## 3D Tic-Tac-Toe



Group 30
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### Project Overview



- 3D Tic-Tac-Toe is based on the traditional 2D version but with a modified set of rules and up to four players.
- The game encourage interaction and competition among users.
- The game has been enhanced with the addition of player avatars, a new game board with interactive graphics, a chat feature and new award structure.
- To encourage competition among players we added power charms, the capability to build alliances between players and tournaments.
- The game will available for play in mobile devices and through the web.

### Design Goals

- Appealing to the eye
  - Needs to be bright colors to attract all different audiences
- Simple URL
  - Should stick in users mind so they come back for more
- Seamless communication between devices
  - Should not be relevant which device is connecting with which device

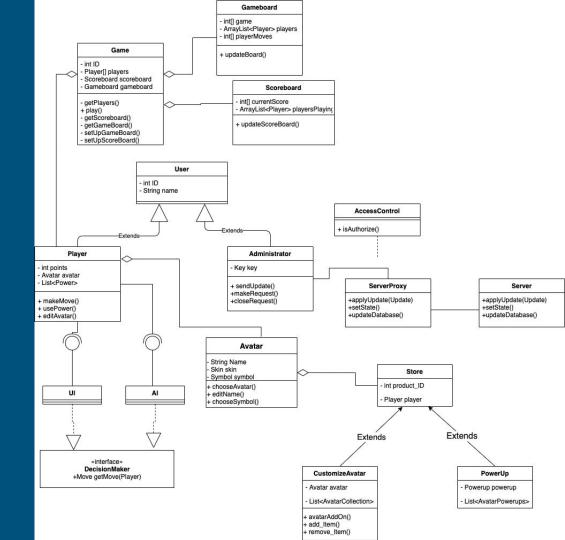
#### Constraints

- Must be available on the Google Play store, Apple app store, and microsoft store
- Full cross platform capabilities
- Must not take up more than 1.3gb storage
- Schedule Constraint
  - Initial marketing: January 2021
  - Testing phase: September 2021
  - Marketing push/customer beta review: February 2022
  - Release June 2022
- Budget constraint: \$300,000

### Architecture

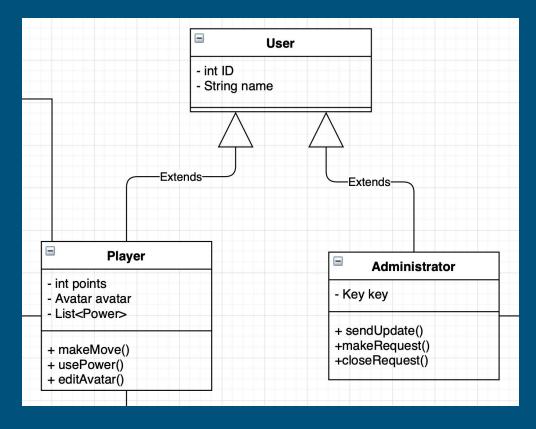
- Front-End
  - Model-view-controller set up
    - Model:
    - View:
    - Controller:
- Back-End
  - Client-Server setup

# Complete UML Diagram:



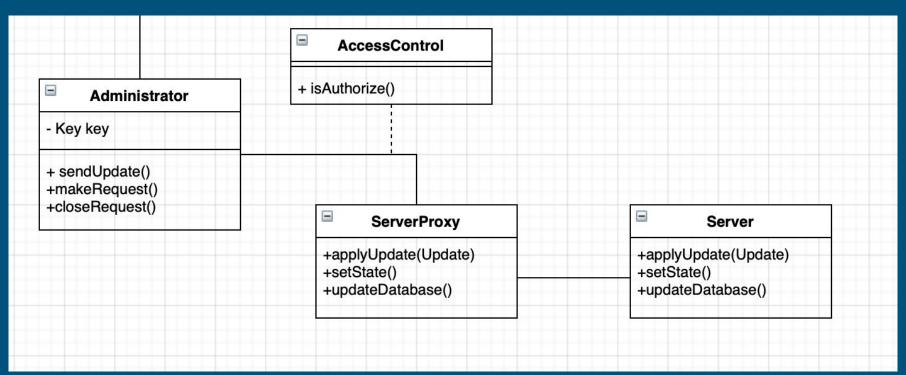
### User class



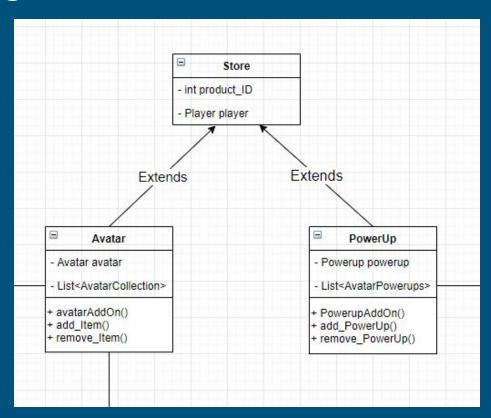




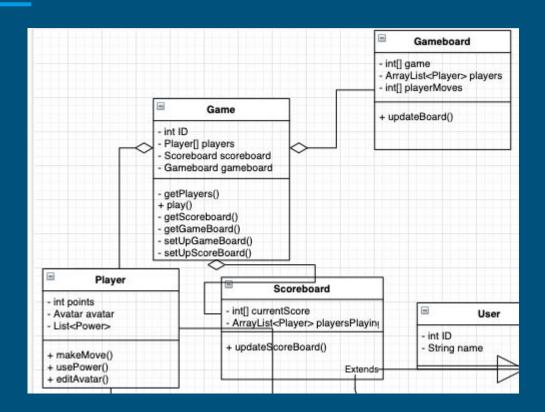




### **Store Class**



### Game Class



### **Avatar Class**

