455/555 Final Project –Phase 2 Specs (150 points)

* App should be

-Thematic w./ colors, fonts, graphics, etc

-Use a friendly, intuitive, dynamic and creative UX

* Provides for an easy navigation, aka a fluid UI
* Presentation Points (25)

-Presentations will be live over Collaborate Ultra during week 15.

-Those not included for a live presentation must include a video presentation of your project by the due date of phase 2 into Blackboard.

-Group members must each speak on their involvement in the project.

-Each presentation MUST include ALL names of those working on the project

in a Powerpoint slide. (Timing of presentation = 10 minutes max per person or group. Time breakdown should be 3 – 4 minutes introducing your app via Powerpoint then remaining time should be your app demonstration)

* Documentation / Code Source (125)

Submit to Blackboard the following documents:

1. **PPT slides** that must include the following...

- A **title** page. Include ALL names of those working on project (if in a group)

- A slide describing your application (including any APIs included in your project)

- A slide covering the workflow diagram of your app activities/logic

- A slide covering your finalized app activity screens

Breakdown: Ending slides (**5-8**) should cover

**#1**) problems encountered during your project

**#2**) suggestive future improvements

**#3**) Optional Extra Credit snapshots clearly labeled

**#4**) Q&A

2. Thorough **snapshots into a pdf,** including any extra credit,all labeled in a clear descriptive manner. If there are any **logins** beside a Meta/Google one, please include your username / password **credentials** at the very beginning portions of your documentation.

Highlight the most important features of your app, i.e., libraries (dependencies), services, APIs, runtime UI/UX.

Snapshots may be part of your Powerpoint presentation!

Also in your documentation, include any source locations (urls) you are pulling API files/data from if and where applicable. Include your name on each of your Java files at the top part of your source code. If doing Github for extra credit include your private link. Make the TA a collaborator.

3. Finally include a **zip** file of your entire SOURCE files in your application including all pertinent **code files** and **xml files**, **data files**, etc.(Example => .java files (classes, activities, etc.)/all XML files (layouts, strings, AndroidManifest), .txt files, etc).

**Grading rubric**:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Category | Cat. Breakdown | | Overall Weight | Points (150 max) | |
| Presentation |  | 17% | | |  | |
|  | Presentation focus / participation |  | | | 25 | |
| Working app |  | 83% | | |  | |
|  | Documentation / snapshots |  | | | 25 | |
|  | Coding logic/data sources |  | | | 100 | |
|  |  | **Total points** | | | **150** | |

Score overall is based on group participation and focus. Also individual participation is duly noted.

Note you will be judged for completed work/presentation abilities—including participation, that is speaking about your involvement in the production of your app!

Work detail:

Include APIs and/or support libraries for your app, as directed below. APIs can include Android API Controls, SQLite, any Firebase APIs, Google maps, Meta, X, JDBC, other data sources, etc.). [Libraries](https://android-arsenal.com/) can include [Jetpack](https://developer.android.com/jetpack), Picasso, or any of the supportive AndroidX libraries.

Undergrads are expected to do 1 API.

Grads are expected to do 2 APIs.

You will be judged on bulk work, meaning inclusion of any API’s, services, libraries, data storage containment and overall uniqueness of the application. Error traps are also mandatory for any handling of input and output.

**Extra Credit (up to +20 points)**. Choose any two choices below for additional credit. Please notate EC work done in your documentation including appropriate snapshot(s).

- Outstanding navigations-fluid UI, menu driven, advanced views, processing of data.

- Additional API’s

- Background services and / or Widget creations

- Map Api (w./ multi-functional usages)

- [FB Messaging Service](https://firebase.google.com/docs/cloud-messaging/android/receive)

- Google Play Store analytics

- Publishing to Play Store or an acceptable clone site. Include digital cert ([app-signing](https://developer.android.com/studio/publish/app-signing)).

- Sensors

- [AWS services](https://aws.amazon.com/getting-started/hands-on/build-android-app-amplify/) (for back end dev.)

- Posting (incl. each team member if applicable) to Github. Include private link to your repo.