Doy!
Risk Management Report

1 Introduction

The Risk Management Report outlines potential risks to be encountered during both the development phase and usage of the application.

2 Description

Below is a table listing all known and open risks to the project with their importance and mitigation strategies. The higher a risk is listed, the more important it is.

Risk Headline	Description	Mitigation Strategy	Priority
Time Underestimation	The development time is underestimated.	Put limitations on the project features and emphasize on finishing the ordinary features.	Very High
Third Party Service Integration Failures	Integration of Payment, Navigation and User Authentication services cannot be integrated or take more time than expected.	Look for easier alternatives. Accept limitations for these alternatives if the old system cannot be implemented.	High
Team Member Unavailability	Team members are ill or unavailable at key times.	Make sure all team members understand the system and can adapt easily to new roles.	High
Hard to use Software Tools	Some tools that are planned to be used are difficult to grasp and team members waste too much time training to use them.	Either look for other tools or plan a training session.	High
Size Underestimation	The size of the system is underestimated	Expand features if possible, or put limits on the system as we have a time constraint.	High
Custom Feature Integration Failures	Custom features such as vegan mode, allergen filters, recommendation systems cannot be implemented as expected.	See if the feature can be cut from the project. In the case that it cannot be cut, try to place limitations on what it can do.	Medium
Changes to the Tasks of Team Members	Team members unable to complete their assigned tasks and are assigned to different ones.	Make sure all team members get the most efficient training and understand the whole system.	Medium
Technology Change	Technology used must be changed due to inefficiency or incapability.	Determine other possible tools as fallbacks beforehand and switch to them.	Medium
Underestimation of the Debugging Process	The debugging process takes more time than expected.	Focus on creating test cases and pinpoint the reason of failure.	Medium

Underestimation of Team Member Training	The initial training of team members take longer than expected.	Arrange training sessions where team members come together and discuss about the material.	Medium
Too Many Unexpected System Crashes	The system crashes more than expected on ordinary events or due to an overload of user actions	Focus on creating simple test cases for events that cause a crash on the system.	Medium
Low User Count	The system is not used enough by customers, restaurant owners and/or couriers	Analyze user reviews, arrange campaigns and focus on the weak points of the system.	Medium
Requirements Change	There will be a significant number of changes to the requirements.	Make sure the software is designed so that changes do not break the entire system. Use design patterns and good frontend-backend practices.	Low
Product Competition	A competitive product similar to ours is released before the system is completed.	Analyze the competitor and focus on implementing its weak features more efficiently. Also, look for important but missing features.	Low
Poor System Security	Data and payment security methods are not secure enough.	Look for better third party alternatives.	Low
Server Side Failures	The server is unable to respond to certain events, more frequently than expected.	Focus on creating simple test cases for events that cause a crash on the server.	Low
Boot Failures	The system fails to boot.	Look into the system configuration files and check browser compatibility.	Low
Incapability of Database	The database is incapable of managing efficient storage and transactions of data.	Use a different database or debug data transactions to see if any improvements can be made.	Low

3   Risk Management Report Specifications

Below is a list of the most critical risks.

Risk Headline	Description	Mitigation Strategy	Priority
Time Underestimation	The development time is underestimated.	Put limitations on the project features and emphasize on finishing the ordinary features.	Very High

Third Party Service Integration Failures	Integration of Payment, Navigation and User Authentication services cannot be integrated or take more time than expected.	Look for easier alternatives. Accept limitations for these alternatives if the old system cannot be implemented.	High
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Hard to use Software Tools	Some tools that are planned to be used are difficult to grasp and team members waste too much time training to use them.	Either look for other tools or plan a training session.	High
Size Underestimation	The size of the system is underestimated	Expand features if possible, or put limits on the system as we have a time constraint.	High

3.1. Tailoring

The risks will be mitigated considering the size of our team and our time constraints. Since we expect not to have much time designing the perfect food delivery application, when we encounter certain risks, we will try to at least make the system perform and respond to ordinary user actions. For example, if we've underestimated the size of the system, we will be fine with putting limitations on the system and stick with implementing the basic features first. As another example, if we fail to integrate a third-party service that is not critical like Google Maps to help couriers navigate, we will skip that part.

3.2. Representation

The risks were assigned priorities based on the multiplication of the probability of the risk happening and the impact of the risk. Below is the simple algorithm to decide on the priority of the risk based on this calculation:

- The calculated value is less than 1: Priority is "**Low**"

- The calculated value is between 1 and 2: Priority is "**Medium**"

- The calculated value is between 2 and 3: Priority is "**High**"

- The calculated value is greater than 3: Priority is "**Very High**"

Below is a list of the risks identified or observed at the project planning phase.

Risks Forecasted in Planning	How it was Handled
Third Party Service Integration Failures	Decided to look for easier alternatives and accepted limitations for these alternatives.
Hard to use Software Tools	Replaced some of the tools with easier ones and planned training sessions.

Custom Feature Integration Failures	Decided to make some of the features easier to implement by reducing its capabilities.

Risks NOT FORECASTED in Planning, but observed	How it was Handled
Time Underestimation	Planned to organize meetings more frequently.
Team Member Unavailability	Planned to give each member tasks every week to make every one feel familiar with the project.
Changes to the Tasks of Team Members	Gave each member more specific tasks in the role they were assigned to maket hem more familar with their role.

4 Traceability Table

Works/ Team Members	Barış Yıldız	Said Çetin	Abdussamet Tekin	Muzaffer Berke Savaş	Mehmet Oğuz Kocadere
Preparing the Risk List	X				
Tailoring Risks Section	X				
Representation of Risks Section	X				
Total Effort	3 hours				

5 Prompts

No AI prompts were used in the making of this document.