Software Requirements Specification (SRS) Document

**1. Introduction**

**1.1 Purpose**

This document provides a detailed description of the requirements for the **Alumni Portal** of **Gyan Ganga Institute of Technology and Sciences.** The portal aims to connect alumni to facilitate networking between Students and Faculties of the College.

**1.2 Need for the Portal**

* Alumni lose touch after graduation due to a **lack of a centralized platform.**
* There’s **no** **dedicated space** for alumni-student networking or job postings.
* The portal can help improve **college reputation** by showcasing successful alumni.

**1.3 Vision Behind the Portal**

* The portal aims to **strengthen the alumni network** by offering an interactive platform.
* Alumni can **guide students** by sharing career experiences, job openings, and mentorship.
* The system will be **user-friendly, secure, and scalable** for future enhancements.

**1.4 Scope**

The **Alumni Portal** will allow alumni to register, view and post about their job experience, participate in discussions, and stay updated on college events. The system will have **three main user roles**: **Faculty, Alumni, and Students**.

**1.5 Definitions, Acronyms, and Abbreviations**

* **SRS**: Software Requirements Specification
* **Alumni**: Graduates of the college
* **Admin**: System administrator managing the platform

**1.6 References**

* IEEE SRS Standard (IEEE 830-1998)
* College website and existing alumni records

**2. Overall Description**

**2.1 Product Perspective**

The Alumni Portal is a **web-based application** that integrates with existing college databases and social media platforms for seamless networking.

**2.2 Product Functions**

* **User Registration & Authentication**: Secure login for alumni, students, and faculty.
* **Profile Management**: Users can update personal and professional details.
* **Job Board**: Alumni can post and inform about jobs.
* **Event Management**: Admins can post upcoming events and alumni can RSVP.
* **Messaging System**: Users can communicate via messages or forums.

**2.3 User Characteristics**

* **Alumni**: Professionals looking to network, find/form career opportunities.
* **Students**: Current students seeking mentorship or internships.
* **Admin**: Responsible for managing the platform.

**2.4 Constraints**

* Must comply with **data privacy regulations** (GDPR, IT Act 2000).
* Should support **5000+ users** without performance issues.
* Must be accessible on **both mobile and desktop**.

**3. Specific Requirements**

**3.1 Functional Requirements**

* **FR1**: Users must be able to register using email and password.
* **FR2**: Alumni should be able to update their employment details.
* **FR3**: Event notifications should be sent via email.
* **FR4**: Admin should be able to remove inappropriate content.

**3.2 Non-Functional Requirements**

* **Performance**: Page load time should be < 5 seconds.
* **Security**: Use **SSL encryption** for data security.
* **Availability**: The system should have **99.9% uptime**.
* **Scalability**: Should support increasing alumni connections over time.

**4. System Requirements**

**4.1 Hardware Requirements**

* Server: Minimum **8GB RAM, 100GB SSD storage**.
* User Devices: Compatible with **Windows, macOS, Android, iOS**.

**4.2 Software Requirements**

* Frontend: **React.js / Angular**
* Backend: **Node.js / Django**
* Database: **MySQL / MongoDB**
* Hosting: **AWS / Firebase**

**5. Appendix**

**Platform Status Notice:**  
*This platform is still under maintenance and development. We apologize for any inconvenience caused. We regret any issues you may face while using the portal. Our team is constantly working on improvements to enhance your experience.*

**Contact Information**

* **Support Email**: support@alumniportal.com
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**Acknowledgment**

*"We thank our faculty, mentors, and peers for their guidance in developing this portal."*