Final Year Project Report Title Title of Degree

*(Binding Page)*

Session 2024-2025 (Change as per your session)



Submitted By

Name of Student 1 Student’s Registration Number Name of Student 2 Student’s Registration Number Name of Student 3 Student’s Registration Number

Supervised By Name of Supervisor

Supervisor’s Designation

DEPARTMENT OF COMPUTER SCIENCE

CECOS University of IT and Emerging Sciences Hayatabad Peshawar

Month Year

Final Year Project Report Title

*(Inside First page)*

Submitted By

#### Name of Student 1 Student Registration Number

Name of Student 2 Student Registration Number

#### Name of Student 3 Student Registration Number

A Final Year Project Report submitted in partial fulfillment of the requirements for the degree of

#### B.S (Title of Degree)

Final Year Project Report Supervisor:

#### Supervisor Name Designation & Department

Supervisor Signature:

DEPARTMENT OF COMPUTER SCIENCE

CECOS University of IT and Emerging Sciences Hayatabad Peshawar

Month Year

#### ABSTRACT

Write abstract from here. The font of the entire document is Times New Roman size 12, regular, justified except headings. The length of the abstract should not exceed 1 page at maximum.

Keywords:

#### UNDERTAKING

Use the following undertaking as it is.

I certify that research work titled “*enter title of your research proposal here*” is my own work. The work has not been presented elsewhere for assessment. Where material has been used from other sources it has been properly acknowledged / referred.

|  |  |  |
| --- | --- | --- |
| Name of Student 1 | Registration Number | Signature of Student |
| Name of Student 2 | Registration Number | Signature of Student |
| Name of Student 3 | Registration Number | Signature of Student |

#### ACKNOWLEDGEMENTS

*Write acknowledgment here. Use Times New Roman 12, Italic, justified.*

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# Chapter 1

# Introduction

**Chapter 1:** Introduction

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[*Between 4 to 8 lines describe what is this chapter all about*]

## Background

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## Motivations and Challenges

[Paragraph Text 12 pt, Calibri, 1.5 Line Spacing, Justified]

## Goals and Objectives

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## Literature Review/Existing Solutions

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## Gap Analysis

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## Proposed Solution

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## Project Plan

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## Work Breakdown Structure

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## Roles & Responsibility Matrix

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## Gantt Chart

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## Report Outline

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## Empathy Map

# Chapter 2

# Software Requirement Specifications

**Chapter 2:** Software Requirement Specifications

1.

## Introduction

## Purpose

<Identify the product whose software requirements are specified in this document, including the revision or release number. Describe the scope of the product that is covered by this SRS, particularly if this SRS describes only part of the system or a single subsystem.>

##

## Document Conventions

<Describe any standards or typographical conventions that were followed when writing this SRS, such as fonts or highlighting that have special significance. For example, state whether priorities for higher-level requirements are assumed to be inherited by detailed requirements, or whether every requirement statement is to have its own priority.>

##

## Intended Audience and Reading Suggestions

<Describe the different types of reader that the document is intended for, such as developers, project managers, marketing staff, users, testers, and documentation writers. Describe what the rest of this SRS contains and how it is organized. Suggest a sequence for reading the document, beginning with the overview sections and proceeding through the sections that are most pertinent to each reader type.>

## Product Scope

<Provide a short description of the software being specified and its purpose, including relevant benefits, objectives, and goals. Relate the software to corporate goals or business strategies. If a separate vision and scope document is available, refer to it rather than duplicating its contents here.>

## References

<List any other documents or Web addresses to which this SRS refers. These may include user interface style guides, contracts, standards, system requirements specifications, use case documents, or a vision and scope document. Provide enough information so that the reader could access a copy of each reference, including title, author, version number, date, and source or location.>

## Overall Description

## Product Perspective

<Describe the context and origin of the product being specified in this SRS. For example, state whether this product is a follow-on member of a product family, a replacement for certain existing systems, or a new, self-contained product. If the SRS defines a component of a larger system, relate the requirements of the larger system to the functionality of this software and identify interfaces between the two. A simple diagram that shows the major components of the overall system, subsystem interconnections, and external interfaces can be helpful.>

## Product Functions

<Summarize the major functions the product must perform or must let the user perform. Details will be provided in Section 3, so only a high level summary (such as a bullet list) is needed here. Organize the functions to make them understandable to any reader of the SRS. A picture of the major groups of related requirements and how they relate, such as a top level data flow diagram or object class diagram, is often effective.>

## User Classes and Characteristics

<Identify the various user classes that you anticipate will use this product. User classes may be differentiated based on frequency of use, subset of product functions used, technical expertise, security or privilege levels, educational level, or experience. Describe the pertinent characteristics of each user class. Certain requirements may pertain only to certain user classes. Distinguish the most important user classes for this product from those who are less important to satisfy.>

