



BANNARI AMMAN INSTITUTE OF TECHNOLOGY

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SOFTWARE REQUIREMENT SPECIFICATION FOR BIT-LINKEDIN PORTAL

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Seat No: 33

Project ID: 33

Project title: BIT-LinkedIn Portal

Technical Components

Components	Tech Stack
Backend	Node.js
Frontend	React.js
Database	MongoDB
Api	Express.js

1. INTRODUCTION

1.1 PURPOSE

The BIT-LinkedIn Portal is a platform for BIT Sathy students and alumni to connect, search for jobs, and build resumes. Users can create profiles, connect with peers, search and apply for jobs, track mutual connections in companies, and build professional resumes. Additionally, students can access information about placement drives and results through the portal.

1.2 PROJECT SCOPE

- **Secure Login:** Users authenticate using their BIT Sathy mail IDs for security.
- **Messaging Facility:** Students can communicate with each other through a built-in messaging feature.
- **Job Search Platform:** A platform for students to find jobs and internships based on their interests.
- **On-Campus Placement Info:** Access information on BIT Sathy's placement drives and results.
- **Resume Design Tool:** Tools to create professional resumes tailored to career aspirations.

2. OVERALL DESCRIPTION

2.1 PRODUCT PERSPECTIVE

- **User Profiles:** Store essential user details for networking and job searches.
- **Job Listings:** Maintain comprehensive job listings for easy job searching.
- **Messaging System:** Enable seamless communication and networking between users.
- **On-Campus Placement Drives:** Provide information about placement drives for accessing relevant opportunities.
- **Resume Data:** Store user-generated resume information for creating professional resumes.
- **Comments, Posts, and Tags:** Store user-generated content for enriched interactions and content sharing within the portal.

2.2 OPERATING ENVIRONMENT:

- Operating System: Windows
- IDE: Visual Studio Code,
- Version Control: Git
- Programming Languages: HTML, CSS, JavaScript (React.js, Node.js)
- Frameworks: Express.js
- Database: MongoDB

- Package Managers: npm , Yarn
- Web Server: Node.js
- Client/server system

2.3 DESIGN AND IMPLEMENTATION CONSTRAINTS

- **Technology Stack Compatibility:** Built with MongoDB, Express.js, React.js, and Node.js (MERN stack). Choices must align with these technologies.
- **Browser Compatibility:** Frontend should work well on Chrome, Firefox, Safari, and Edge, following web standards.
- **Responsive Design:** Layout should adapt to different devices and screen sizes.
- **Security Considerations:** Prioritize data security with encryption, secure authentication, and protection against vulnerabilities.
- **Scalability and Performance:** Design for handling large user bases and high traffic.
- **Third-Party Integrations:** Consider compatibility, reliability, and dependencies when integrating external services or APIs.

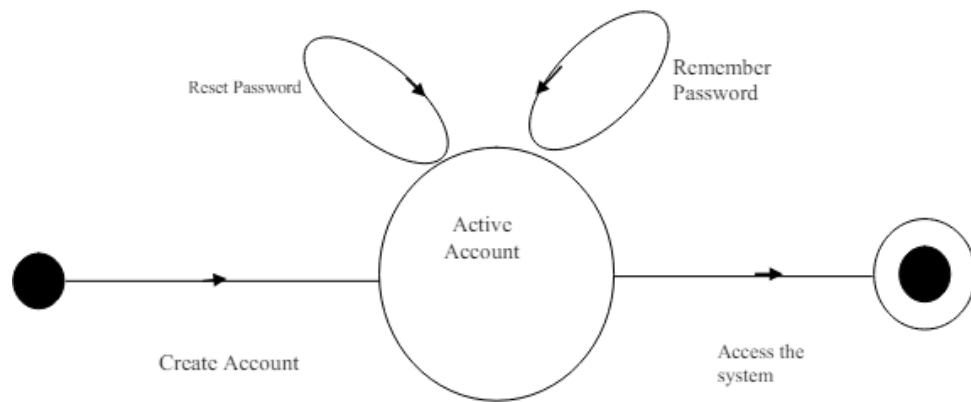
3. EXTERNAL INTEFACE REQUIREMENTS:

- **User Interface:** Web-based interface accessible via standard web browsers.
- **Communication Interface:** Interaction via internet connection and web browsers.
- **Software Interface:** Support for various web clients and browsers.
- **Hardware Interface:** Compatible with operating systems such as Windows, macOS, and Android.

