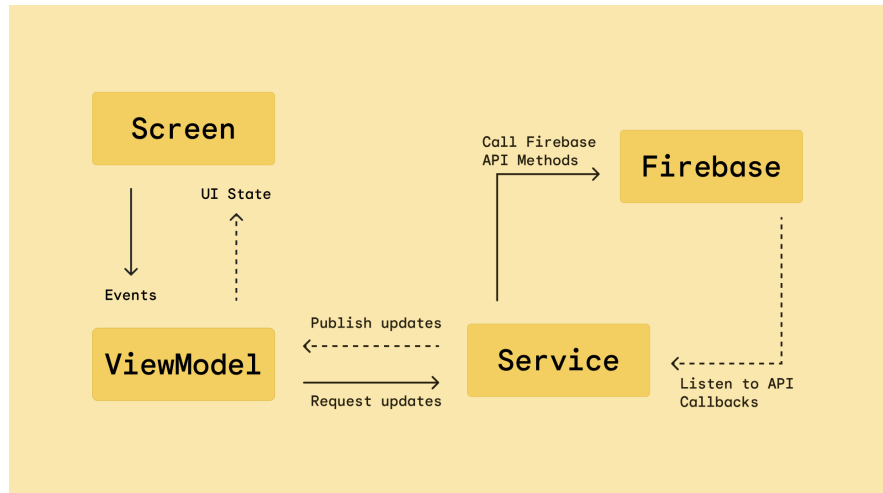


Coding Standards

MVVM Architecture

- Model-View-ViewModel Architecture
- Screen Data is accessed and modified in Respective ViewModel files, Screen UI is created and displayed in Screen files.
- In-depth description of MVVM architecture can be accessed through the link to [this blog post](#).



<https://firebase.blog/posts/2022/04/building-an-app-android-jetpack-compose-firebase>

KDoc Function Headers

- Function headers to describe function's usage and parameters.
 - In-depth description and example usage of KDoc documentation can be found [here](#).
- Example of KDoc usage from StorageServiceImpl.kt file below.

```
/**
 * Retrieves course data associated with a specified courseId as a CourseData object.
 *
 * @param courseId The unique identifier that identifies a certain course in Firestore
 * @param onSuccess A callback function called when the course data is successfully retrieved.
 *                  Receives the retrieved CourseData object as a parameter.
 * @param onError A callback function called when an error occurs during data retrieval.
 *                Receives an error message (String) as a parameter.
 */
override suspend fun getCourseData(
```

Retrieves course data associated with a specified courseId as a CourseData object.

Params: **courseId** - The unique identifier that identifies a certain course in Firestore

onSuccess - A callback function called when the course data is successfully retrieved. Receives the retrieved CourseData object as a parameter.

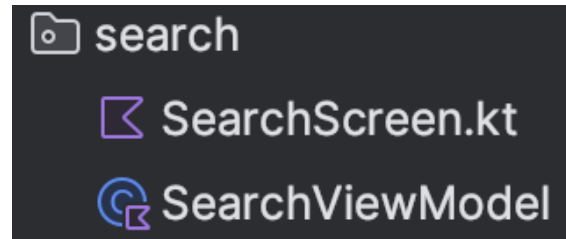
onError - A callback function called when an error occurs during data retrieval. Receives an error message (String) as a parameter.

Service Oriented Architecture

- Utilizes defined interfaces and dependency injection.
 - Back-end service providers such as Firebase referenced only in these service files.
 - See StorageService and AccountService files.

File Locations and Modularization

- Files are placed in packages that correspond to their intended use.
 - SearchScreen.kt and SearchViewModel can be found in the search package.
- Repeated code should be modularized if possible



Variable Naming Standards

- All variable names clearly show intent and reasons for usage, no one-letter variables.
- Named constants and defines are used instead of any “Magic Numbers”
- Camelcase Variables and Function Names
 - Good:
 - coursesToDisplay
 - onDateSelected
 - onSettingsClick
 - Bad:
 - class_schedule
 - temp
 - Home_Screen_Content

Coding Standards

- MVVM architecture
 - <https://firebase.blog/posts/2022/04/building-an-app-android-jetpack-compose-firebase>
 - Screen data is accessed and modified in ViewModel files, Screen UI is created/displayed in Screen files
- [KDoc](#) function header comments for each function
- Service oriented architecture that utilizes defined interfaces and dependency injection
 - Back-end service providers like Firebase should only be referenced directly here
 - See StorageService and AccountService as examples
- Files are placed in packages that correspond to their intended use
 - Example: the signup screen view models and views are in the sign_up package
- Variable names should clearly show intent, no one letter variables
- Repeated code should be modularized if possible
- No “Magic Numbers” use named constants/defines

Write camelcase variables and functions

Good:

myClassSchedule
mapView
classLocation

Def myFunction

Bad:

Def my_function

my_class_scheudle
map_view
test
Temp

notes:

- makeitso github has online graphs to describe mvvm