P P SAVANI UNIVERSITY
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TUTORIAL - 7

ON

SOFTWARE ENGINEERING(SSCS3010)

TITLE: Elements in Software Requirements Specification (SRS) Document.

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY (BSC-IT)

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Aim: Elements in Software Requirements Specification (SRS) Document.

What is SRS?

An SRS (Software Requirements Specification) is a formal document that describes:

- What the software will do (functionalities)
- How it will perform (performance, reliability)
- Any constraints or assumptions

📑 Main Elements of an SRS Document

Below are the standard **IEEE-recommended sections** in an SRS document:

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1. Introduction

- **Purpose**: Why this software is being developed.
- **Scope**: What the software will and will not do.
- **Definitions**: Technical terms, acronyms.
- **References**: Any documents referred to.
- **Overview**: Summary of the rest of the SRS.

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2. Overall Description

- **Product perspective**: How the software fits into the system.
- **Product functions**: High-level features.
- **User characteristics**: Expected users (e.g., admin, customers).
- **Constraints**: Hardware, language, legal issues, etc.
- **Assumptions and dependencies**: Things taken for granted.

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3. Specific Requirements

- **Functional requirements**: What the software should do (detailed).
- **Non-functional requirements**: Performance, security, usability.
- **Interface requirements**:
  - User interfaces
  - Hardware interfaces
  - Software interfaces
  - Communication interfaces
- **System features**: Prioritized features with descriptions.

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4. Appendices

- Supporting info (diagrams, data formats, etc.)

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5. Index

- For quick reference (optional but helpful).

SRS for a Resume Builder System for Freshers

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1. Introduction

- **Purpose:**
  To develop an online Resume Builder system targeted at fresh graduates and college students to help them create professional resumes using pre-defined templates and automated formatting.
- **Scope:**
  The system will allow users to register, enter personal/educational details, choose templates, preview, and download resumes in PDF format. Payment integration and job application tracking are not included.
- **Definitions:**
  - *CV*: Curriculum Vitae
  - *PDF*: Portable Document Format
  - *Template*: A predefined resume layout
- **References:**
  - IEEE SRS Template
  - W3C HTML/CSS Standards

- **Overview:**
  This document outlines all functional, non-functional, interface, and system-level requirements for the Resume Builder application.

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2. Overall Description

- **Product Perspective:**
  A standalone web application, accessible via desktop and mobile browsers.
- **Product Functions:**
  - Register/Login
  - Fill/Edit resume details (e.g., personal info, skills, education)
  - Choose from multiple templates
  - Download resume as PDF
- **User Characteristics:**
  - Freshers with little or no resume-writing experience.
  - Users are expected to have basic internet and typing skills.
- **Constraints:**
  - Requires a modern web browser.
  - No offline editing or saving.
- **Assumptions:**
  - Users have reliable internet access.
  - Users can input correct personal and academic information.

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3. Specific Requirements
Functional Requirements:

- FR1: Users can register and log in securely.
- FR2: Users can enter and update personal, academic, and project details.
- FR3: Users can choose from at least 5 resume templates.
- FR4: Users can preview the resume before downloading.
- FR5: Users can download their resume in PDF format.
- FR6: Admin can add or update resume templates.

Non-Functional Requirements:

- NFR1: System response time should not exceed 3 seconds per action.
- NFR2: Resume generation and download must complete in under 10 seconds.
- NFR3: System must be available 24/7 with 99.5% uptime.
- NFR4: User data must be securely stored and accessed using HTTPS.

Interface Requirements:

- UI: Responsive web UI compatible with Chrome, Firefox, Safari.
- Hardware: Web server with minimum 4-core CPU, 8GB RAM, and 50GB SSD.
- Software: LAMP/MEAN stack; Must support PDF generation libraries (e.g., jsPDF).
- Communication: Hosted over HTTPS; Email confirmation via SMTP.

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4. Appendix

- **Sample Resume Templates**
  - Template 1: Minimalist
  - Template 2: Modern
  - Template 3: Academic
  - Template 4: Creative
  - Template 5: Professional
- **Database Schema (Basic)**
  - Users(id, name, email, password_hash)
  - ResumeDetails(user_id, education, skills, projects, experience)
  - Templates(template_id, name, file_path)
- **UI Mockups**
  - Registration/Login Screen
  - Resume Builder Form
  - Preview and Download Page

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5. Index

- **[User Registration - Page 4]**
- **[Resume Editing - Page 5]**
- **[Template Selection - Page 6]**
- **[Resume Download - Page 7]**
- **[Admin Management - Page 8]**