

# Risk Assessment Document

Team 2

## Risk Identification

Risk	Description
API integration Issue	Some issues arise while trying to connect the APIs into our software.
Feature Creep	Too many features get planned and there is not enough time to add them all.
Technical Issues	Tools or services required to work on the project have issues or fail.
AWS Configuration	A misconfiguration in AWS causing critical issues in the database connectivity.
Team Member Unavailability	A team member is unable to participate in meetings or the project.
Incomplete or Late Delivery	The project is not ready for submission by the due date.
Incomplete Testing/Bugs	Issues still remain in the project due to a lack of time or improper testing.
Development Issues	Development of the project is delayed due to issues with implementing features.

## Risk Analysis

**Catastrophic** - May not be able to fix at all

**Serious** - can take hours or days to fix, or cause grades to decline.

**Tolerable** - may be annoying or frustrating to deal with but set back is minimal.

Risk	Probability	Effect
API integration Issue	Moderate: API integration issues can happen more frequently than other issues	Serious: Broken API calls can take hours to fix, and may require lots of research. An API issue could cause the whole application to fail

Feature Creep	Low: The features for this project have been planned out well, and most group members have experience with projects like this.	Tolerable: Excess features do not have to be implemented, and low impact features can be removed to save time.
Technical Issues	Moderate: There is a heavy storm that could cause outages, and group members may have their own tech problems.	Serious: Technical issues could lead to a member being unable to contribute, or several in the case of an outage.
AWS Configuration	Moderate: I do not believe that anyone has experience in every field of knowledge we need for AWS on this project, but we do have some experienced members in AWS.	Serious: AWS configuration issues could waste money, or cause the project not to function as a whole.
Team Member Unavailability	High: Balancing life, school, and work can be challenging, and across 6 members scheduling issues are likely.	Low: A member may miss a meeting, or an assignment may be reassigned, but solid communication will prevent delays in the project.
Incomplete or Late Delivery	Low: The project has been planned out well, and communications and rolls have been well established.	Catastrophic: An incomplete or late submission would severely impact the group's final grades.
Incomplete Testing/Bugs	Low: It is unlikely that we will catch every bug in the system, however testing will occur very regularly, and major bugs are unlikely to go unnoticed.	Serious: Bugs may impact the performance and usability of the product, and a major issue could cause parts of the project to fail.
Development Issues	Low: We have planned our project around our skill sets, and there are several examples we can use to help implement planned features.	Serious: A delay or the inability to implement a feature may require replanning to work around and time to get back on schedule.

## **Risk Planning**

Schedule Risk: To deal with any scheduling risks, team 2 will create a discord server where communication can come easy between all members. We will agree upon meeting dates, and discuss anything that comes up between meetings on this server. If the project falls behind schedule, the group can quickly communicate and reassign tasks to get back on track.

Resource Risk: Team 2 has decided to work on github, a stable website that rarely goes down or has any issues. But resources will be monitored closely and checked regularly to ensure the project is completed successfully and stably for all involved.

Scope Risk: Team 2 has defined the project scope confidently and efficiently in the project document with the plan to create a fitness tracker app. Emily is the project leader and can as such refine the scope of the project and communicate those changes with the team.

Technical Risk: Team 2 has established each member's technical skills, and has planned the project with them in mind. Should any errors occur more testing can be done to assure Team 2's project runs smoothly and correctly.

Financial Risk: Team 2 will place a realistic budget goal, and monitor the cost of the project throughout development to ensure that builds and features do not push the project cost over that budget. In the case that issues occur which create unprecedented costs, the team will communicate quickly and set up a plan to attempt to keep the project within budget.