Module Title:	Web Development for Information Systems
Module Code:	B9IS109
Module Leader:	Obinna Izima
Level:	9
Assessment Type	Project
Restrictions on Length	2000 words (minimum word count).
Assessment Title	Web application on a topic of your choice
Assessment Number:	1 of 2
Individual/Group:	Individual
Assessment Weighting:	85%
Issue Date:	**08/02/2023**
Due Date:	**17/03/2023 (23:59 pm)**
Feedback Date:	Hand in date plus 2 weeks
Mode of Submission	**Online via Moodle only.**

Total Marks: 100   **Weighting (85%) Web App (70 marks)**

Develop a web app on a topic of your choice using supportive frameworks and technologies.

The aim of the project is to test the student's ability to *research*, *design*, *implement* and *report* on relevant technologies related to Web Development for Information Systems. The project **must** involve a complete IS solution in the form of a Web App or proof of concept system.

Subject areas for this project cover a wide variety of areas, some covered in class, others requiring independent research. Applicable system administration technologies are:

- Use of a modern framework for interactive front-end showing evidence of user-experience design
- Suitable back-end technologies (relational or non-relational)
- Consumption of web services
- Technologies to counter security vulnerabilities
- Use of JSON/XML
- Design Patterns
- Deployment to Cloud

Report (20 marks)
Report must include the following topics:

- Research and Planning
- Choice of framework and technologies
- UX Design
- Web Service

- Security threats and Measures
- Features

Following will be considered to award the marks:

▪ The quality of the project report. A technical document is required with a word count of 1500 words. The format you choose must be of high industry level, professional standard. This should include a reflective paragraph describing your learning experience.

▪ Research, Analysis and Design - the extent of the background research and overall understanding of the project subject area; the quality of the analysis of the project; and the quality of the overall and detailed design of the system to be implemented.

▪ Completeness and Correctness - how complete your final artefact / deliverable / proof of concept system is and that they are valid.

▪ Achievement - the value and the usability of the project, including the project report and any software designed / implemented.

▪ Project Management - the overall ability of the individual to carry out a project successfully.

▪ **All submissions must be uploaded on Github with URLs to the repositories included in the report.**

Presentation (10 marks)

Presentation will be a maximum of 10 minutes with 10 minutes for questions. Your presentation must include a DEMO of your app which clearly show your chosen technologies setup and working correctly.

Marks will be awarded based on the following:

- Visual Design – clear and good slides, no typos or grammatical errors.
- Content – All content is properly included.
- Comprehensiveness – Ability to answer questions
- Presentation Skills – Engaging the audience. No slide reading, etc.

ASSESSMENT CRITERIA Criteria/Mark	< 40	40 - 49	50 - 59	60 – 69	70+
Report: 20 marks	No evidence of research. Very Poor and unclear justification of methodologies. Poor UX Design. Missing key features/parts. Includes very little on security threats or measures. Poorly structured with spelling and syntax errors. Shows no capabilities to complete project properly.	Some evidence of research. Some justification of methodologies. Acceptable UX Design. Includes some key features/parts. Also includes some security threats and measures. Demonstrates some structure with some errors. Shows some capabilities to complete project properly.	Sufficient evidence of research. Adequate descriptions with adequately stated details. Key areas are of reasonable standard.	Good descriptions showing evidence of research, all essential details covered. Key areas of the proposal stated clearly.	Excellent descriptions showing good research, clearly stated methodology. Comprehensive description of key areas with clear analysis of benefits of the Web project providing a robust solution.
Web App: 70 marks					

	Poorly designed front-end showing no evidence of user experience design. No back-end or weak backend design and connectivity. None/ inappropriate use of web services. No measures to deal with security vulnerabilities. None or poor use of	Some evidence of UX design is shown by the frontend. Some use of database which has some relevance to the context of Web app. Some use of web service without proper context. Ability to JSON/XML, use design pattern.	Fair and consistent front-end with Reasonable visual design. Reasonable use of backend. Sufficient use of key of key technologies such as JSON/XML, design patterns, deployment on Cloud.	Evidence of good UX Design by developing good navigation, consistent and unambiguous. Clear signposting and easy to follow navigation system. Good colour scheme, font's layout for usability and accessibility; consistent look and feel. Good use of key features with deployment on Cloud.	Excellent demonstration of UX design by developing consistent clearly labelled navigation system throughout with a variety of methods used including sitemaps, breadcrumbs trail, highlights and/or other techniques. Excellent use of key technologies such as web services, design
	JSON/XML. No design pattern. Not deployed to cloud. Un-organised structure with little or no navigation system. User typically feels lost, inappropriate colour scheme, fonts, inconsistent look and feel, etc. resulting in difficulties in accessibility and readability	Deployed on cloud with some features working on cloud.			patterns, cloud deployment.

Presentation (10 marks)	Poor slides with many errors, bad template, missing content, no engagement with audience, reading from slides, not able to answer questions.	Slides with some problems such as poorly structured, etc. some content missing, some engagement with audience, ability to answer some questions.	Reasonable slides with sufficient content properly presented. Engaging with audience but showing lack of confidence. Ability to answer most questions.	Properly structured and designed slides. Good presentation skills. Ability to answer questions with confidence.	Excellent slides and presentation. Ability to provide comprehensive answers to questions.