

Software Requirements Specification (SRS)

1. Introduction

Purpose:

The purpose of this project is to develop a dynamic and user-friendly School Website that serves as a central hub for providing up-to-date school information, showcasing events, managing announcements, and highlighting various facilities.

Intended Audience:

- Developers (Frontend, Backend)
- School Administration
- QA/Testers
- Future Maintainers

Scope:

The application allows school admins to post announcements, media files, and events while students/parents can view all school information and activities.

2. Overall Description

Product Perspective:

This web application is built using the MERN stack and designed to be responsive across devices.

Product Functions:

- Admin login
- Post/manage announcements, media, events
- View info on library, labs, smart classes

User Classes:

- Admin (login required)
- Visitors (public access)

Operating Environment:

Software Requirements Specification (SRS)

- React, Node.js, Express, MongoDB
- Modern browsers

Constraints:

- JWT login
- MongoDB schemas
- File uploads with multer

3. Functional Requirements

3.1 Admin Login:

Inputs: Username, Password

Output: JWT token

3.2 Media Upload:

Upload images, save file info to MongoDB

3.3 Announcements:

Post and display announcement messages

3.4 Events:

Post event title, description and image

3.5 Facilities Info:

Static components: Library, Labs, Smart Classes

4. Non-Functional Requirements

Performance:

Fast file uploads, responsive frontend

Usability:

Software Requirements Specification (SRS)

User-friendly for both admin and visitors

Reliability:

Stable DB connection, file handling

Maintainability:

Component-based structure and clean APIs

Security:

JWT authentication, no bcrypt initially

5. Future Scope

- Bcrypt password hashing
- Role-based admin system
- Cloud deployment
- Search functionality