## Operating Environment

<Describe the environment in which the software will operate, including the hardware platform, operating system and versions, and any other software components or applications with which it must peacefully coexist.>

## Design and Implementation Constraints

<Describe any items or issues that will limit the options available to the developers. These might include: corporate or regulatory policies; hardware limitations (timing requirements, memory requirements); interfaces to other applications; specific technologies, tools, and databases to be used; parallel operations; language requirements; communications protocols; security considerations; design conventions or programming standards (for example, if the customer’s organization will be responsible for maintaining the delivered software).>

## User Documentation

<List the user documentation components (such as user manuals, on-line help, and tutorials) that will be delivered along with the software. Identify any known user documentation delivery formats or standards.>

## Assumptions and Dependencies

<List any assumed factors (as opposed to known facts) that could affect the requirements stated in the SRS. These could include third-party or commercial components that you plan to use, issues around the development or operating environment, or constraints. The project could be affected if these assumptions are incorrect, are not shared, or change. Also identify any dependencies the project has on external factors, such as software components that you intend to reuse from another project, unless they are already documented elsewhere (for example, in the vision and scope document or the project plan).>

## External Interface Requirements

##

## User Interfaces

<Describe the logical characteristics of each interface between the software product and the users. This may include sample screen images, any GUI standards or product family style guides that are to be followed, screen layout constraints, standard buttons and functions (e.g., help) that will appear on every screen, keyboard shortcuts, error message display standards, and so on. Define the software components for which a user interface is needed. Details of the user interface design should be documented in a separate user interface specification.>

##

## Hardware Interfaces

<Describe the logical and physical characteristics of each interface between the software product and the hardware components of the system. This may include the supported device types, the nature of the data and control interactions between the software and the hardware, and communication protocols to be used.>

## Software Interfaces

<Describe the connections between this product and other specific software components (name and version), including databases, operating systems, tools, libraries, and integrated commercial components. Identify the data items or messages coming into the system and going out and describe the purpose of each. Describe the services needed and the nature of communications. Refer to documents that describe detailed application programming interface protocols. Identify data that will be shared across software components. If the data sharing mechanism must be implemented in a specific way (for example, use of a global data area in a multitasking operating system), specify this as an implementation constraint.>

## Communications Interfaces

<Describe the requirements associated with any communications functions required by this product, including e-mail, web browser, network server communications protocols, electronic forms, and so on. Define any pertinent message formatting. Identify any communication standards that will be used, such as FTP or HTTP. Specify any communication security or encryption issues, data transfer rates, and synchronization mechanisms.>

## System Features

<This template illustrates organizing the functional requirements for the product by system features, the major services provided by the product. You may prefer to organize this section by use case, mode of operation, user class, object class, functional hierarchy, or combinations of these, whatever makes the most logical sense for your product.>

## System Feature 1

<Don’t really say “System Feature 1.” State the feature name in just a few words.>

## Description and Priority

<Provide a short description of the feature and indicate whether it is of High, Medium, or Low priority. You could also include specific priority component ratings, such as benefit, penalty, cost, and risk (each rated on a relative scale from a low of 1 to a high of 9).>

## Stimulus/Response Sequences

<List the sequences of user actions and system responses that stimulate the behavior defined for this feature. These will correspond to the dialog elements associated with use cases.>

## Functional Requirements

<Itemize the detailed functional requirements associated with this feature. These are the software capabilities that must be present in order for the user to carry out the services provided by the feature, or to execute the use case. Include how the product should respond to anticipated error conditions or invalid inputs. Requirements should be concise, complete, unambiguous, verifiable, and necessary. Use “TBD” as a placeholder to indicate when necessary information is not yet available.>

<Each requirement should be uniquely identified with a sequence number or a meaningful tag of some kind.>

REQ-SF1-1: <Write your requirement here>

REQ-SF1-2:

REQ-SF1-3:

## System Feature 2

<Don’t really say “System Feature 1.” State the feature name in just a few words.>

## Description and Priority

<Provide a short description of the feature and indicate whether it is of High, Medium, or Low priority. You could also include specific priority component ratings, such as benefit, penalty, cost, and risk (each rated on a relative scale from a low of 1 to a high of 9).>

## Stimulus/Response Sequences

<List the sequences of user actions and system responses that stimulate the behavior defined for this feature. These will correspond to the dialog elements associated with use cases.>

## Functional Requirements

<Itemize the detailed functional requirements associated with this feature. These are the software capabilities that must be present in order for the user to carry out the services provided by the feature, or to execute the use case. Include how the product should respond to anticipated error conditions or invalid inputs. Requirements should be concise, complete, unambiguous, verifiable, and necessary. Use “TBD” as a placeholder to indicate when necessary information is not yet available.>

