

Rags to Riches

Software Engineering

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[Github Page](#)

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1 Introduction

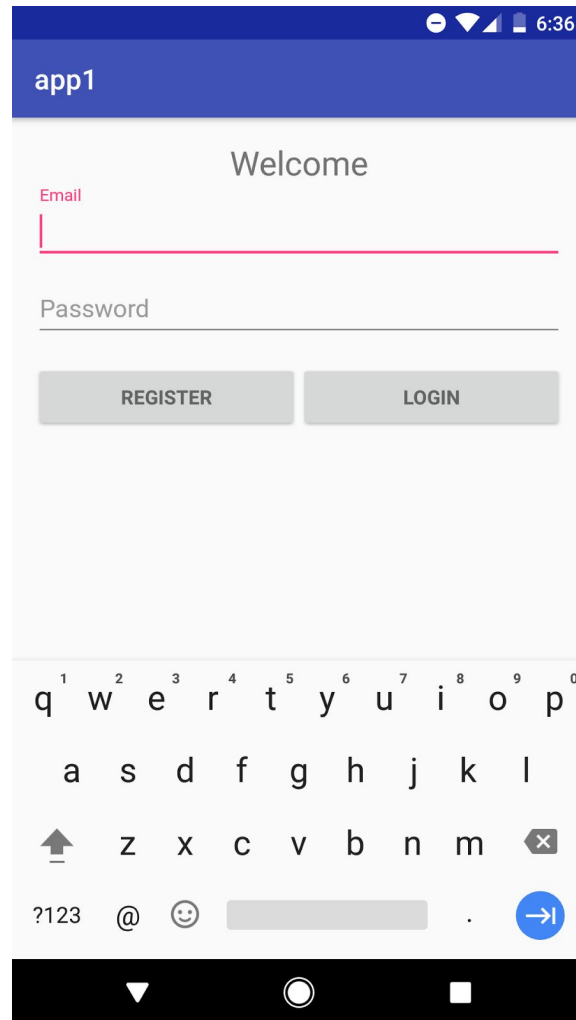
Rags to Riches is a mobile application soon to be offered in the Google Play Store. At the time it is only functional with Android devices. An emulator can also be used to access the application on compatible laptops, desktops and tablets. The latter requires a few steps for installation. Genymotion is an emulator that can be used in place of a default Android emulator. It can be downloaded from their website. An account must be created upon download. A prompt will ask if the user wants to install Oracle VirtualBox as well. This checkbox must be selected in order to confirm the installation of the software as well. After successfully installing Genymotion, a selection of virtual devices will be available. The one used for this demonstration was the Google Nexus 5. Once the virtual device is added to the account, the Rags to Riches application can be downloaded from the Google Play Store using the virtual device selected. The installation process of Rags to Riches is now complete.

2 Game Manual

Play with your friends using the private game option or play online in a public game!

