

Software Requirements Specification (SRS)

Project Name: Resume Leak Scanner

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1. Introduction

1.1 Purpose

The **Resume Leak Scanner** is like a personal safety check for your resume. Before you put your information out there online, it looks for sensitive details like your phone number, email, home address, or ID numbers that could put you at risk. It then gives your resume a safety score and offers easy, practical tips to keep your personal info secure. In short, it helps protect you from things like identity theft, phishing scams, or unwanted attention, so you can share your resume with confidence.

1.2 Document Conventions

- We describe what the system should do using simple statements that start with “**The system shall ...**” so it’s clear and easy to follow.
- We also look at how the system should perform, stay secure, be easy to use, and stay reliable these are grouped under performance, security, usability, and reliability.
- We keep technical terms to a minimum so that anyone can understand what’s expected without getting lost in jargon.

1.3 Intended Audience and Reading Suggestions

- **Developers:** Use this document as your main guide when putting the system into action.
- **Testers:** Check to make sure that both the system’s features (functional requirements) and qualities like performance, security, and usability (non-functional requirements) are properly met.
- **Supervisors:** Review the project to make sure its goals are clear, the work stays within scope, and everything that’s needed has been included.
- **End Users (Job Seekers):** Gain advantages from having a clear and simple explanation of the system, even if you’re not directly involved.

1.4 Product Scope

The **Resume Leak Scanner** is an easy-to-use web platform where you can upload your resume in PDF or DOCX format. It scans your resume, picks out personal information, gives your resume a risk score, and offers practical tips to keep your data safe. By helping you avoid accidentally sharing sensitive details, this tool makes job hunting safer and gives you peace of mind online.

1.5 References

- Caulfield, J. (2020) 'In-Text Citation Guide & Examples'. Scribbr. Available at: <https://www.scribbr.co.uk/referencing/harvard-in-text-citation/>
- Caulfield, J. (2023) 'Quick Guide to Referencing'. Scribbr. Available at: <https://www.scribbr.co.uk/referencing/harvard-style/>.
- Imperial College London. (2023) 'Citing and Referencing Guide'. Available at: <https://www.imperial.ac.uk/media/imperial-college/administration-and-support-services/library/public/Harvard-guide.pdf>.

2. Overall Description

2.1 Product Perspective

The Resume Leak Scanner is a **standalone web application** with:

- **Frontend (React/HTML):** Share your resume and instantly see a clear picture of your results.
- **Backend (Node.js/Express):** Handles file uploads, text parsing, detection, and scoring.
- **Detection Engine:** Automatically identifying sensitive data with intelligent pattern matching.
- **Advisory Module:** Suggests ways to protect your personal information.

2.2 Product Features

- Simply upload your resume (PDF or DOCX).
- We'll pull out and tidy up all your text automatically.
- Quickly spot any sensitive information in your resume.
- See an instant risk score for your personal data.
- Get easy-to-follow tips to protect or hide your private info.
- Check your results in a clear and friendly dashboard.

2.3 User Classes and Characteristics

- **Primary Users (Job Seekers):** Non-technical individuals requiring data protection.
- **Secondary Users (Project Team):** Developers, testers, and evaluators with technical expertise.

2.4 Operating Environment

- **Frontend:** Chrome, Firefox, and Edge browsers.
- **Backend:** Node.js v18+, Express.
- **Supported OS:** Windows, macOS, Linux.
- **File Size Limit:** ≤ 5 MB per resume.

2.5 Design and Implementation Constraints

- Your resume stays with you— we don't store it, so your privacy is safe.
- Supports only PDF and DOCX resume formats.
- Runs smoothly on any regular computer.

2.6 User Documentation

- Quick-start deployment guide.
- User manual with screenshots.
- Inline tooltips for first-time users.

2.7 Assumptions and Dependencies

- Resumes will contain identifiable patterns for contact information.
- Third-party libraries for text extraction will function reliably.
- Internet connectivity will be available for web-based deployment.

3. System Requirements

3.1 Functional Requirements

ID	Requirement Description
FR-1	Users can easily upload their resumes in PDF or DOCX format, with a file size limit of 5 MB.

FR-2	The system automatically pulls text from PDF and DOCX resumes and cleans it up for easy pattern detection.
FR-3	The system identifies phone numbers, emails, home addresses, and ID numbers, keeping track of the type and how many are found.
FR-4	The system calculates a risk score based on the detected data and labels it as Low, Medium, or High
FR-5	The system offers tips on removing sensitive data and suggests best practices for sharing your resume safely
FR-6	The system shows your results clearly, including detected data, risk score, and advice, and lets you re-upload a revised resume for another check, along with tips for sharing it safely.

3.2 Non-Functional Requirements

Performance Requirements: The system quickly processes and shows results within 5 seconds for a 5 MB resume and can handle at least 50 users at the same time without slowing down

Security Requirements: The system keeps your uploads private by not storing resumes, ensures secure communication via HTTPS, and safely handles files to prevent any malicious content.

Usability Requirements: The system offers a clean, simple interface for everyone, with helpful tooltips and error messages, and works smoothly on both desktop and mobile browsers

Reliability Requirements: The system stays up over 95% of the time, recovers smoothly from failed uploads, and logs errors for troubleshooting all without storing your resumes

4. External Interface Requirements

4.1 User Interfaces

- **Upload Page:** Easily drag and drop your resume or browse your files to upload.
- **Results Page:** See detected information, your risk score, and helpful suggestions all in one place.
- **Navigation:** A simple, two-step flow just upload, then view results.

4.2 Hardware Interfaces

- Standard consumer-grade PC or laptop with internet access.

- No specialized hardware required.

4.3 Software Interfaces

- **Backend:** Built with Node.js and Express for smooth and efficient performance.
- **Libraries:** Uses pdf-parse and docx-parser to pull text from resumes easily.
- **Detection:** Smart pattern recognition powered by JavaScript regular expressions.

4.4 Communications Interfaces

- Communication over HTTP/HTTPS.
- JSON response format between backend and frontend.

5. Member Contributions to the SRS

- **Tejasri:** Drafted **Introduction** and **Overall Description** sections.
- **Joshitha:** Drafted the System **Requirements (Functional + Non-Functional)** section.
- **Shruthi:** Drafted **external interface requirements** and compiled **final integration of the SRS**.