Project Two | Hobby Web Application (HWA) | Risk Assessment

Usman Sajid

QA Digital Consulting

As this is an individual based project, the responsibility to mitigate each risk is under the consultants (Usman Sajid) responsibility.

[Risks Noted Before]

[General Risks]

Description	Evaluation	Response	Control Measures
(Risk#1) Technical Hardware Issues	Workstation breakdowns would result in failure to complete application within timeframe.	Utilize alternative workstation such as personal laptop whilst informing QA to issue another laptop as soon as possible.	Ensuring project follows iterative procedures (Agile/ SCRUM). Project is therefore broken down and each progress is regularly committed to remote. Should any hardware issues occur; can simply pull source code to personal laptop and carry-on work so that it is completed within deadline.
(Risk#2) Technical Software Issues	If the tools necessary to write, test and deploy code crash, this would result in incompletion of project within deadline.	Attempt to reinstall software and trouble shoot online for support.	Ensure software is regularly updated as it may resolve bugs.
(Risk#3) Internet Connectivity	Internet goes down preventing access to online resources.	Contact Internet Service Provider to resolve issue.	Until internet is resolved worked locally. Use mobile internet access where required. Hence, decreasing the impact of the time wasted.
(Risk#4) Consultants Health	Consultant falls sick or gets Covid-19; consequently, becomes weak and finds it difficult to work produce a good quality application.	Take rest and regular breaks. Inform QA academy if having difficulty.	Social distancing. Isolate if needed. Take medicine/ vaccination. Do not leave work to the last moments; instead work in smaller iterations and frequently.
(Risk#5) Failing to fully understand the scope	Not successfully reviewing the project scope and hence failing to meet MVP.	Review scope to ensure application is what's requested.	Constantly refer back to MVP checklist on scope document.
(Risk#6) Broken feature or bugs/untested code pushed to main branch	Application has bugs or does not run at all.	Switch to previous commit.	Utilize dev branch before pushing to main. Ensure unit tests for validation of the application, with aims to aim to reach industry standard of 80% test coverage.

(Risk#7) Website being inefficient in design and being not responsive	Website does not appear in accordance to initial design, doesn't respond, or is excessively slow	Review HTML, CSS and JS topics QA and other sources and ensure the code follows correct convention and design patterns	Actually use the website before final deadline, from the perspective of the user to ensure every aspect is functioning, responsive and is aesthetically pleasing.
(Risk#8) Unsuccessful Database Connection with HWA	Users created list is not saved as the connection between the front end and back end is not done correctly	Attempt to reload the page and check if local instance or GCP is working running.	Before final deadline, review code to ensure all connection aspects are correct and working properly

Potential Future Risks:

(Risk#9) User unable to access website	In the future, a potential user of the application may unsuccessful be able to launch the website	List instructions on ReadMe file.	Update instructions README.md file if any changes, listed on GitHub and the repo so that the user knows exactly what is required and how launch the HWA.
(Risk#10) Website not loading or crashing	On presentation day, when attempting to demonstrate website, the application does open or freezes.	Attempt to launch site again	Carry out respective test before final deployment. Surround any risky code in try/catch blocks in efforts for exception handling.

Risks experienced during project:

Risk Experienced	Description….	Solution….
(Risk#5) Failing to fully understand the scope	I kept diverting away from the minimum viable product and was distracted towards implementing additional features that weren't immediately necessary.	I found myself constantly referring to the scope of the project.
(Risk#7) Website being inefficient in design and being not	Although website was consistent with the initial mock design, I had experienced issues in which the site was not responsive. I would click on the drop down and some of the on click elements would function.	Searched online, including Stack Overflow to then have found solution to the HTML/CSS code.
(Risk#8) Unsuccessful Database Connection with HWA	Each time user would add an anime show to their watch list or add their star review rating, this would not update on the database. Hence, when the page was refreshed it would disappear.	Revisited code concerning database connection, fetch in JS, to find issue in methods until resolved.

Impact Level

Likelihood	Minor	Moderate	Major	Critical
76-100%	3	7	11	15
51-75%	2	6	10	14
26-50%	1	5	9	13
0-25%	0	4	8	12

Description	Likelihood	Impact Level	Risk Point
(Risk#1) Technical Hardware Issues	25%	Moderate	4
(Risk#2) Technical Software Issues	25%	Moderate	4
(Risk#3) Internet Connectivity	25%	Moderate	4
(Risk#4) Consultants Health	51%	Major	10
(Risk#5) Failing to meet the scope	40%	Major	9
(Risk#6) Broken feature or bugs/untested code pushed to main branch	45%	Moderate	5
(Risk#7) Website being inefficient in design and being not responsive	45%	Moderate	5
(Risk#8) Unsuccessful Database Connection with HWA	45%	Major	9
(Risk#9) User unable to access website	30%	Critical	13
(Risk#10) Website not loading or crashing	40%	Critical	9