



## PROJECT TITLE

Presented

To the Faculty of Effat University,  
Jeddah, Kingdom of Saudi Arabia

In Partial Fulfillment of the Requirements  
for the Degree of Bachelor of Science in

Computer Science

**Supervised By:**

**Written By:**

Date Last Edited: September 29, 2024

# **Abstract**

Project Title

A summary of your project in no more than 350 characters.

# Acknowledgements

[Cite contributions that helped in the project finalization]

# Contents

<b>Abstract</b>	<b>1</b>
<b>Acknowledgements</b>	<b>2</b>
<b>1 Introduction</b>	<b>7</b>
1.1 Problem Statement . . . . .	7
1.2 Scope . . . . .	7
1.3 Outcomes/Objectives . . . . .	7
1.4 Methodology . . . . .	7
<b>2 Background and Review of Literature</b>	<b>8</b>
2.1 Related Work . . . . .	8
<b>3 Analysis and Design</b>	<b>9</b>
3.1 Analysis . . . . .	9
3.2 Design . . . . .	9
3.2.1 Problem Statement . . . . .	9
3.2.2 Requirement Analysis . . . . .	9
3.2.3 Use cases . . . . .	9
3.2.4 Design Diagrams . . . . .	9
<b>4 Implementation</b>	<b>10</b>
4.1 Hw and Sw Requirements . . . . .	10
4.2 Data Details . . . . .	10
4.3 Method . . . . .	10
4.4 Evaluation Measures . . . . .	10
<b>5 Results and Evaluation</b>	<b>11</b>
<b>6 Conclusions</b>	<b>12</b>
6.1 Achievements . . . . .	12
6.2 Recommendations . . . . .	12

6.3 Future Work . . . . .	12
<b>A Pattern-Description Template</b>	<b>14</b>
<b>B Navigational Data Model</b>	<b>15</b>

## **List of Tables**

# List of Figures

# **Chapter 1**

## **Introduction**

### **1.1 Problem Statement**

### **1.2 Scope**

Say what the scope of the project is.

### **1.3 Outcomes/Objectives**

What is expected at the end of the project?

### **1.4 Methodology**

Approach followed and decisions made on how to do the project

# **Chapter 2**

## **Background and Review of Literature**

### **2.1 Related Work**

Review of previous work related to the project

# **Chapter 3**

## **Analysis and Design**

### **3.1 Analysis**

Documentation of the analysis or specification...

### **3.2 Design**

#### **3.2.1 Problem Statement**

#### **3.2.2 Requirement Analysis**

#### **3.2.3 Use cases**

#### **3.2.4 Design Diagrams**

# **Chapter 4**

## **Implementation**

How the design was implemented...

**4.1 Hw and Sw Requirements**

**4.2 Data Details**

**4.3 Method**

**4.4 Evaluation Measures**

# **Chapter 5**

## **Results and Evaluation**

Description of the results followed by their review...

# **Chapter 6**

## **Conclusions**

A summary of the project as a whole. Lesson learned...

### **6.1 Achievements**

### **6.2 Recommendations**

### **6.3 Future Work**

# Bibliography

## **Appendix A**

### **Pattern-Description Template**

# **Appendix B**

## **Navigational Data Model**