Test Plan

For Project Highedge co., CISC327 Group 10.

Organizing Test Cases of Different Levels

-There will be two folders contains test cases, one named Unit_Test and will contain all test cases at unit testing level, both frontend and backend, note that frontend and backend test cases will be written to different files which named correspondingly, to avoid confusion. Another folder named Integration_Test and will contain all test cases at integration testing level.

Order of Test Cases

-The frontend test cases in unit testing level will be performed first, the backend test cases in same level will then be performed after the frontend tests are done. Test cases in integration testing level will be tested after the test cases in unit testing level.

Techniques for Testing

-The major technique that will be used in testing is black box testing. Input partition testing will be used in black box testing process, that test cases will be based on input classes that partitioned by its positivity/negativity. Tests are done when all partitions were tested.

Tools for Testing

-When team members do testing individually, the major tool to be used is pytest. The major test level there is unit testing.

-After team members finished testing each of their parts, GitHub Actions will be used for integration testing.

Environments

-Local Environment: Git Bash, Windows CMD, MacOS Terminal.

-Cloud Environment: GitHub Actions.

Responsibility

-Group Member: Yang, Ao
 GitHub ID: CanonAY
 Email: 18ay@queensu.ca
 Responsible for: Testing of specifications in requirements R1, R4, R7 and R8

-Group Member: Huang, Jiaying
 GitHub ID: JiayingHuang
 Email: jiaying.huang@queensu.ca
 Responsible for: Testing of specifications in requirements R2 and R5

-Group Member: Yang, Ziyu
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 Email: 17zy73@queensu.ca
 Responsible for: Testing of specifications in requirements R3 and R6

-In case of failure, notice other team members with the detail of encountered failure.

Budget Management

-Before the usage of GitHub actions (for integration test), ensure that all test cases passed the unit test then minimal time will be spent on integration test, and so keep the test time within limited actions minutes.