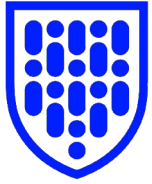




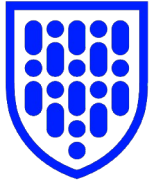
Software Engineering

Capstone Project



Capstone Project

- You are required to **define, design and deliver** a **software project** towards the end of the course, showcasing the skills you have learnt in the course. It will give you full exposure to the software development life cycle.
- Project deliverables:
 - Code (GitHub repository including a Readme file)
 - Presentation and Demo of 5-10 minutes
 - Project document (template provided)
- Please have regular check-ins with your lead trainer to maximise chances of a successful outcome



Scope

Your project must make use of the following:

- Client-Server architecture (or Client - Server - other services)
- A database for CRUD operations
- Displaying data and updating it
- A user interface to submit new data
- Unit testing

Examples include user management systems, an online store, or implementing a popular board game

Project evaluation criteria

The project is evaluated on the quality, clarity and completeness of its definition, design and delivery.

Define (10%)	
Business context, stakeholders and value <ul style="list-style-type: none"> Explanation of the business context Understanding and engagement of stakeholder User needs are well defined 	/10
Design (45%)	
Git/README <ul style="list-style-type: none"> README gives a detailed description of the project and how to install and run the program. Git goes beyond basic versioning, making use of releases and feature branches. 	/10
Documentation <ul style="list-style-type: none"> Using the appropriate level of details to document the problem, stakeholders and solution Organisation and structure of documentation and code 	/15
The project planning, effort allocation and next steps <ul style="list-style-type: none"> Understanding of the effort used to perform the design work and remaining effort to complete the project 	/10
Testing <ul style="list-style-type: none"> Your application has unit tests for all the functionalities End to End testing is complete, report show cases all the tests 	/10
Delivery (45%)	
Quality of Server <ul style="list-style-type: none"> The code reflects the MVC model (route/controller etc) and classes are used where appropriate The code is tidy and commented properly 	/10
User Interface <ul style="list-style-type: none"> The application is well constructed and attractive. 	/10
Functionalities <ul style="list-style-type: none"> The functions exist and work as intended. 	/10
Database <ul style="list-style-type: none"> Makes use of a database with CRUD operations 	/5
Live Demo, poise and audience engagement <ul style="list-style-type: none"> Ability to deliver a clear, concise and engaging presentation Ability to listen effectively and address questions Overall poise, confidence and rapport with the audience Keeping the time 	/10