4. FUNCTIONAL REQUIREMENTS:

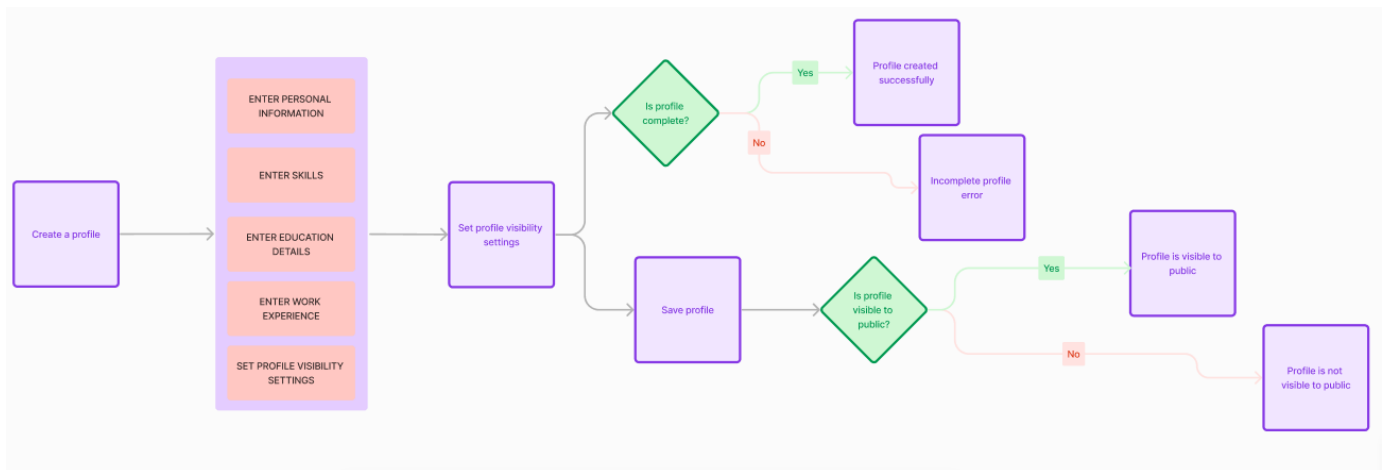
4.1 User Authentication:

- Secure login using BIT Sathy email IDs.
- Integration with BIT Sathy authentication system for user verification.



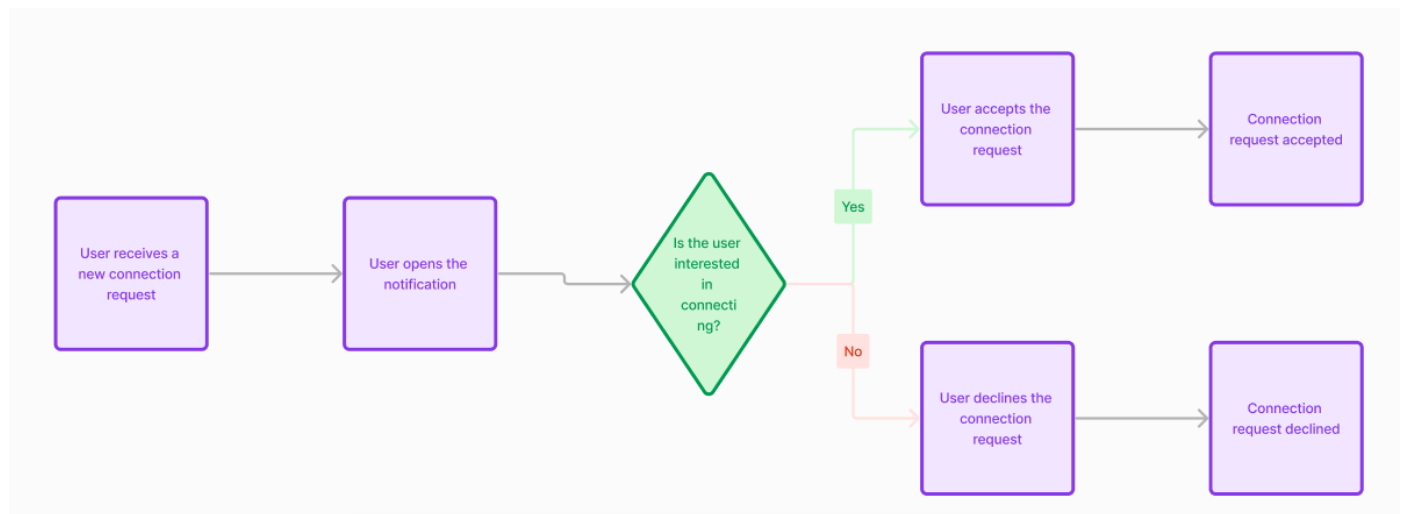
4.2 Profile Creation and Management:

- Users can create and manage their profiles, including personal information, education, skills, and work experience.
- Profile visibility settings to control access to certain information.



4.3 Connection Requests:

- Users can send and accept connection requests to build their professional network.
- Notification system for new connection requests.



4.4 Job Search and Application:

- Users can search for job listings and internships based on criteria such as industry, location, and job title.
- Apply to job listings directly through the platform, with options to upload resumes and cover letters.

4.5 Messaging System:

- Users can communicate with connections through a messaging feature.
- Real-time messaging with notification alerts for new messages.

4.6 Campus Placement Information:

- Display information about on-campus placement drives, including dates, participating companies, and available positions.
- Users can view their placement results and feedback.

4.7 Resume Builder:

- Users can create and edit professional resumes within the platform.
- Resume templates and formatting options available for customization.

4.7 Admin Panel:

- Administrator access to manage user accounts, job listings, and system settings.
- Tools for monitoring user activity and resolving disputes.

