

1. Introduction

1.1 Purpose

The purpose of CVverse is to provide job seekers with an AI-powered platform to track job applications, generate and version CVs, create cover letters, receive interview preparation guidance, and obtain actionable analytics including a year-end wrap.

1.2 Scope

CVverse will allow users to:

- Register and authenticate securely
- Create and maintain a base CV
- Create job applications and update status manually
- Generate AI-assisted CV reviews (freemium model)
- Generate job-specific CVs and cover letters (Pro)
- Track multiple versions of CVs per job
- Receive interview prep recommendations
- Access analytics and year-end career wrap

1.3 Definitions, Acronyms, and Abbreviations

- AI: Artificial Intelligence
- CV: Curriculum Vitae
- SRS: Software Requirements Specification
- Pro: Premium plan
- MVP: Minimum Viable Product

1.4 References

- Laravel Documentation: <https://laravel.com/docs>
- Vue.js Documentation: <https://vuejs.org/>
- Inertia.js: <https://inertiajs.com/>
- Wayfinder for Laravel: <https://github.com/wayfinder>

1.5 Overview

This SRS defines the functional and non-functional requirements, system architecture, ER diagram, and specifications for CVverse.

2. Overall Description

2.1 Product Perspective

CVverse is a web-based SPA using Laravel backend, Vue frontend with Inertia.js and Wayfinder for typed routes.

2.2 Product Functions

- Authentication
- CV Management
- Job Application Tracking
- CV Versioning
- AI CV Review
- Cover Letter Generation
- Interview Preparation
- Analytics and Insights
- Year-End Wrap

2.3 User Classes and Characteristics

- Free Users: limited AI CV reviews per month, basic analytics, manual job tracking
- Pro Users: unlimited AI usage, cover letters, interview prep, advanced analytics, full year wrap

2.4 Operating Environment

- Web browsers (Chrome, Firefox, Edge)
- Responsive design for mobile
- Server: PHP 8+, MySQL/PostgreSQL, Laravel 10+

2.5 Constraints

- AI usage limits for free users
- Manual status updates required

2.6 Assumptions and Dependencies

- Users will input job applications manually
 - AI service (OpenAI/Gemini) availability
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3. Specific Requirements

3.1 Functional Requirements

ID	Requirement	Description
FR1	User Authentication	Register, login, password reset, email verification
FR2	Base CV	Users can create, edit, and save a base CV
FR3	Job Application	Create job applications with company, role, description, location, status, notes
FR4	CV Versioning	Multiple CV versions per job, view, switch, delete versions
FR5	AI CV Review	Limited AI reviews for free users; Pro unlimited, including job-specific optimization
FR6	Cover Letter	Generate AI cover letter per job (Pro), editable by user
FR7	Interview Prep	AI-generated questions, answers, focus areas per application (Pro)
FR8	Analytics	Dashboard with applications stats, acceptance rate, interview rate, trends
FR9	Recommendation Engine	Suggest CV improvements, focus areas based on outcomes
FR10	Year-End Wrap	Summary of applications, accepted/rejected/no-response, best CV version, AI narrative

3.2 Non-Functional Requirements

- Performance: <2s page load, async AI operations
- Security: data isolation, authorization policies, rate limits
- Scalability: background jobs for AI & analytics, caching
- Reliability: daily backups, failover for AI jobs

3.3 External Interfaces

- AI Service: REST API integration
- Email: SMTP for verification, notifications
- PDF Generation: DomPDF or similar service

4. System Architecture

- Frontend: Vue 3 + Inertia + Wayfinder

- Backend: Laravel (Controllers → Services → Domain)
- Database: MySQL/PostgreSQL
- AI: abstracted service layer
- Queues: Redis or DB-based for async AI calls
- Scheduler: Laravel scheduler for periodic tasks

5. Entity-Relationship Diagram (ERD)

Users		JobApplications	
id		id	
email		user_id	
plan		company	
password		role	
created_at		description	
		status	
		notes	
		created_at	

JobApplications 1-----N CVVersions

JobApplications		CVVersions	
id		id	
user_id		job_application_id	
...		content_json	
		source	
		created_at	

JobApplications 1-----1 CoverLetters

JobApplications		CoverLetters	
		content	
		created_at	

JobApplications 1-----1 InterviewPreps

JobApplications		InterviewPreps	
		content_json	
		created_at	

Users 1-----N AIUsages

Users		AIUsages	
id		id	

...	user_id
+-----+	month
	used
	limit
	+-----+

6. Development Roadmap

Phase 1 – Foundation

- Auth, Base CV, Job Applications, Manual CV Versioning

Phase 2 – AI Integration

- AI CV review, Cover letters, Interview prep

Phase 3 – Insights & Wrap

- Analytics dashboard, recommendations, Year-End wrap

Phase 4 – Optimization

- Performance, caching, notifications, UI polish

7. References

- Laravel 12 Documentation: <https://laravel.com/docs/12.x>
- Vue 3 Documentation: <https://vuejs.org/>
- Inertia.js Documentation: <https://inertiajs.com/>
- Wayfinder for Laravel: <https://github.com/wayfinder>
- AI Providers: OpenAI, Gemini

End of SRS & ERD for CVverse