

| Risk Number | Description of Risk | Probability | Impact | Mitigation Plan |
|-------------|---|-------------|--------|---|
| 1 | Unclear or unrealistic requirements and scope | 2 | 5 | Ensure that all requirements are reviewed by all members of the team and are thoroughly discussed prior to being confirmed. In addition to this, actively seek out the support from experts (i.e., lecturers and industry professionals) to ensure that the project scope is attainable within the allocated development window |
| 2 | Insufficient knowledge and background research of messaging applications | 3 | 4 | Carry out an intensive research process prior to beginning the development process to ensure that all team members are well informed |
| 3 | Security breach due to passwords being compromised | 2 | 5 | Add password encryption and (if feasible) two-factor authentication. |
| 4 | Team member falls ill due to ongoing pandemic or is otherwise unable to support the team due to extenuating circumstances | 3 | 4 | Assign a task to two members, the first member being the primary member incharge of completing the task. In the case they are unable to, the task is then passed onto the secondary member to handle task completion. |
| 5 | Lost data due to technical failure | 2 | 4 | Make regular backups |
| 6 | Tasks go over allotted time | 2 | 3 | Give buffer for overrun time at end of project - work to a week before actual deadline |
| 7 | Team member overwrites an existing file's contents on accident | 3 | 1 | Regularly use version control software (i.e, Git - GitHub) so that the file contents can be easily reverted to an older version |
| 8 | Users struggle to use the application due to unintuitive user interface (UI) | 2 | 2 | Ensure that during the testing stages user feedback is gathered with regards to the usability of the UI |
| 9 | Major bug found in testing stage | 2 | 2 | Agile devlopment allows for regular testing to prevent large scale bugs at the end of the project. |

| | Probability | Impact | Description |
|--|-------------|--------|--|
| | 5 | 5 | A risk event that if it were to occur, will have a serious impact on the project achieving its desired result. To the extent that one or more stated outcome objectives will not be achieved. |
| | 4 | 4 | A risk event that if it were to occur, will have a significant impact on the project achieving its desired result. To the extent that one or more stated outcome objectives will fall below acceptable levels. |
| | 3 | 3 | A risk event that if it were to occur, will have a moderate impact on the project achieving its desired result. To the extent that one or more stated outcome objectives will fall below goals but above minimum acceptable levels. |
| | 2 | 2 | A risk event that if it were to occur, will have a minor impact on the project achieving its desired result. To the extent that one or more stated outcome objectives will fall below goals but well above minimum acceptable levels. |
| | 1 | 1 | A risk event that if it were to occur, will have a minimal impact or no impact on achieving outcome objectives. |
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