Technology Stack Overview

Back end

- Apache Tomcat Java application sever
- RESTful Web service
 - Apache Derby database
 - Hibernate ORM
 - All entity classes
 - Spring Boot Data
 - All repository interfaces
- Service Controllers
 - Spring MVC
 - Controller classes
- o View building and serialization
 - Jackson JSON
 - All View classes
- Authentication
 - Google OAuth Bearer Token

• Front end

- Android OS
- Data model
 - SQLite
 - Custom entity and other model classes
 - Data access object (DAO) interfaces
- Remote service interfaces
 - SQLite
 - Room ORM
 - Custom entity and other model classes
 - Custom type converters
 - Data access object (DAO) interfaces
- Viewmodel componets
 - SQLite

- Room ORM
- Custom entity and other model classes
- Custom type converters
- Data access object (DAO) interfaces
- o View
 - RecyclerView.Apapter and RecyclerView.Holder
 - Many custom layouts
- Controller
 - Main activity
 - All other fragments
- Authentication
 - Google Sign in OAuth
 - Sign in class