**Project Summary**

We are implementing a classic 4 player game, mahjong. This is a Chinese Game, a user will be able to play against 3 Artificial Players (this will be really simple, probably randomized) and display the rules and their current point standing. We will use a basic set of rules and scoring that we identify in the application in an “about”.

**Project Requirements**

1. Must be able to play 1 game of Mahjong
   1. Must be able to play 1 round
      1. Must be able to play 1 hand
2. Must allow User to Log in
3. Must allow User to Save and Access High Score
4. Minimum SDK version is 8
5. User has access to Rules on all screens

**Users and Tasks**

There will be one user who will be able to view the rules, high scores as well as play a game, a round, or a hand, and have the ability to quit.

**Activity Diagrams**

In your folder

**Architecture Diagram**

Talk to TA, app only interacts with Google API Engine Database, which will store Username/Password information as well as associated High Scores.

In folder.

**Data Storage**

We plan on using the Google API Engine Database to store each Username and Password.

**UI Mockup**

In your folder

**User Interaction**

1. User can click button to Log In
   1. User can type Username and Password on Log In screen and click Sign In
      1. Logs you in and brings you to Menu Screen as well as loads correct high scores for User if Username and Password match (Check this through Google API Engine Database)
      2. If Username and Password don’t match an error will be brought up with the option to reset Password
   2. User can click Lost Password if needed
      1. User will provide Username and click Send Email for Password Reset Button
         1. Email will be known through Google API Engine Database
   3. User can click Sign Up if they don’t have an account
2. User can Sign Up button
   1. User can provide information for Sign Up fields: Username, Name, Password, Re-type Password, Email
   2. User can view Terms and Conditions and check box if they agree to them
      1. If User doesn’t accept Terms and Conditions, they won’t be able to Sign Up
   3. User can click Accept to Sign Up after providing their information
   4. User can click Cancel to be returned to Menu Screen without being Signed Up
3. User can click Play button
   1. User if provided with 3 gameplay options: Short Game (1 Hand), Medium Game (1 Round), Long Game (4 Rounds, Real Game)
      1. User will be taken to Game Board after selecting a Game Type and pressing the Start Button
4. User can click About to see information on the app and its developers
5. User can click High Score Button to view their high scores if they are logged in, (Log in will be verified through Google API Engine Database)

Do we need to create Sequence Diagrams here?

**Class Diagram**

Tiles: http://icarus.cs.weber.edu/~dab/cs3230/labs/lab.4/mahjong\_tiles.png

This could get complicated for the entire game. How to do this…

**Use Cases**

As a player so that I can keep my high score I want to log in and have a scoreboard attached to my log in.

As a player so that I can choose how long I want to play for I want to have 3 game type options - 1 hand, 1 round, 1 game.

As a player so that I can play I want easy to read tiles and a nice backdrop.

As a player so that we can play the game I want to have a rules guide accessible in game and on the main menu.

As a player so that we can play the game without internet I want to have the option to play as a guest.

As a player so that I can discard I want to have an easy way to push tiles away.