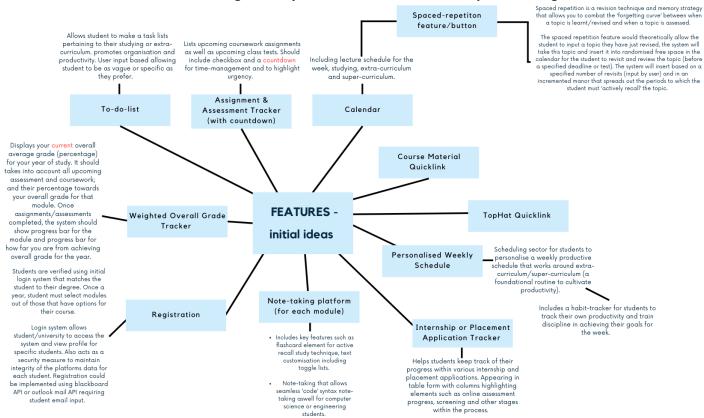
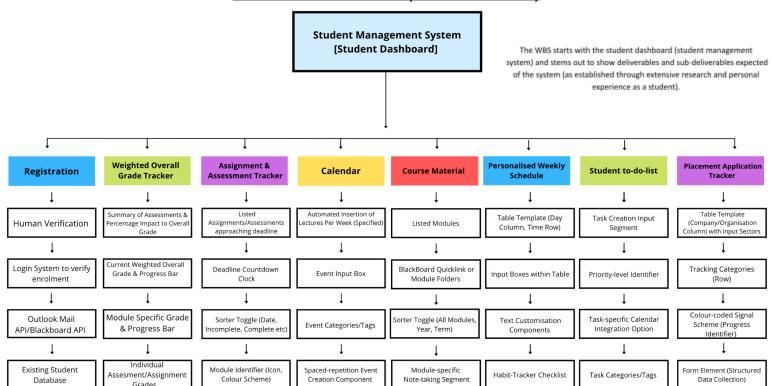
<u>Student Management System - Student Dashboard - Ayomide Balogun</u>



A detailing on the features that reflect my interpretation of the student management system and what I assume would be optimal and beneficial for the system. I have chosen to focus on a student management system that mainly showcases a student dashboard; this allows the institution to manage student data whilst

ensuring easy access to important information and resources for students.

Work Breakdown Structure (Deliverables Based)



Task Work Packages (Assigned)

Project Manager: The role of a project manager is to oversee day-to-day tasks required for a project's success. A project manager manages elements such as the timelines and budgets of an information technology project to ensure that implementation runs as smoothly as possible.

Applications Architect: Applications Architects are generally in charge of designing the overall structure and strategy of the software application using high-level architectural design, system integration and defining the blueprint for software applications.

Cloud/Software Applications Engineer: The Cloud/Software Applications Engineer implements and develops specific components or features based on the design (from the applications architect).

Quality Assurance Tester: Responsible for helping to uncover issues within a company's software by testing the functionality and usability of new or existing software before it goes live.

IT Training Consultant: Develop and optimise training programs for organisations to upskill in the use of information technology to meet their objectives or overcome problems.

Work Package Manager: Project Manager

- 1.1) Consistently record progress made using agile metrics.
- 1.2) Maintain a log tracking spendings over-time amongst the project budget.
- 1.3) Alert relevant sectors of the project for over-budget routes/patterns.
- 1.4) Relate project progress back to relevant stakeholders and clients who anticipate the full development of the system.
- 1.5) Attain formal permissions to store student information and enrollment information from institutions.
- 1.6) Organise consistent meetings and checks to track overall/specific project progress and performance.
- 1.7) Data collection from students/administration to determine preferred features and en-aid software development and planning.

Work Package Manager : Applications Architect

- 2.1) Establish the most suitable technologies, softwares and frameworks to implement the development of the system.
- 2.2) Define all wanted integrations between components such as integration between to-do-list user inputs and optional calendar insertion.

- 2.3) Architect the existing students database required for the registration system to allow platform access to students and administration only.
- 2.4) Establish potential API incorporations e.g Blackboard API for module contents or Panopto Embed API to embed recorded lecture videos.
- 2.5) Continuously refine systems architectural design based on (engineers and product manager) feedback.

Work Package Manager: Cloud/Software Applications Engineer

- 3.1) Implement API's to integrate third-party, beneficial and relevant existing student features such as outlook mail, blackboard module content and a calendar element.
- 3.2) Maintain technical documentation to uncover implementation progress, allowing for feedback to other teams on the project.
- 3.3) Implement foundation table feature to be used across both tracker elements and the student-to-do-list; build on coded template based on feature specification(e.g. Architect's design).
- 3.4) Implement a cloud system to allow students to store and access event/schule inputs from any device. Students/administration should also be able to access trackers and automated module content and more through cloud implementation.
- 3.5) Assure the dashboard is responsive on many different devices for increased usability.
- 3.6) Utilise and consider front-end development; Consider CSS and frameworks such as bootstrap studio across the system to allow appealing design that enhances UX. Uplift the countdown clock and trackers by considering front-end development for a clean overall look.
- 3.7) Implement main dashboard features.

Work Package Manager: Quality Assurance Tester

- 4.1) Verify security of the login system to maintain integrity of each student and their personal information.
- 4.2) Test speed and responsiveness of the dashboard across many areas of the platform.
- 4.3) Test that the deadline countdown clock runs accurately against real time.
- 4.4) Assure the security of forms requiring user input: placement tracker, calendar, mail form elements.
- 4.5) Implement validators into the event input sector of the calendar, and placement tracker to ensure correct data is passed into sectors, to promote structured data collection.
- 4.6) Assess performance response under large amounts of student logins (and administration accesses).

