# Risk Plan

| Risk | Risk Name | Description | Probability | Impact | Mitigation Plans | Contingency Plans |
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| 1 | Poor Quality application | The UI looks terrible, the application functionality is impractical, and the design code is too low-level. | 60%≤x <80% | (HIGH)Most students give the application a very low rating after using it, and most of users will be lost, and eventually the project will not be profitable and fail. | Provide sufficient budget and time for experienced development teams. Make sure they understand your requirements and expectations. If you have financial difficulties, take the shortcut and have to lower your expectations.Set a standard for quality control and adhere to it. | We had to add frequent updates and gain a full understanding of student needs and incorporate student user suggestions. Increase the budget for technology by referring to successful and relevant similar application. |
| 2 | Failure to launch the product on time | The application development took too long and various projects were seriously delayed, which eventually prevented the release from taking place within the specified time frame. | 80%≤x≤100 % | (Medium)Failure to launch the product on time means that the project is not completed ,and additional work time needs to be added. This adds to the cost. Also if the unfinished application is released it can directly lead to the failure of the whole project. | Project members control each small milestone in the project, to achieve to ensure the progress and acceptance of the project. It is also necessary to clarify the work content and job responsibilities of all parties in the project | Synchronize and archive information. Keep all stakeholders informed of the extension time point and the post-extension work schedule. Have a review meeting after the project! List the problems, who is responsible for who to solve, next time to avoid |
| 3 | Potential application bugs | It is inevitable that a complex application will have bugs! | 80%≤x≤100 % | (HIGH)The student user group has a very poor experience with the application, which increases the cost of post-maintenance and the loss of user groups. | Conduct adequate and thorough testing during the application testing phase. Try to use some auxiliary tools (Eclipse, IntelliJ IDEA) | After the application is online or provided to student customers, they should regularly track whether the application is working properly, if a student customer encounters a problem (may be a bug) should be done in a timely manner to collect and analyze the problem, and make the correct feedback processing.After finding a bug, you should immediately find the person in charge of the module to which the bug belongs, determine the solution, and promptly release the corresponding patch package. |
| 4 | Application was hacked | When your application starts to be profitable, it is highly likely that an unknown competitor will attack the server and cause your application to crash. | 30%≤x <60% | (HIGH)When the application is attacked, it is highly likely that the personal information of students stored on the server will be leaked, causing loss of property and damage to the reputation of the application. | In the development phase of the project, you need to find competent developers for system architecture and code writing. And the developer needs to have a good understanding of code security and be familiar with various mainstream attack methods. In addition to this there are various aspects of testing (such as black box testing) | Disconnect all network connections. The server was attacked because it was connected to the network, so after confirming that the system is under attack, make sure to disconnect from the network so that you can effectively avoid further attacks. Back up critical data and check if students' personal information has been compromised. |
| 5 | Insufficient time for application testing | After the application design is completed, a series of tests need to be conducted to find bugs and test the related environment as much as possible. | 60%≤x <80% | (Medium)The quality of the product is not up to standard and there are many bugs, which increase the cost of post-maintenance. | Mobilize testers to complete the test task, if necessary, should be given the corresponding material incentives. Every effort must be made to reduce the risks involved in testing and to maximize quality assurance and customer satisfaction. | The test results are irreversible, and if you encounter application quality problems or bugs, you can only rely on the team at a later stage to update and maintain the system, increasing maintenance costs and maintenance technicians. |
| 6 | Human Resource Issues | More frequent staff changes in key technical positions, Insufficient capacity of relevant technical personnel, etc. | 30%≤x <60% | (Medium)The development of application requires different personnel at different engineering stages and equally requires close cooperation between team members.HR risks can lead to longer product schedules, low productivity, low team morale, and non-cooperation. | Selecting the right people before hiring them, conducting targeted training, and placing the right people in the right positions. Targeted assessment of personnel can be conducted during participation in implementation projects. | The prerequisite for changes in development staff is the ability to ensure continuity of work. Assign the core work of the project to as many people as possible (rather than concentrating on individual people), strengthen the training and reserve of the same type of talent (to avoid shortage of manpower). |
| 7 | Insufficient project budget | When a project goes over budget, things get challenging for everyone involved as finance is scarce, and asking for more is not an easy job. | 30%≤x <60% | (HIGH)Inadequate budgets in the middle or late stages of a project can lead directly to project failure. | We may consider outsourcing. It is often cheaper to acquire external application and services than to develop them in-house.You can try to build accurate and detailed financial models for mini projects.Ensure staff productivity during the development process. You can try using off-the-shelf code | Eliminate waste. To maximize the use of budgetary resources, existing inefficient and redundant processes should be closely examined and improved.Accept reality and adjust your mindset and stress.Maximize efficiency! |

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| 8 | Unlimited spread of functions | Too many additional features are designed and application functions are becoming more and more complex. | 0%<x <30% | (low)application features are being developed more and more complex, with few practical features. | Before development, you need to communicate with the technical staff to fully understand the requirements. Identify the core application features and strictly implement the plans. Always check the existing functionality and effectiveness of the application. | We conducted a survey of our existing student customers, listened to and analyzed their opinions, and eliminated useless features at a later stage. |
| 9 | application Marketing Failure | Very few usc students are using the application after its release, and most are unaware of its existence | 30%≤x <60% | ((HIGH))After the application is launched, the small group of common users and low usage can lead to the application not being profitable in an effective time eventually the project fails. | Assemble a professional marketing team to analyze how and where to best promote to students. Good many promotion techniques do not require a large financial investment, the focus is on gathering statistics. Need to collect a lot of data on student users | Re-customize the marketing plan to try different directions and more user demographics (e.g. school faculty and staff) add more marketing budget. Re-select marketing team if necessary. |
| 10 | Incorrect roommate matching | The roommates matched according to this application may not get along well enough for various subjective or objective reasons. | 0%<x <30% | (Low)The roommate matching feature of the app will be rated very badly and will affect most people who will go for this app to find future roommates. | Information about the student is collected in as much detail as possible. Gather all information from habits, personality, gender, looks, culture, country, major, world view, life view, values, etc. | If a negative roommate match does take place, there will be a special organization to meet the requests made by both parties. If both parties choose to change roommates through the app, the app will match them with a new choice and have someone arrange for that. |
| 11 | Poor quality of used goods | The items purchased from other students are of poor quality, have little life span, do not meet the standards of use, and waste money. | 0%<x <30% | (Low)Student users have a low opinion of the functionality of the software for trafficking and purchasing goods, and there will be fewer and fewer users as time goes on. | For sale items, the buyer is required to provide full details of the item (not just photos) and may be considered for a limited warranty and full refund. | The application will consider recalling the merchandise and compensating the student with a certain amount of money, depending on the situation. |