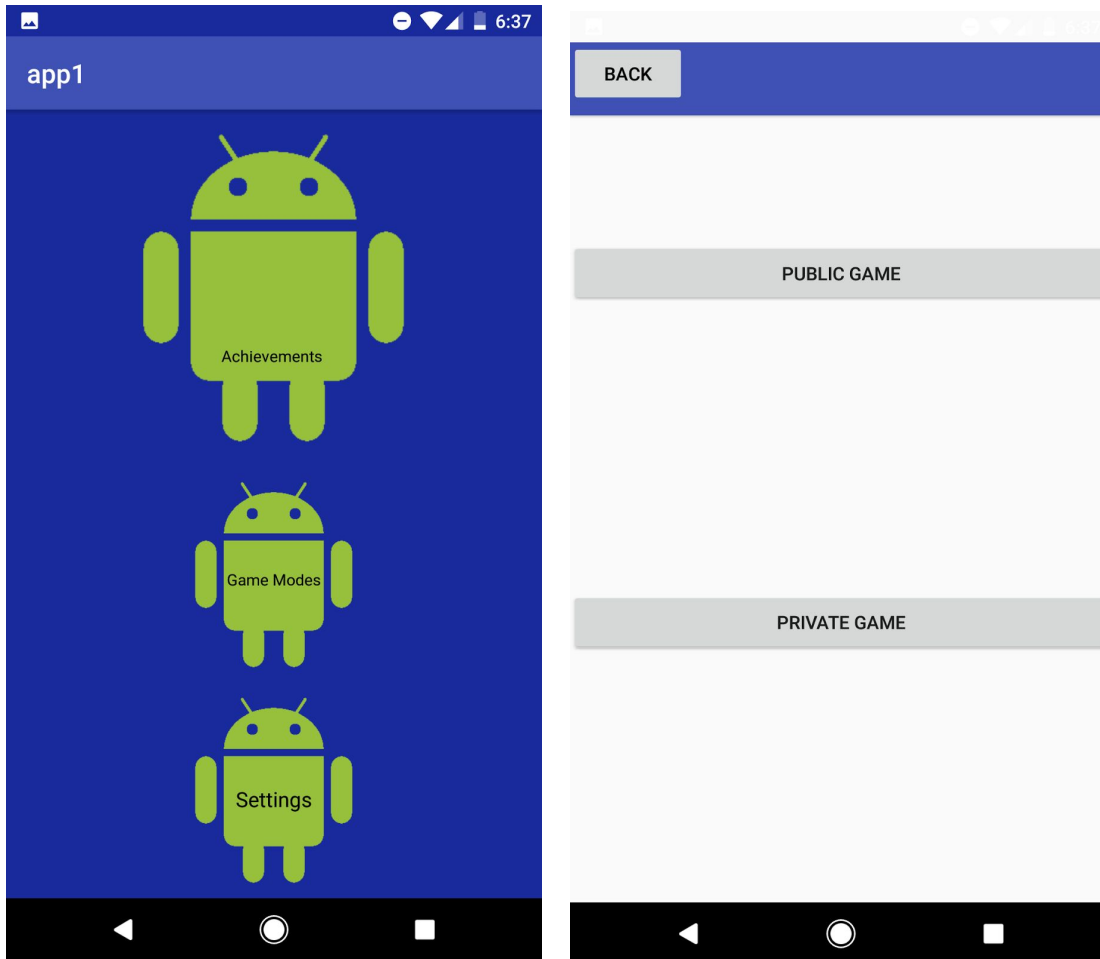
- **Players:** 4 players are required to start a public or private game.
- **Goal:** Strategically buy and sell stocks based on stock trends and have the most money at the end of the 15th turn.
- All players will have 2 minutes per turn to analyze the stocks in their game and decide to buy or sell stocks.* Every player will take their turn at the same time.
- If a player finishes their turn before the 2 minute game mark, they can choose to finish their turn. The game will then wait for the other players to finish their turn. If all players choose to finish their turn, the game will advance onto the next turn. Otherwise, the turn will automatically end when the 2 minute timer ends.
- View your currently owned stocks or other players stock balance
- Play expertly or unorthodoxly to earn achievements.

3 Login Page



After loading the app, an initial screen will appear with two buttons to either login or register. A user must have a registered account to be able to access any features of the app. There are two fields displayed for an email and a password. After the register button is pressed and there are no errors, the account will be successfully created and the user information will be stored in the database. Otherwise, if an inputted username is already occupied by another user an error message will prompt to input another username. The password requirements are at least four characters and a maximum of nine characters. The user will be directly taken to the home screen page after successful registration.

