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| Ex No: 11 | **SOFTWARE REQUIREMENTS SPECIFICATION**  A Prototype model - Develop the prototype SRS of the product |
| Date : 18/10/2021 |
| Video Link: |  |

**OBJECTIVE**

The objective of the experiment is to generate a detailed SRS for the project ---------------------

1. **ARRANGEMENT OF CONTENTS**

The sequence in which the project report material should be arranged and bound is as follows:

* 1. Cover Page

1. First Page-same as cover page
2. Table of Contents
3. Chapter 1 – Introduction
4. Chapter 2 – Overall Description
5. Chapter 3 – Specific Requirements
6. Chapter 4 – Technologies used
7. Chapter 5 – Limitation of the project

**2. SRS SPECIFICATIONS**

* The dimension of the pages should be A4 size.
* Total number of pages for the SRS should be **minimum 40 pages** and should not exceed 50 pages including first page and table of contents page

**3. PREPARATION FORMAT**

* **Cover Page and First Page**- A specimen copy of the “Cover page” and “Title page” is included at page no.4
* **Table of Contents -**A specimen copy of the “Table of Contents” is included at page no.5 and 6
* **Sections –**The SRS may be broadly divided into 5 sections.

**1. Introduction**

* 1. Purpose – should mention the objective of the project
  2. Scope – should describe the scope of the project
  3. Definitions, Acronyms, and Abbreviations – should provide a very brief explanation of the abbreviations and acronyms used
  4. References – should specify the references taken (includes book, web references)
  5. Technologies to be used – should specify the technologies to be used (computer languages, IDEs, or any other specific tool)
  6. Overview – should describe the sections of the SRS

**2. Overall Description**

2.1 Product Perspective – should mention the interactions

2.2 Software Interface – should specify the front end and back end of the system

2.3 Hardware Interface – should specify the client and server requirements

2.4 Product Functionalities – should specify the functionalities of the system

2.5 User Characteristics – the characteristics of the user should be mentioned

2.6 Constraints – the constraints of the system should be mentioned

2.7 Architecture Diagram – the interaction between the components/modules should be shown

2.8 Use Case Model Description – use case diagram should be drawn

2.9 Class Diagram – class diagram should be drawn (starUML)

2.9.1 Sequence Diagrams – sequence diagrams should be drawn

2.10 Database Design – ER and Database schema diagrams should be drawn (starUML)

2.10.1 ER Diagram

2.10.2 Schema

2.11 Assumptions and Dependencies – should specify the assumptions made

**3. Specific Requirements**

3.1 Use Case Reports – should specify the functionalities of the users

3.2 Supplementary Requirements – specify the non-functional requirements

**4. Technologies used**

4.1 Explanation of computer languages used

4.2 Explanation of IDEs with its features, plug-ins, etc.,

4.3 Explanation of APIs/Frameworks

4.4 Explanation of developer’s documentation on how to use the tools

**5. Limitation of the project**

**SRS PREPARATION GUIDELINES**

* Tables and figures in a chapter should be placed in the immediate vicinity of the reference where they are cited.
* Figures should have captions and should be numbered. Eg. Fig 5.8 Variation of speed with load (font size-10,title case).
* Figures, Equations, Tables to be continuously numbered within a chapter eg. Fig 2.1, Fig 2.2…../Table 2.1, Table 2.2…..
* For Figures, graphs, charts, flow diagrams etc., captions should be at the bottom.
* For tables, captions should be above the tabular column.
* Tables and figures should confirm to the margin specifications. Large size figures should be reduced to the appropriate size before insertion.
* MS Word Times New Roman font, size 12 for body of text; size 13 for sub section titles and bold & CAPS, for sub sections of sub sections, font size is 13, Title Case; size 10 for table heading and figures and captions (title case).
* For chapter title, font size as 14 and bold & CAPS and font Times New Roman.
* Enough matter (text, figures etc.) should be there in a page; avoid white spaces.
* All pages should be numbered continuously; printed at bottom and center of each pages starting from chapter 1
* Exactly 1.5 line spacing.
* Margin: Left=1¼” (1.25),Right= ¾” (0.75),top=1”, bottom=1”.
* Subscripts and superscripts should be properly printed.
* Reference in body to be given with square bracket. **Eg:** Visual cryptography is a new technique which provides information security which uses simple algorithm unlike the complex, computationally intensive algorithms. [25]

**RESULT:**

A software requirement specification for modelling a prototype of ------------------ was carried out successfully.

**TITLE OF PROJECT**

**SOFTWARE REQUIREMENT SPECIFICATION**

**[BATCH NO: 00]**

Submitted by:

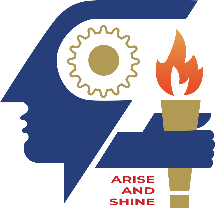
**ABC DEF - Reg. No. UR20CSXXXX**

In partial fulfillment of the requirements for the

Software Engineering

Under the guidance of

**Mr. XYZ**



**KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES**

**Declared as Deemed to be University under sec.3 of the UGC Act, 1956**

**Karunya Nagar, Coimbatore -641 114**

**OCTOBER 2021**

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