By working in the same group, perform the series of tasks below, and submit the Project Report on/before ***19 Jan 2021 (Tuesday, before 5 pm).***

**Tasks to be done:**

1. Graphical user interface, application, Teams

   Description automatically generatedPerform at least THREE unit-test on the smart contract developed in Part-1 of the project. You may choose to perform the unit-tests either by :
   1. Using solidity and javascript, (follow the unit-testing style used in the pet-shop boilerplate, see <https://www.trufflesuite.com/tutorials/pet-shop>)

….OR….

* 1. A picture containing logo

     Description automatically generatedExtending the truffle project framework to include the tool *mocha*, see <https://mochajs.org/> (this was not discussed in class so you would have to study it yourself).

1. Design and develop a web user interface to Part-1 of the project so that a typical user (refer to the “actor” in the use-case diagram given earlier) can easily interact with it.
2. Again, when submitting your report, include the followings:
   1. Group members, indicating *“who did what”*
   2. Printed hardcopy of the full source code, ie components of your dApp.
   3. Also, email-attach the source code to *norbik@iium.edu.my* for testing
3. **Bonus part (optional tasks)**:
   1. Deploying from development onto a public test or production network.

Hint: To deploy the contract, you have to modify truffle-config.js, and other settings such as gas limit, gas price etc. A reference on this is at : <https://www.trufflesuite.com/docs/truffle/reference/configuration#networks> (max 5 marks)

* 1. Hard-core programmers: Develop a *mobile app* version of the frontend to the DApp, eg using Google’s flutter or any other tool you prefer, see <https://www.youtube.com/watch?v=1ukSR1GRtMU> (max 10 marks).

**---End of the specification for Part-2 of Project---**