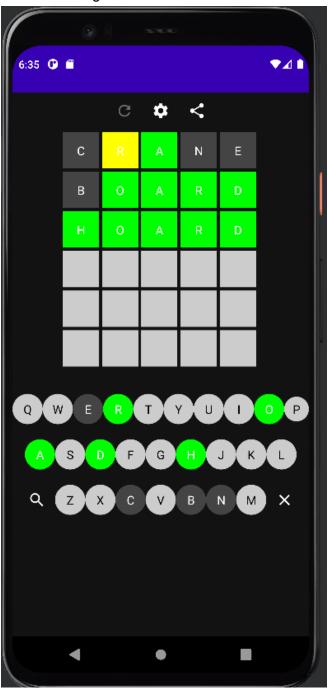
Project Objectives

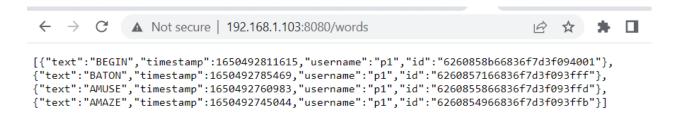
Make an Android app version of the popular online Wordle game. A user now can play the game through this Android app instead of opening the New York Time game link through a web browser.

Project Components

1. Client is an Android app with a Wordle game interface, similar to the current popular Wordle online game. Client also runs standalone as an offline app without a server.



2. Server side is a web service running on a PC. It provides the Word of the Day, the same concept from the New York Time game. Server stores the words contributed by users in JSON format (see the picture below)



<u>Technical Highlights:</u>

Client:

Android Architecture
Dependency Injection
Screen Navigation

Data Models

Real-time communication with server via web socket

Server:

Ktor (Web service framework from Jetbrain)
Database to store user submissions (Mongo DB)
Real-time communication with web socket

Build Instructions

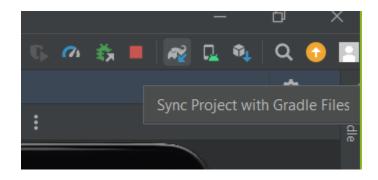
Client

Step 1: Clone the GitHub https://github.com/albertcool3/4631s2022.git

Step 2: in Android Studio, open folder 'wordle' and load the project

Step 3: in Android Studio, press "Sync Project with Gradle Files" (see below). This may take several minutes.

Step 4: Run the project in an emulator or a physical device.

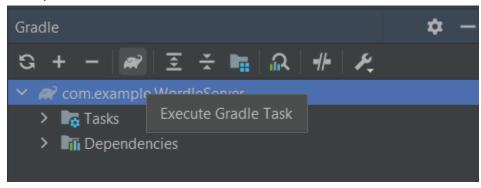


Server

Step 0: Download and install MangoDB Community Edition:

https://www.mongodb.com/docs/manual/installation/

- Step 1: Clone the GitHub https://github.com/albertcool3/4631s2022.git
- Step 2: In IntelliJ Community Edition, open folder 'wordleserver' and load the project
- Step 3: In IntelliJ Community Edition, click "Gradle" tab, refresh and 'Execute Gradle Task' (see below)



Step 4: Run the project

Launch Instructions

- 1. app-debug.apk is provided to launch the client as a standalone app.
- 2. Once the server is running on a PC, the client Android app simply add server's ip/hostname in its setting. The Android client is self-explanatory in either standalone mode or client/server mode.