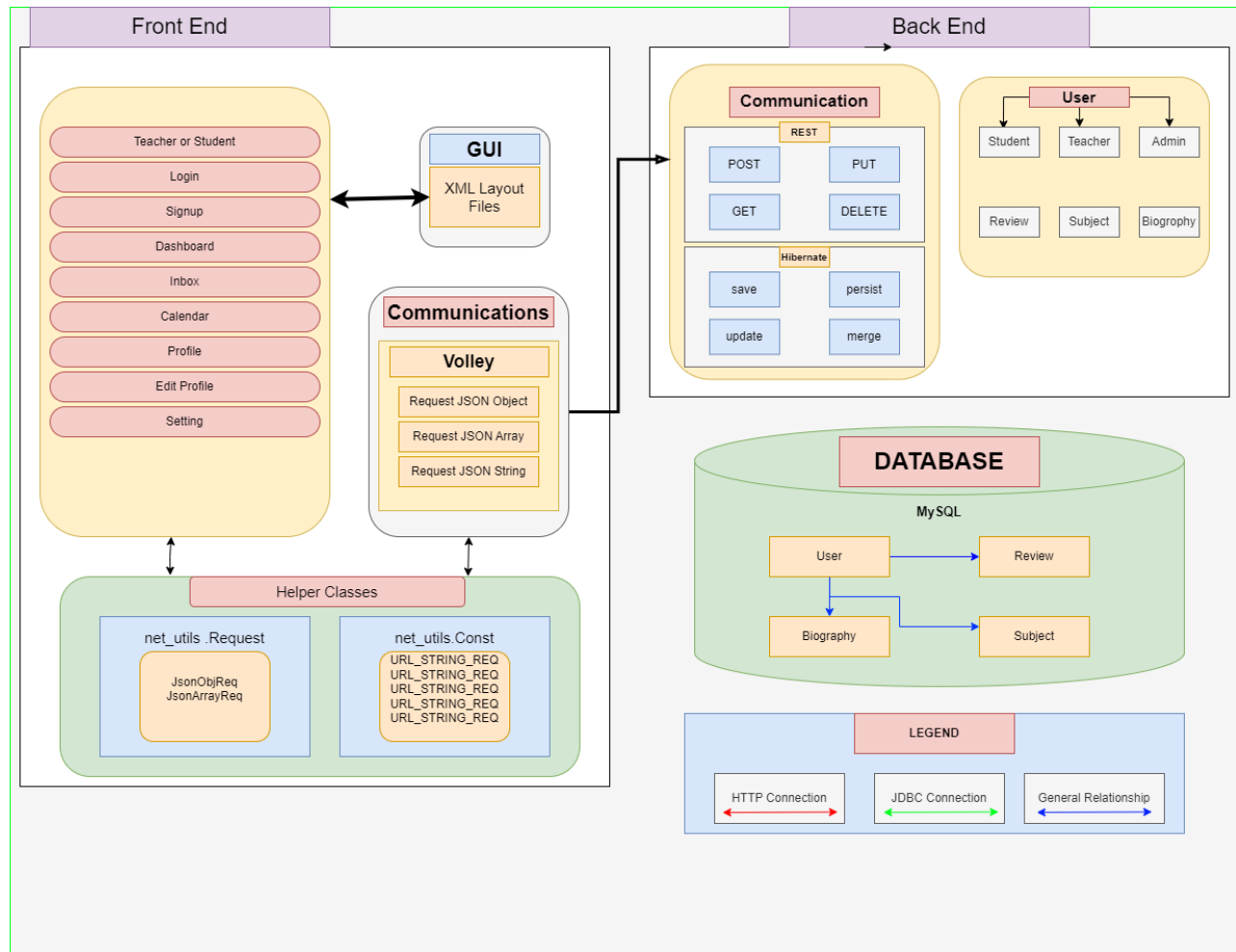
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# Block Diagram



## **Frontend (currently implemented)**

### SignIn (User)

- Create account generates a page with the following elements:
  - o EditText: UserID
  - o EditText: Password
  - o EditText: Email
  - o Button: CreateAccount
- Upon clicking the button 'CreateAccount' the values of the UserID, Password, and Email are sent as a POST request to the server.

### Login (Admin, User, Business)

- Create account generates a page with the following elements:
  - o EditText: UserID
  - o EditText: Password
  - o Button: Login
- Login Screen takes user input of their username and password, and if that username and password is valid, it will take the user to the main menu, where they are logged in as that user.

### AccountList (Admin)

- AccountList generates a page with the following elements:
  - o Button: Account List
  - o Table: Accounts
- Loading the this page or clicking the button 'Account List' completes a GET request from the server into the dynamic table 'Accounts'

## **Backend**

The backend uses mappings to update the database based on information sent to the given mappings' URLs.

which include:

- Post: send information on an item to be added to the database.
- Get: request information, often with an identifier for the specific item requested from the database
- Put: send information to update a specific item in the database
- Delete: send an identifier to delete a specific item from the database

## Controllers

The controllers contain the mappings for communication between frontend and the database.

These include:

- User: Contains the above mappings to create users, which contain one-to-one relationships with the below student, teacher, and admin type users.
- Student: Students have one to one relationship with teachers and are able to write reviews or biography. They also have the function to login as well as any user.
- Teacher: Teachers are given reviews from the students. so they have a one to one relationship with students.
- Admin: This has one to one connections with students, and teachers as well as the access to all parts of the tables which are the reviews, subjects, biography. Only admins can create subjects at the moment.

# Table Relationships

