



# To-Do App

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## Overview

Risk Assessment acts as part of the project planning, highlighting any potential areas where issues could arise in the development of the project, providing appropriate measures to prevent these issues from occurring.

## Goals

1. To Analyse all potential Risk
2. Manage and reduce risk likelihood
3. Conduct a midpoint assessment
4. Analyse Risk at the conclusion of the pro

## Milestones

### I. Identify minimum 3 risk

Understanding what could go wrong helps preparations.

### II. Mitigate at least 1 Risk

Reducing the risk increases the chance of a successful project.

### III. Identify a new risk during the project

New Risk should be documented and assessed

## Risk Assessment

### Key

#### Risk Matrix (Likelihood against Impact)

	Negligible 1	Minor 2	Moderate 3	Significant 4	Severe 5
Very Likely 5	Low Med 5	Medium 10	Med Hi 15	High 20	High 25
Likely 4	Low 4	Low Med 8	Medium 12	Med Hi 16	High 20
Possible 3	Low 3	Low Med 6	Medium 9	Med Hi 12	Med Hi 15
Unlikely 2	Low 2	Low 4	Low Med 6	Medium 8	Med Hi 10
Very Unlikely 1	Low 1	Low 2	Low 3	Medium 4	Low 5

#### Risk Rating (Likelihood \* Impact)

Low	Moderate	High	Certain
1-5	6-10	11-15	16-25

## Risk Matrix 1 - Initial Score & Actions

Ref	Risk Description	Cause	Risk Event	Likelihood (1-5)	Impact (1-5)	Risk Rating	Action
1	Lack of Time	Poor Time Management	Incomplete Project	3	5	15	Make full use of Jira and Kanban board setting daily task
2	Lack of Knowledge	Limited HTML CSS AND JS Knowledge	Errors in Project	4	5	20	Be proactive in lecture and task time and google/ask questions when facing gaps in knowledge
3	Burnouts	Overworking & Unrealistic Goals	Incomplete Project and illness	2	5	10	Take breaks when getting frustrated, review goals, enjoy a healthy work life balance.
4	Bugs in app	Inadequate Testing	Unexpected Behaviours in app	3	4	12	Ensure that test coverage reaches the minimum and ensure that tests fully encapsulate the requirements of the code.

## Risk Matrix 2 - Midpoint in Development

Ref	Risk Description	Likelihood (1-5)	Impact (1-5)	Risk Rating	Update	Action
1	Lack of Time	3	5	15	Focused too much on finishing the testing for my API and haven't made a start on developing the front end	Focus Entirely on Front End Development
2	Lack of Knowledge	4	5	10	Since I haven't started on my Front-End I haven't been able to see where the gaps in knowledge stands	Ask Trainers for clarification where necessary
3	Burnouts	1↓	5	5	Since the start of the project went well I've been able to take regular breaks and enjoy some personal time.  Being locked in the house hasn't been enjoyable	Take walks and enjoy a variety of hobbies
4	Bugs in App	1↓	4	4	All API Test Passed	No Action Required
5	<b>NEW RISK:</b> Lack of understanding of GCP SQL operation	4	2	8	I haven't been able to see how the GCP instance fits into the project as the dev branch seems to work well	Link the GCP instance to the project anyway.

### Risk Matrix 3 - Upon Project Completion

Ref	Risk Description	Likelihood (1-5)	Impact (1-5)	Risk Rating	Update	Action
1	Lack of Time	2	5	10	Finished project on the day of the deadline	No Action Required
2	Lack of Knowledge	1↓	5	5	Turned out to be more of a lack of confidence than a lack of knowledge	
3	Burnouts	1↓	5	5	Enjoyed some new activities such as walking and Yoga feeling good about life	No Action Required
4	Bugs in App	1↓	4	4	Testing reaches a coverage of 88.7% and testing is thorough	No Action Required
5	Lack of understanding of starting infrastructure	1	3	3	Trainer Piers went through the complete structure of the IMS-Starter with the group so every misunderstanding was addressed	No Action Required
6	<b>NEW RISK:</b> Inappropriate use of Kanban board	5	1	5	Caused by: 1. Rabbit Holing into coding and forgetting to update Kanban board to show where task were at what point	Highlight this error in the final presentation
7	<b>NEW RISK:</b> Improper Git Structure	5	1	5	Rabbit Holing in project due to the lack of time due to poor time management	Highlight this in the Project reflection and ensure it doesn't happen again