System Design Document

NeverOvertime

Table of Content

| CRC Cards | 3. |
|-------------------------------|----|
| Software Architecture Diagram | 6. |

Front End Classes:

Class name: HomePage

Responsibilities:

- Provides a menu to navigate to other pages
- Show Shop Icon
- Show Play Button
- Create appealing UI
- Show user icon (avatar, name)

Collaborators:

 All other Pages (because HomePage is what the users use to navigate to other pages)

Class name: ShopPage

Responsibilities:

- Shows the items that can be purchased, and allows the user to buy the items.
- Show bank balance

Collaborators:

- The Shop class at the back end
- Profile class (Profile stores money)

Class name: GamePage

Responsibilities:

- Show card distributed
- Able to see user card when the round starts
- change bank balance after winning or losing

Collaborators:

- The game class at the back end
- Profile class (Money can be added to Profile when the game is being played.)

Class name: AchievementPage

Responsibilities:

- Allow user to view finished/unfinished achievement
- Display UI design
- Allow user to claim achievement reward

Collaborators:

- The achievement class
- The GamePage class
- The Game class

Class name: ProfilePage

Responsibilities:

- Allow users to see details of their account.
- Show Avatar
- Basic Stats
- Able to search friends' profile and their stats
- UI of user account

Collaborators:

- The profile class
- The Game class (you get tokens or money added to Profile, which will be shown on the ProfilePage)

Back End Classes:

Class name: Player

Responsibilities:

- Player is self-explanatory. The Player gets cards from the dealer and player the game
- When certain conditions are met, the player wins or loses.

Collaborators:

- Card class
- Dealer class
- Deck class

Class name: Dealer

Responsibilities:

- Deals cards to the player
- In the poker game blackjack, the player play against the dealer, so when certain conditions are met, the dealer wins or loses too.

Collaborators:

- Card class (Cards are contained in the deck)
- Deck class
- Player class

Class name: Home

Responsibilities:

Allow user to navigate to different page/screen

Collaborators:

- Profile class
- ProfilePage class
- Game class
- GamePage class
- Achievement class
- Shop class

Class name: Profile

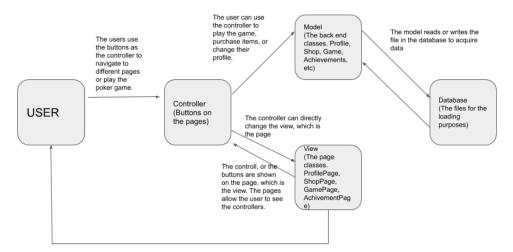
Responsibilities:

Register users account when created
Stores the details of user accounts.
Secure password
Allow users to delete their accounts.
List of friends
Search up friends

Collaborators:

Game class (stats)
ProfilePage class

Software Architecture Diagram



The users can view different pages of the programme to get feedback.