Project Design Report [50% of project mark]

Design Report [100 marks]

Your Design report must include the following:

1) **[5 marks]** Database design (if exists). Provide ERD model and complete description for DB tables and relations. If does not exist, show the design of the used files.

2) **[10 marks]** The architecture models- for all levels. Also include communication and control modeling.

3) **[15 marks]** List of internal and external interfaces definitions.

4) **[30 marks]** Class Diagram, and classes detailed definitions. Show which classes implements which interfaces. Follow interface-based design approach. Make sure there is traceability between the names of the interfaces given in step 3 and the ones you used for class diagrams.

5) **[10 marks]** Show the mapping modeling matrix (i.e., traceability matrix) between the required use cases and the designed classes. If you have too many small use cases, try to group them into more general use cases. You can show this mapping matrix for different levels if necessary.

6) **[20 marks]** The sequence diagrams for main use cases– for all levels. Every team member provide the diagrams for one main use case.

7) **[10 marks]** The data flow diagrams – for all levels.

You should use a tool for producing diagrams such as Visio or you could draw them manually on power point, no hand drawing is accepted.

Submission Instructions:

1- Every team member must submit the project proposal <u>as a pdf</u> on Ms Teams.

2- Any submission not according to instructions will be rejected.

3- No Late submission is accepted.