

CSCI4448 Semester Project

Definote- A dictionary/notetaking app

A dictionary/notetaking app to allow users to quickly lookup and create entries. *Definote* will be written in Kotlin with the Gradle build system and designed to run on Android version-4.0 and greater. *Definote* will provide a various strategies for users to search through items in the database and also import their own dictionaries. A dictionary is an set of entries in the database identified by its name and containing a description and optionally links to other entries. *Definote* will also provide a way for users to create and edit their own entries. *Definote* can be used as a dictionary, a simple note taking app, or a lookup system for domain specific information.

- Team Members: Sean Shi, Jack Paulman
- Frameworks/Libraries: Android Libraries(SQLite database)

Features

Functional Elements

- ☐ Search: Allow the user to search through entries to find what they need, use the Strategy pattern for different algorithms.
- ☐ Database/Dictionary: SQLite
- ☐ Display: Screen to display user input
- ☐ Text Renderer: Allow the user to view database entries, perform syntax highlighting, emphasis markers, etc.
- ☐ Menu: Recent searches, adding new dictionaries
- ☐ Editor: edit entries or add your own entries to the database in a custom dictionary

Design Patterns (May include others as needed)

- ☐ Builder: Build a dictionary from a text file or something similar
- ☐ Factory: Create dictionary entries
- ☐ Strategy: Sorting/searching methods for finding entries
- ☐ Singleton: Single instance of the database
- ☐ Observer: Can be used for logging and to send notifications for interesting events