4.8 Search and Filtering:

- Users can search for other users, job listings, or campus placements using filters and keywords.
- Relevant search results based on user preferences and criteria.

4.9 Notifications:

- Users receive notifications for new connection requests, messages, job opportunities, and placement updates.
- Customizable notification preferences for each user.

5. ROLES AND RESPONSIBILITIES

5.1 User Role:

- ✓ Create profiles, connect with peers, alumni, and professionals.
- ✓ Search for job and internship opportunities, view job postings, and apply for positions.
- ✓ Participate in on-campus placement drives, register for events, and view event details.
- ✓ Ability to build and showcase professional profiles and resumes, customize profiles, and manage visibility settings.

5.2 Admin Role:

- ✓ Administrators have full access to all features and functionalities of the portal.
- ✓ Manage user accounts, including creating, editing, and deleting accounts.
- ✓ Configure system settings, such as privacy settings and email notifications.
- ✓ Manage content moderation by approving or removing posts, comments, and job listings.
- ✓ Handle user support and address any technical issues or concerns raised by users.

5.3 Maintainer Role:

- ✓ Keep the portal updated and running smoothly.
- ✓ Enhance the portal by adding new features and modules.
- ✓ Update job postings, event listings, and user profiles.

- ✓ Monitor performance, fix technical issues, and apply software updates for smooth operation.
- ✓ Maintainers work with administrators to implement changes based on user feedback and system needs.

6. NON-FUNCTIONAL REQUIREMENT

6.1 Performance Requirements

- Website must run in slow internet connections too.
- Data of user must be saved automatically in case of disconnectivity.
- Switching between links must be fast

6.2 Safety Requirements

- Website must be safe from intruder
- No two person should have same id
- Admin's id must be unique and encrypted

6.3 Security Requirements

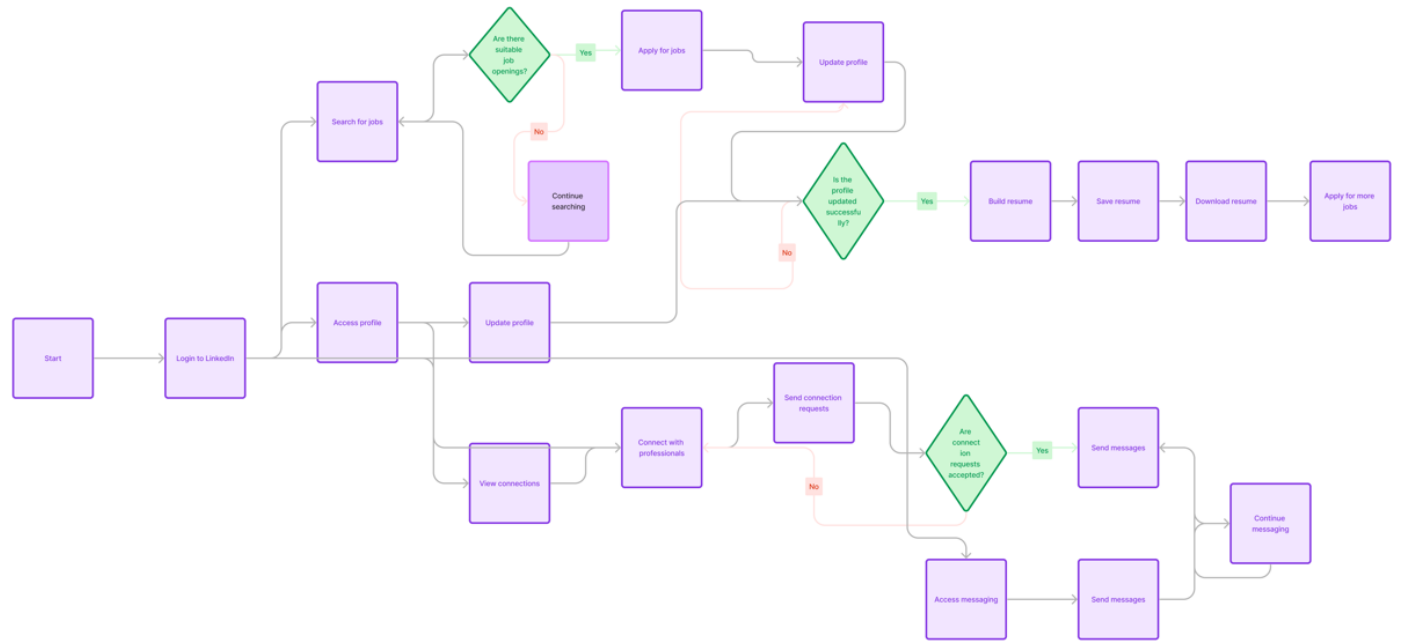
- User are advised to change their password after every 30 days
- User can attempt maximum 3 times for login in their account

6.4 Scalability

- The platform should be scalable to accommodate increasing data volume.
- It should also support new features and needs over time.

7. FLOWCHART

7.1 USER



7.2 ADMIN