4.7) Implement relevant feedback regarding system quality from end-users and senior management.

Work Package Manager: IT Training Consultant

- 5.1) Provide learning resources to educate engineers and architects on upcoming technological innovations that could be implemented into the project to increase success and quality.
- 5.2) Develop training materials between Cloud/Software Applications Engineers and Quality Assurance Testing for consistent quality improvement and increase level of security across the platform.
- 5.3) Provide mentoring to team-members who are new to particular segments of the development.
- 5.4) Collect feedback from team members to establish project-relevant areas in need of training resources.

Budgeting

 1 x Project Manager, salary £85,000 per annum. Seconded to the project on an 80% basis

$$85,000 \times 0.8 = £68,000$$

 1 x Applications Architect, salary £60,000 per annum. Seconded to the project on a full-time basis.

2 x Cloud/Software Applications Engineers, both salaries £50,000 per annum.
 Seconded to the project on a full-time.

1 x Quality Assurance Tester, salary £60,000. Seconded to the project on a 75% basis.

 1 x IT Training Consultant, salary £40,000 per annum. Seconded to the project on a 30% basis.

$$£285,000 \times 1.5 = £427,500$$

Total technical equipment cost = £111,000

Total licenses cost = £ 56,000

Risk Register Project name: Project manager:

Risk Category: [1] Political; [2] Economical; [3] Social; [4] Technological; [5] Legal; [6] Environmental/Ethical

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Date raised	20/11/23	20/11/23	20/11/23	21/11/23	23/11/23	23/11/23	23/11/23
Risk Category	4	4	w	2	N	2	v
Risk description	Application implementation proves more complex than anticipated. Could implement the autre integrations across the development.	Continuous emerging of previously unidentified implementations required to create all specified features.	failure to manage end-user expectations.	Changes in the market affecting the project's aim to stay on budget or affecting overall financial workability.	Losing a key Cloud/Software Applications Engineer during the latter stages of the project.	naccurate estimators leading to inability to deliver the software within the planned budget.	Failure to determine all permissions that are mandatory to request before storing confidential student information and allowing institution administrators access to the student dashboard.
Risk Owner Person who will manage the risk.	Applications Architect	Applications Architect	Project Manager	Project Manager	Project Manager	Project Manager	Applications Architect
Likelihood of the risk occurring	Low	Medium	Low	Medium	Low	Low	low
Impact if the risk occurs	Medium	Medium	High	Medium	Medium	low	Hen
Severity Rating based on impact & likelihood.	LOW	Medium	Medium	Medium	Low	Low	Medium
Mitigating action Actions to mitigate the risk e.g. reduce the likelihood.	Essure the team members allocated to the project posses acceptible still within project posses acceptible still within qualified field (with demonstrated specialities) that match those of project criterial, that the still project criterial, commonably refine systems architectural design with Applications Architect. This softening and designing of all warned integrations between components.	Design process including the intricate breakdown of each feature and resolutation of the architectural designs. Aglie methodologies & meetings incorporated to identify potential spiralling of previously unidentified features.	le fleage with stakeholders regularly to confirme expectations are being met. Implement extensive user research to align the student dashboard with needs of students and institution; this includes the use of user feedback.	Account for potential market fluctuations where possible within budget.	Issure touvelage is preserved in the case of Assign replacement for josts and end expanses of insegnal team members explience. Cross channel team in the explication of the team interfaces train replacements with progressions made (and implementations engineer on recent progress using any progress logs, general to achieve them). United to achieve them).	Reine bugget estimation techniques suing historical data within successful and unuscressful projects (internal and external to the organisation).	Conduct an audit of data permissions and consure all required permissions align with data privacy regulations. Establish data access rules for administrators that may use the platform.
Contingent action Action to be taken if the risk happens.	Clear communication between developers and project in manager established to highlight complexities and roadiblocks met. Feedback delayed to IT Training who provides training materials and resources to en-aid developers in solving the complexities in suitable time.	incid meeting with relevant Continuous meeting-file team members to recidence but highlight any previously fleatures required and highlight undernified implementation. Incorporate implementation. Incorporate implementation in the text countries allows for friendle implementations without members without the countries.		Clear communication between stakeholders established to discuss adjusting financial plans to realign with market conditions, or alternative due to project no longer having financial workability.	engineer. Cross-trained team members train replacement to se engineer on recent progress using any progress logs, general documentations and agile metrics used till this point.	Re-evailate and potentially redefine budget; looking intricately at estimations and their alignments to the market (in terms of availability, demand, quality variation etc.) Clear communication between stakeholden established to discuss any adjustments of financial plans.	Suspend administrator access, identify missing permissions and change access rules or legally pursue and attain permissions required.
Progress on actions	Software's architecture intricately defined with demonstrating documentation. d	Continuous meeting held to b- highlight any previously tunidentified implementations; no unidentified implementations have occurred.	Regular meetings held with stakeholders, information successfully relayed to full team. Stakeholders satisfied with current progress.	Markets observed for any impacting market fluctuations. s	Application architects and Cloud/Software engineers cross-trained weekly on implementation, coding and data models used.	Log of project spendings kept and continuously reviewed alongside budget.	access protocols.
Status	Open	Open	Open	Open	Open	Open	Open