<Each requirement should be uniquely identified with a sequence number or a meaningful tag of some kind.>

REQ-SF2-1:

REQ-SF2-2:

REQ-SF2-3:

## System Feature 3 (and so on)

## Other Nonfunctional Requirements

## Performance Requirements

<If there are performance requirements for the product under various circumstances, state them here and explain their rationale, to help the developers understand the intent and make suitable design choices. Specify the timing relationships for real time systems. Make such requirements as specific as possible. You may need to state performance requirements for individual functional requirements or features.>

## Safety Requirements

<Specify those requirements that are concerned with possible loss, damage, or harm that could result from the use of the product. Define any safeguards or actions that must be taken, as well as actions that must be prevented. Refer to any external policies or regulations that state safety issues that affect the product’s design or use. Define any safety certifications that must be satisfied.>

## Security Requirements

<Specify any requirements regarding security or privacy issues surrounding use of the product or protection of the data used or created by the product. Define any user identity authentication requirements. Refer to any external policies or regulations containing security issues that affect the product. Define any security or privacy certifications that must be satisfied.>

## Software Quality Attributes

<Specify any additional quality characteristics for the product that will be important to either the customers or the developers. Some to consider are: adaptability, availability, correctness, flexibility, interoperability, maintainability, portability, reliability, reusability, robustness, testability, and usability. Write these to be specific, quantitative, and verifiable when possible. At the least, clarify the relative preferences for various attributes, such as ease of use over ease of learning.>

## Business Rules

<List any operating principles about the product, such as which individuals or roles can perform which functions under specific circumstances. These are not functional requirements in themselves, but they may imply certain functional requirements to enforce the rules.>

## Other Requirements

<Define any other requirements not covered elsewhere in the SRS. This might include database requirements, internationalization requirements, legal requirements, reuse objectives for the project, and so on. Add any new sections that are pertinent to the project.>

#

# Chapter 3

# Use Case Analysis

**Chapter 3:** System Analysis

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[*Between 4 to 8 lines describe what is this chapter all about*]

## Use Case Model

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## Use Case Descriptions

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# Chapter 4

# System Design

**Chapter 4:** System Design

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## Architecture Diagram

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## Domain Model

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## Entity Relationship Diagram with data dictionary

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## Class Diagram

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## Sequence / Collaboration Diagram

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## Operation contracts

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## Activity Diagram

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## State Transition Diagram

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## Component Diagram

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## Deployment Diagram

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## Data Flow diagram [*only if structured approach is used - Level 0 and 1*]

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# Chapter 5

# Implementation

**Chapter 5:** Implementation

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## Important Flow Control/Pseudo codes

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## Components, Libraries, Web Services and stubs

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## Deployment Environment

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## Tools and Techniques

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## Best Practices / Coding Standards

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## Version Control

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# Chapter 6

# Testing and Evaluation

**Chapter 6:** Testing and Evaluation

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[*Between 4 to 8 lines describe what is this chapter all about*]

## Use Case Testing

## Equivalence partitioning

## Boundary value analysis

## Data flow testing

## Unit testing

## Integration testing

## Performance testing

## Stress Testing

#

# Chapter 7

# Summary, Conclusion and Future Enhancements

**Chapter 7:** Summary, Conclusion & Future Enhancements

## Project Summary

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## Achievements and Improvements

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## Critical Review

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## Lessons Learnt

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## Future Enhancements/Recommendations

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# Appendices

# Appendix A: User Manual

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[*Between 4 to 8 lines describe what is this appendix all about*]

**Appendix A:** Appendix Title

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* + - 1. **Third level heading [12 pt, Calibri, Bold, Left aligned]**

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# Appendix B: Administrator Manual

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[*Between 4 to 8 lines describe what is this appendix all about*]

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* + - 1. **Third level heading [12 pt, Calibri, Bold, Left aligned]**

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# Appendix C: Information / Promotional Material

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[*Between 4 to 8 lines describe what is this appendix all about*]

* 1. **Broacher**

* 1. **Flyer**
	2. **Standee**
	3. **Banner**
	4. **First Level heading [16 pt, Calibri, Bold, Left aligned]**

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# Appendix [no.]: Appendix Title

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* + 1. **Second level heading [14 pt, Calibri, Bold, Left aligned]**

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* + - 1. **Third level heading [12 pt, Calibri, Bold, Left aligned]**

[Paragraph Text 12 pt, Calibri, 1.5 Line Spacing, Justified]

# Reference and Bibliography

**Reference and Bibliography**

[1] M. Sher, M. Rehman, “*Title of the Paper*” Conference name/Journal Name, Edition, Volume, Issue, ISBN/ISSN, PP, Publisher/City-Country, Year.

[2] ……

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