Software Requirement Specification

The software requirement specification is produced at the culmination of the analysis task. The function and performance allocated to software as a part of system engineering are refined by establishing a complete information description, a detailed functional and behavioral description, an indication of performance requirements and design constraints, appropriate validation criteria, and other data pertinent to requirements.

The proposed system has the following requirements:

- System need to maintain quantity record.

- System needs to store information about new entry of college.

- System need to update and delete record.

- It also needs a security system to prevent data loss or theft.

- System needs to help the internal staff to keep information about college and find it as per various queries.

- System needs to keep record of all data of college.

- System needs Search optimization.

Software Required:

Components	Minimum Requirements (Deployment Server)
Operating Systems	Linux Server / Windows Server
Other software	Node, Node Package Manager
Web Server	512 MB
Browser	Not Needed

Components	Minimum Requirements (End User PC)
Operating Systems	Any OS which support Internet Browser (Almost All)
Browser	Firefox / Chrome / Firefox Based / Chrome Based

Development Tools

- Integrated Development Environment - Visual Studio Code
- CSS Framework - Tailwind
- Browser - Chrome / Chrome-based
- Framework - Node (Fastify for back-end, React for front-end)
- Database - SQLite3
- Database ORM - Sequelize
- Node Package Managers - npm and yarn
- Hosting Providers - Vercel for fronend, Heroku for backend
- Collaboration System - GitHub