

Group 2 One Page Reflection

| Requirement | Percentage | Notes |
|--|------------|---|
| User Roles and Permissions | 100% | |
| System Components - Core test generation module, Web Server, VSCode Extension Client, User Interface, Test Validation Module | 100% | |
| Accuracy and Reliability | 60% | Our original goal was a 90% compile rate for generated test cases. Unfortunately, we did not have time to implement a mechanism to ensure that the accuracy rate is always > 90%. However, the user will be provided with the stats and they can choose to generate new tests or edit existing tests to improve accuracy. |
| Programming Language Support | 80% | Due to time constraints and a breakdown in our professional relationship with our previous supervisor, we did not have the resources to implement a rigorous type checking mechanism using Pydantic to ensure that users are restricted from inputting arbitrary or unintended data. |
| Testing Methods | 80% | We did not have enough time to make 90% compile rate and 90% code coverage a hard guarantee. Please also refer to the row of "Accuracy and Reliability". |
| Error Handling | 100% | |
| Github Integration | 80% | Due to technicalities with security and limited time to authenticate our extension with GitHub, the application can only connect with public Github repositories, not private ones. |
| Look and Feel Requirements | 100% | |
| Usability and Humanity Requirements | 100% | |
| Chatbot | 0% | We removed the AI chatbot and replaced it with a more rudimentary imitation of it. A chatbot that |

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| | | <p>listens for replies and communicates with ChatGPT would have been too complicated to implement given the restrictions with time. Instead we have implemented a system which allows users to prompt the extension with preset commands and the extension updates the user on what is happening through on-screen pop-up messages and console logs. This way the user can see what the bot is working on and know when to proceed and when to wait.</p> |
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