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PROJECT REPORT

Advance Software Engineering (DSM: 2021-2022)

**Answer to the question no. 1**

**Assignment Code:** After implementing each of the module I pushed my code on my [Github/fs-wise2122](https://github.com/AhmedDiderRahat/fs-wise2122) link.

**Answer to the question no. 2**

UML Diagram: UML stands for Unified Modeling Language. Its help to specify, visualize, and document models of software systems, including their structure and design.

These portion I will expalin 3 standard UML diagrams:

1. Use case diagram
2. Activity diagram
3. State diagram

* **Use Case Diagram:** In my use case diagram there are 2 actors and 7 use case. The figure is stored into ‘*fs-wise2122\report\Diagram*’ this directory.
* **Activity diagram:** In activity diagram we can see the interaction between each activity to others. The figure is stored into ‘*fs-wise2122\report\Diagram*’ this directory.
* **State diagram:** Hold the state of the system. The figure is stored into ‘*fs-wise2122\report \Diagram*’ this directory.

**Answer to the question no. 3**

DDD …………………….. will written here

**Answer to the question no. 4**

**SonarCloud Metrics:** I have done the metics work by using sonarCloud. My output linke is “\fs-wise2122\report\sonarCloud” and the cloud link is:

<https://sonarcloud.io/summary/overall?id=AhmedDiderRahat_fs-wise2122>

**Answer to the question no. 5**

**Clean Code Development:** In my coding implementation, I try to do clean coding.

* **5 points for clean code:** 
  1. Naming Convension: Throughout the project I tried to give all the variable a meaningfull name.
  2. Write meaningfull comment: I write comment whenever it needed.
  3. Do not use long parameter: I didn’t use any mehod with a long paremeter list instead of making a data class object to passed it. Screnshort can be found:
  4. Error handing: I handle all the possible errors. For that I used null checking as well as try…catch methods.
  5. Remove unused code: After completing each module, I removed the unused code/import.

All of Screnshort can be found:

<https://github.com/AhmedDiderRahat/fs-wise2122/tree/main/report/5A%20-%20Clean%20Code>

* **10 points for cheat sheet:** As I used kotlin as my development languagae. So, I used cheat sheet for kotlin.

**Answer to the question no. 6**

* **Build Management:** As I developed an adroid appliation, I use kotlin as programming language and android studio as my IDE. So I build my apk using android studio manager. And the link of the apk is given-

**Answer to the question no. 7**

* **Unit test implemenetation:** I implement unit test to check wheter the app name is correct or not. All the unit test codes are implemented to unittest pacakage. I used one dependency named “com.google.truth:truth:1.0.1” for implement unit test.