**User Stories**

* As a student I want to be able to answer questions so that I can participate in the research
* As a student I want to have access to an AI chat-bot to help me when answering questions
* As a researcher I want to be able to access what students asked the AI chat-bot in order to gain a deeper understanding of how students use AI
* As a student I want to be able to submit my code to answer coding questions
* As a researcher I want to be able to access students' submissions to the questions in the quiz so that I can review and compare that with the output from the AI chat-bot to see if students blindly copy what the AI tells them
* As a student I would like an area in the site where I can prepare for the quiz beforehand to familiarize myself with the contents
* As a student I want to be able to review and see what questions I got correct
* As a student I want to receive personalised feedback on my answers to help me in my future studies

**Functional Requirements**

**Student**

|  |  |  |  |
| --- | --- | --- | --- |
| **Must** | **Should** | **Could** | **Will Not** |
| View and attempt questions | See study material prior to taking the quiz | See specifically what questions they got correct and incorrect after taking the quiz | Receive personalized feedback on answers |
| Submit answers to questions | See their overall score for the quiz | Edit profile details |  |
| Interact with an AI chat-bot to assist with questions |  |  |  |
| Create accounts and login securely |  |  |  |
| Submit small (<10 lines) code for any potential code input questions |  |  |  |
|  |  |  |  |

**Researcher**

|  |  |  |  |
| --- | --- | --- | --- |
| **Must** | **Should** | **Could** | **Will Not** |
| Access what prompts students gave to the AI chat-bot for each question | Access students’ submissions to each question | Format of students prompts and submission data could be in a presentable format to make analysis easier | Built-in data visualisation to see how many students used the chat bot |
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|  |  |  |  |

**Non-functional Requirements**

**Performance:** The system must be responsive and react to users input in a timely manner. Additionally, the chat-bot must give responses as quick as a human would in normal conversation.

**Security:** The system must be secure, with authentication for user sign up and login. Appropriate security measures need to be taken to ensure any potentially malicious code users could submit as answers to questions do not run on the website system which could cause serious problems.

**Availability:** The intended usage of the system is as part of a survey which can be taken at any time, meaning the system should be accessible to users at all times while the survey is live and looking for participants.

**Usability:** Users must be able to navigate and use the system with ease. We want students to complete all the questions and make full use of the functionality of the AI chat-bot so it must integrate seamlessly and be easy to use.