

Design Document for



Group 1_UG_1

Member 1

Caden: 25% contribution

Member 2

Manny: 25% contribution

Member 3

Jack: 25% contribution

Member 4

Ben: 25% contribution

Complex Design Explanation

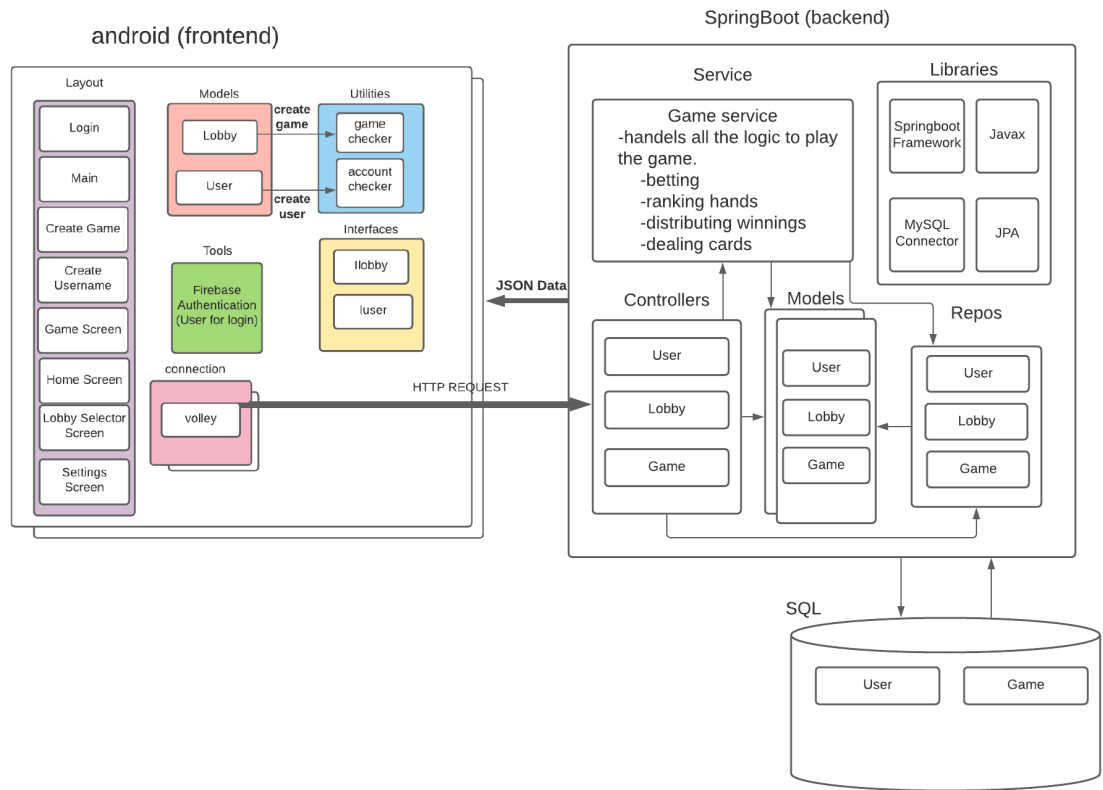
In our frontend we used a library called Firebase Authentication to help us manage our users. We take in a username and password and pass it to Firebase to handle our account creation where they store all of the information needed and we can ask Firebase for the user's ID which we store in our database for our purposes.

We also have a few different packages to separate some of our code. We used a Models package to put all of our models in. We have User and Lobby models to match with the tables that we use and in those models we handle our converting to and from JSON for our http requests. We also have an interfaces package. We use this to help use make our http calls easier and it also allows us to test our code easier.

We use XML for designing each screen and user Java classes to control how each XML file flow with each other and the user and application interact.

In our backend, we implemented a service called game service. This is used to set up the game and for the game functionality. It has functions like gameInit, which initializes the games, and play, which lets the user bet, fold or raise during that round.

We also made a private class called Deck to make a deck of cards with the functions of deal and deal public cards. This allows for the game to simulate a real deck so that the players are dealt real cards without repeats from a 52 card deck.



game	
id	VARCHAR(255)
active	BIT(1)
lobbyname	VARCHAR(255)
pot	INT
public_card1	INT
public_card2	INT
public_card3	INT
public_card4	INT
public_card5	INT
round	INT
Indexes	



user	
id	VARCHAR(255)
bet	INT
card1	INT
card2	INT
current_game_money	INT
displayname	BIT(1)
folded	BIT(1)
has_played	BIT(1)
is_spectator	BIT(1)
money	INT
position	INT
username	VARCHAR(255)
game_id	VARCHAR(255)
Indexes	