Hobby Web Application

Risk Assessment

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QA

Overview

Risk assessment is important as part of a planning process to be aware of any obstacles and to prevent these from materialising.

Goals

1. To analyse all risks
2. To manage and reduce risks
3. Follow up midpoint assessment
4. Analyse the risk assessment at the end of the project

Milestones

I. Identify at least 3 risks

It's important to identify risks.

II. Manage and/or reduce at least 1 risk

Once spotted, risks should be worked around.

III. Identify new risks throughout the project

New areas of concern should be noted and risk assessed.

Risk assessment

Key

Likelihood

Rare	Unlikely	Possible	Likely	Certain		Negligible	Minor	Moderate	Major	Extreme
1	2	3	4	5		1	2	3	4	5

Impact

Risk rating (likelihood * impact)

Low	Moderate	High	Extreme
1 - 3	4 - 6	8 - 12	15 - 25

Risk register 1 - Initial scores & actions

Identification of risks along with scores and actions required to mitigate them.

Ref	Risk Description	Cause	Risk Event	Likelihood (1-5)	Impact (1-5)	Risk rating	Action
1	Lack of time	Improper time management	Not completing project & no job	3	4	12	Plan daily and weekly tasks, set targets.
2	Lack of experience	Not from a programming background	Not completing project & no job	2	5	10	Take notes, ask questions, read outside class, complete exercises.
3	Self management	Overworking & burnout	Not being able to complete course, physical/mental illness	3	5	15	Take breaks, set realistic goals, retain a sense of humour, socialise, ask questions and get help from others to ease the burden.
4	Worldwide disruption	COVID-19 outbreak	Illness, upheaval, global infrastructure strains	2	4	8	Social distancing, back up applications in case of outages, e.g. Skype & Teams.
5	Unreliable application	Not enough tests	Application is not as easily maintainable	3	4	12	Asking for help when stuck with tests, set aside days to complete these.

Risk register 2 - Midpoint scores, updates & actions

Follow up and update in the middle of the project to review progress and reassess the risks.

Ref	Risk Description	Likelihood (1-5)	Impact (1-5)	Risk rating	Update	Action
1	Lack of time	3	4	12	Additional training commitments & bank holiday compounded time issues.	Continued daily and weekly plans taking this into account. I did not panic.
2	Lack of experience	3 ↑	5	15 ↑	The previous weeks have highlighted a large deficit in knowledge. The speed of training, the volume of skills and remote learning have been challenging.	I used online help resources. I had to pin-point where I needed help in order to get targeted help from tutors and my peer group.
3	Self management	2 ↓	5	10 ↓	As far as possible I've tried to work standard working hours	I found video games to have a potentially negative effect and so have cut down on playing these to reduce screen time.
4	Worldwide disruption	1 ↓	4	4 ↓	Disruption has not been a significant factor, there have been no disruptions to infrastructure or to video conferencing software such as Microsoft Teams or WebEx.	The risk likelihood score has been reduced to reflect the current level of risk.
5	Unreliable application	3	4	12	Tests are still lacking because I need a functioning application first.	Complete application back end.
6	**New risk:** Non-functional database	3*	5*	15	Caused by: 1) Issues connecting to the database 2) Issues with database structure and relationships Could cause project to fail	Sought help, peer support refreshed my knowledge Peer support along with tutor discussions to decide how best to structure the database. I initially had a many-to-many relationship and then opted for one-to-many with a list.

Key:

Updated score indicator: ↑ ↓

New risk indicator: *

Risk register 3 - Final scores, analysis and actions

Analysis performed at the end of the project.

Ref	Risk Description	Likelihood (1-5)	Impact (1-5)	Risk rating	Analysis	Action
1	Lack of time	3	4	12	3 days were lost due to additional training, however this was mitigated because the project was extended by 2 extra days. I did not factor in that there would be a bank holiday, meaning 1 additional day was lost.	No action.
2	Lack of experience	3	5	15	JavaScript, API calls, HTML and CSS. I struggled to remember how to write JavaScript after a short break from it	Must consolidate knowledge after each newly learned piece of technology.
3	Self management	1↓	5	5↓	Burnout has been managed well with regular breaks, exercise and reduced distractions.	This risk is **closed**.
4	Worldwide disruption	1	4	4	There have been no changes to working patterns and remote working has become normalised.	This risk is **closed**.
5	Unreliable application	3	4	12	Tests are not thorough due to time constraints. The CI pipeline which I used required me to ignore tests further hampering them.	Add new tests and fix non-functional ones. Use YouTube and other resources.
6	Non-functional database	3	5	15	Issues resolved but I took too long to get help on this.	Seek help at an earlier stage.

Key:

Updated score indicator: ↑ ↓

New risk indicator: *