**App of your choice**

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| --- | --- |
| Course | INFO-5126 Mobile Development Advanced |
| Professor | Lianne Wong |
| Due | Nov 20th, 2024 at Midnight (group sign up sheet along with topic- see last page)  Dec 8th, 2024 at Midnight – project submission |
| Weight | 15% of your grade |
| Student Name |  |

**Project Description**

This project may be done individually or in groups up to 2 people per group.

The topic of the application is your choice however you must use one of the following API’s listed below or choose your own and have the following requirements: (Please note that there is a free tier for all these API’s but choose one which you won’t have to pay any money ie. With a decent amount of API calls per day)

1. API of your choice: If you would like to choose another API, please email me the API that you wish to use for approval.
   1. VisualCrossings Weather Data
   2. The New York Times: <https://developer.nytimes.com/> (Except ones done in class)
   3. Common Crawl: <https://commoncrawl.org/>
   4. NASA: https://data.nasa.gov/
   5. Yelp: https://www.yelp.com/developers

In addition: your application must use the following techniques.

1. Use of MVVM
2. Use of ViewBinding and at least one DataBinding
3. Use of Coroutines
4. Use of Firestore Database

Create an android application using all the items above. The app could do anything but should use all the components taught in class

**Core features:**

1. One activity describes what the app does and a list of all the people in your group.
2. Your application may be focused on anything except examples done in class

**Grading Criteria:**

This project will be graded using the following criteria.

|  |  |  |
| --- | --- | --- |
| Use of one of the API’s listed above, or another one if permission has been granted | 10% |  |
| Use of MVVM | 15% |  |
| Use of ViewBinding and DataBinding | 5% |  |
| Use of coroutines | 5% |  |
| Use of Firestore Database | 10% |  |
| Look and feel of the program (UI/UX) | 10% |  |
| How well your app utilizes the above technologies | 25% |  |
| An activity that lists what this app does, and the group members creating the app | 5% |  |
| In the Word document,   1. explain what your application does, 2. explanation where you used the above 5 requirements 3. screenshots of the code    1. where the databinding was implemented    2. where coroutines are used    3. where the firestore database is used 4. paragraph on what you learned | 10% |  |
| All activities have layouts that is visually appropriate in portrait and landscape mode. You may also lock the orientation. | 5% |  |
| Total: | 100% |  |
| Source code not submitted | -100% |  |
| Word document Screen shot of each activity not submitted | -10% |  |
| Movie of app showing the functionality not submitted | -40% |  |

**Grading Criteria: (For people who want to do their own project)**

This project will be graded using the following criteria.

|  |  |  |
| --- | --- | --- |
| Use of MVVM | 15% |  |
| Use of ViewBinding and DataBinding | 5% |  |
| Use of coroutines | 5% |  |
| Look and feel of the program (UI/UX) | 10% |  |
| How well your app does what was stated in the project | 45% |  |
| An activity that lists what this app does, and the group members creating the app | 5% |  |
| In the Word document,   1. explain what your application does, 2. explanation where you used the stated requirements 3. screenshots of the code    1. where the databinding was implemented    2. where coroutines are used    3. where the firestore database is used 4. paragraph on what you learned | 10% |  |
| All activities have layouts that is visually appropriate in portrait and landscape mode. You may also lock the orientation. | 5% |  |
| Total: | 100% |  |
| Source code not submitted | -100% |  |
| Word document Screen shot of each activity not submitted | -10% |  |
| Movie of app showing the functionality not submitted | -40% |  |

# Submission

1. Submit entire Android Studio project directory to Fanshawe Online in a .ZIP or .RAR archive file. If you have referenced any source code posted on the Internet, you must cite the source in your word document. You must also submit the following in separate files
   1. The source code compressed
   2. A Word document with the screenshots of all activities and citations of any work used to build your application.
   3. The movie of the app showing all the functionality in landscape and portrait.

INFO 5216 Final Project SignUp  
Sheet:  
(Submit this page for Project Signup (3% of grade))

Team (Up to 2 people, Name, Student Number, Section Number) :

Project Topic Title:

Project Topic Description:  
1) Which Web Server will be used:  
2) Goal of app:  
3) Uniqueness:

OR

1. What your app will do based on the second Grading Scheme