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## Design Document for <<Phun Poker App>>

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Group <TA\_123>

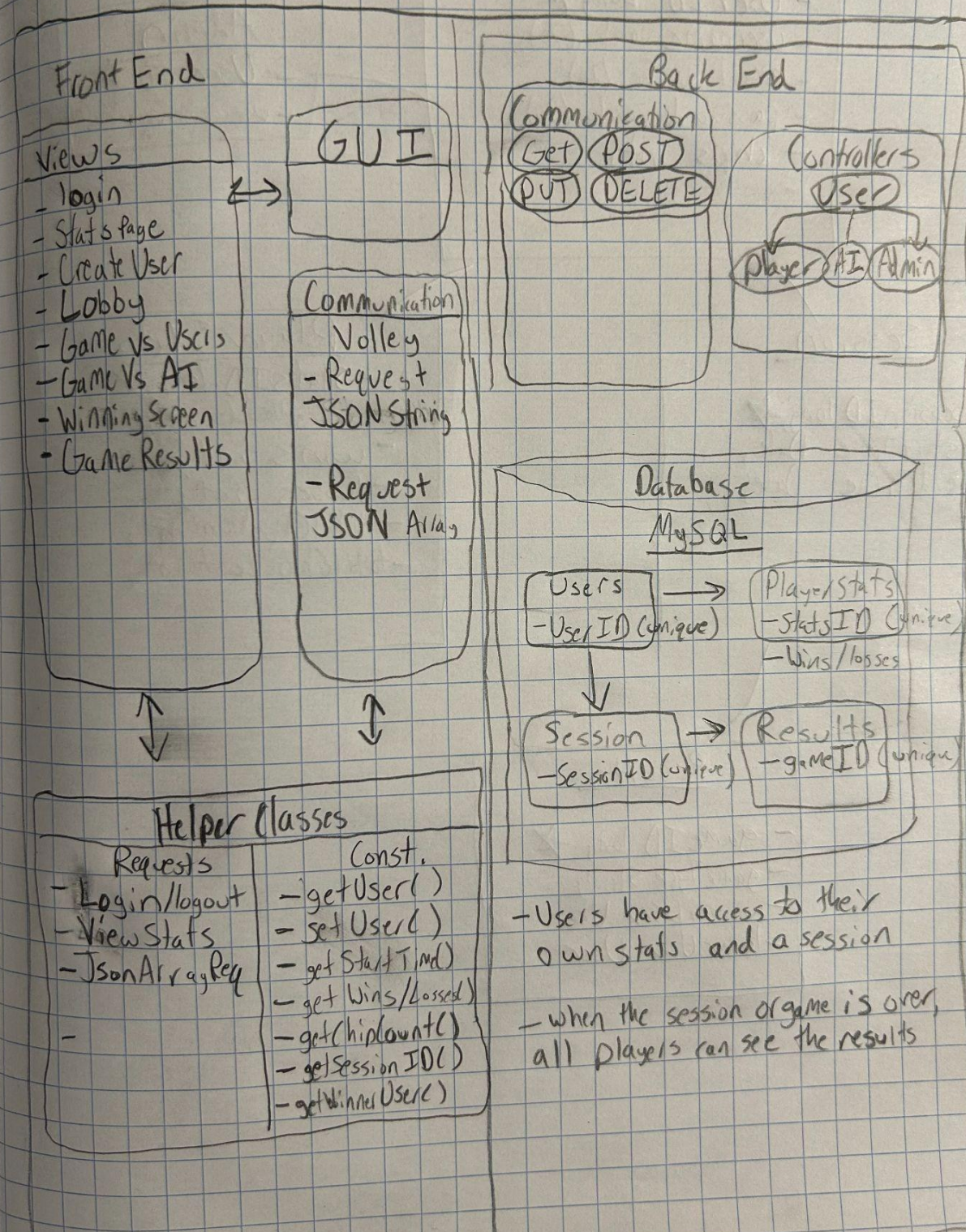
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# PO3 - Block Diagrams: TA-123



## Backend

### Communication

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

- Users: logging, create new user, update user, set up user, see past hands
- Session: see current hand, raise, call, fold
- Results: record of how many wins and losses everyone has, post hands as well
- PlayerStats: wins losses, amount of raises, calls, folds, etc.

### API

We will be using this api([Poker API - Simple JSON poker API to calculate winning hand](https://api.pokerapi.dev/v1/winner/texas_holdem?cc=AC,KD,OH,JS,7C&pc[]=10S,8C&pc[]=3S,2C&pc[]=OS,JH)) to input the hands which will say what hand wins and we will use the output back to the backend and into the frontend

- `curl https://api.pokerapi.dev/v1/winner/texas_holdem?cc=AC,KD,OH,JS,7C&pc[]=10S,8C&pc[]=3S,2C&pc[]=OS,JH`
- With this request we can edit it with the hands and then send the request to get the output

## Frontend

### CreateAccount (user)

- Create an account for a new player and store the following elements:
  - EditText: Username
  - EditText: password
  - EditText: email
  - EditText: login
  - Button: CreateAccount

### Login (user, player, admin)

- Login to account for specific player IDs
  - EditText: Username
  - EditText: password
  - Button: Login

- Login screen allows users to have a personalized account with their stats and unique ID. Login also determines if the user is a player or an admin and gives them different privileges based on their type.

View Stats (user, player)

- Generates a page with stats of the current player, including:
  - Button: ViewStats
  - Table: PlayerStats
    - gamesPlayed, wins, losses, totalChipsWon, totalChipsLost
- The stats screen allows users to view their overall game outcomes and see their winning percentages. They can also view how many chips they have before entering another game.

## Current Tables in DB

link: <https://dbdiagram.io/d/654bdfc97d8bbd6465c980a1>