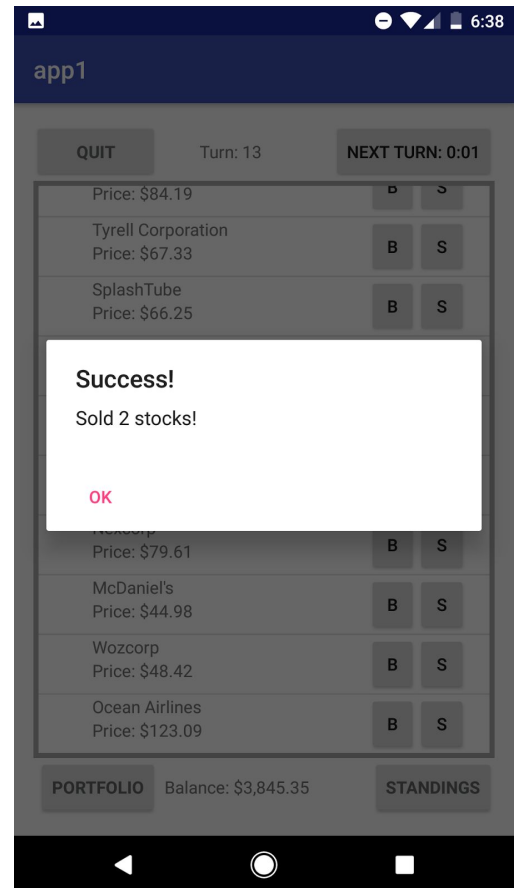
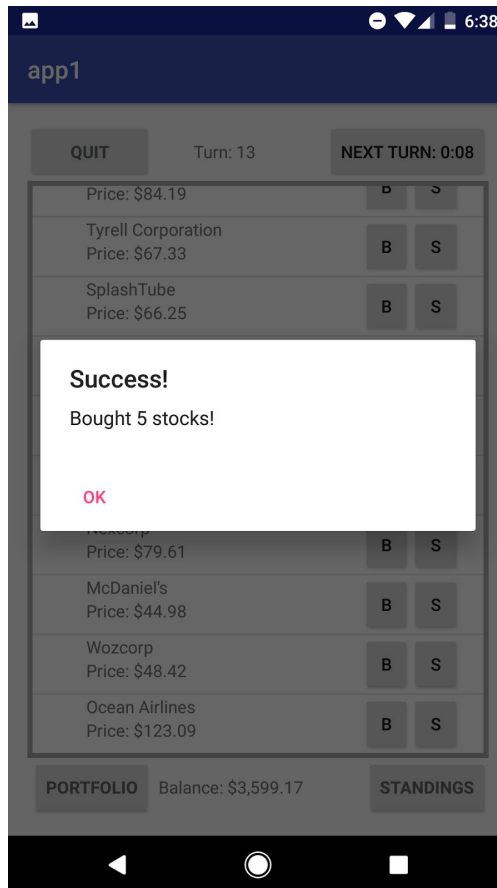
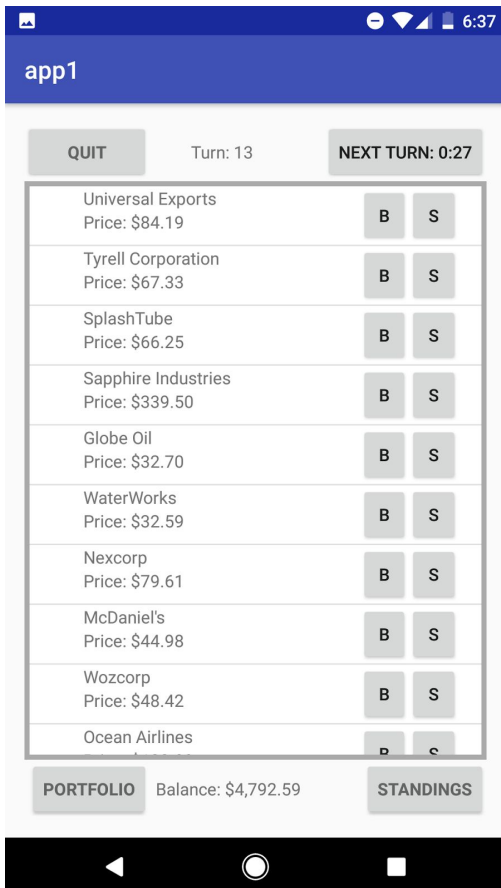
4 Home Page



The home page is the default page displayed after a user logs in. On this page a user will find most of the basic game features and personal settings. The Game Modes button will reflect a different page displaying either a public game or a private game option.

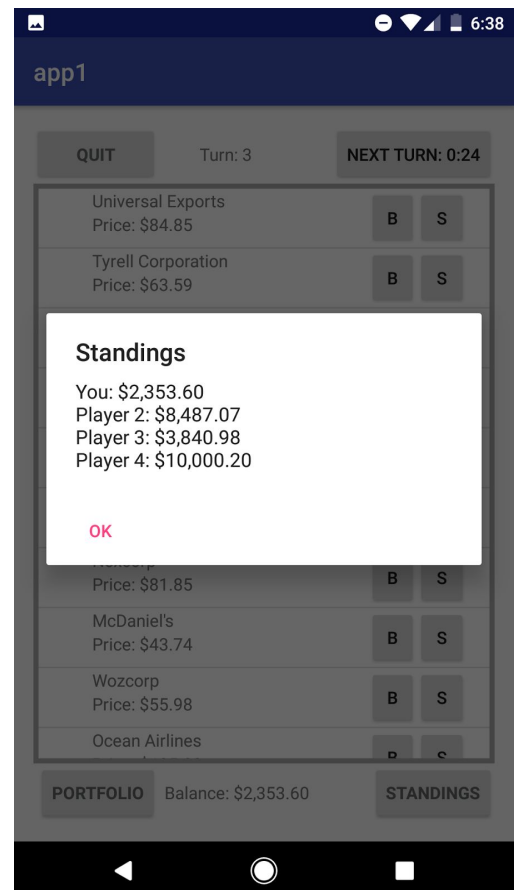
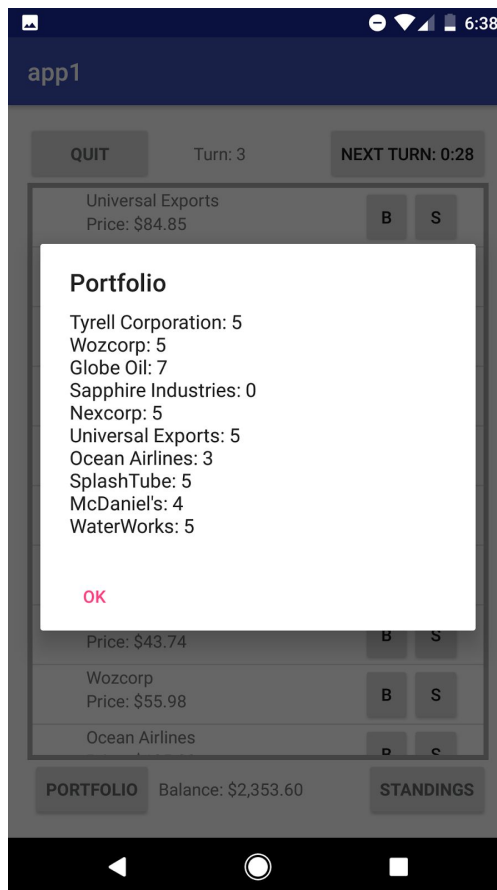
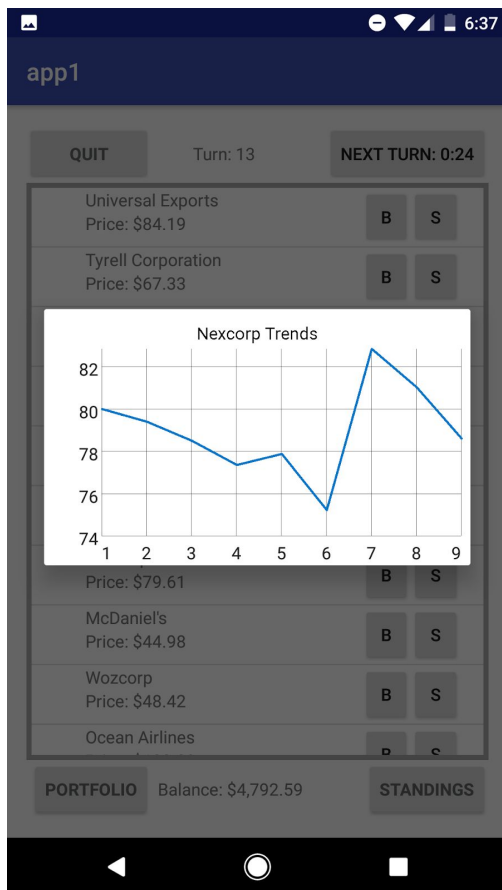
4 Game Page

4.1 Game View - Basic Functions



You've successfully entered the game if you see this screen! Explore the various companies and begin buying and selling.

4.2 Game View - Portfolio/Stock info/Standings



Examine the latest trends on the companies that interest you. Make informed economic decisions by consulting player portfolios to see owned stocks, and view current standings to get a perspective on other players' progress.