BIT LINKEDIN PORTAL

PROJECT ID – 33

TECH STACK: SPRING BOOT STACK (JAVA)

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PROBLEM STATEMENT:

To create a BIT LinkedIn Portal with the included features

- Login credentials using BIT Sathy mail ID.
- All facilities inside a general LinkedIn portal should be reflected.
- Need messaging facility among the peers. Provide a Job search platform wherein the students could search for jobs/ internships based on their interests.
- Separate Link to know about the BIT on-campus placement drives and results.
- Portal to design a resume professionally (Separate plugins should be added to design a resume on submitting the details).

SCOPE OF THE PROJECT:

The project aims to develop a LinkedIn-like portal specifically tailored for a college environment, focusing on connecting students, facilitating communication, aiding in job searches, and providing resources for career development. Key features include login using BIT Sathy mail ID, profile building, messaging among peers, job search based on interests, on-campus placement drive information, and resume design. The portal will serve as a comprehensive platform for college students to network, collaborate, and explore career opportunities within the college ecosystem.

GOAL OF THIS PROJECT:

To get the details about placements, resume should be generated whenever we add any achievements in our profile, to get notified if any job roles of our preferred interests and skills are available, and interactions among the alumni and students for any clarifications in jobs or project developments.

REQUIREMENT GATHERING:

The problem statement holder wants an application which can only be accessed by the students od BIT and collaborate with other BIT peers.

Functional Requirements:

- User authentication and authorization
- Profile management (building, editing, viewing)
- Messaging system among peers
- Job search functionality
- Notification system for job alerts and placement drives
- Resume generation feature
- Admin panel for managing users, job listings, and placement drives

Non- Functional Requirements:

- Performance requirements
- Security requirements
- Compatibility requirements (browsers, devices)

USER STORIES:

- **Student Login:** Students can securely log in to the portal using their BIT Sathy mail ID.
- **Profile Management:** Students can build and manage their profiles, showcasing personal details, skills, interests, education, and work experience.
- **Messaging System:** Students can connect and communicate with peers through a messaging system to network and collaborate.
- **Job Search Portal:** Students can search for job opportunities based on their interests and qualifications.
- **Placement Drive Notifications**: Students receive notifications about on-campus placement drives to stay updated about job opportunities.
- **Resume Generation:** Students can generate a professional resume based on their profile information for job applications.
- **Administrator Management**: Administrators can manage user accounts, job listings, and placement drive information efficiently.
- **Notification Broadcasting**: Administrators can send notifications to users about important updates and events to keep them informed.

WORKFLOW:

1. **Planning Phase:**
   - Identified the problem statement, it's scope, goals and objectives.
2. **Requirements Phase:**
   - Gathered detailed requirements from the client and defined the user stories and requirements.
3. **Architecture Phase:**
   - Selected the suitable technologies and frameworks.
   - Here, I opted for Spring Boot, ReactJS, PostgreSQL.
4. **Development Phase:**
   - Implement the frontend using ReactJS.

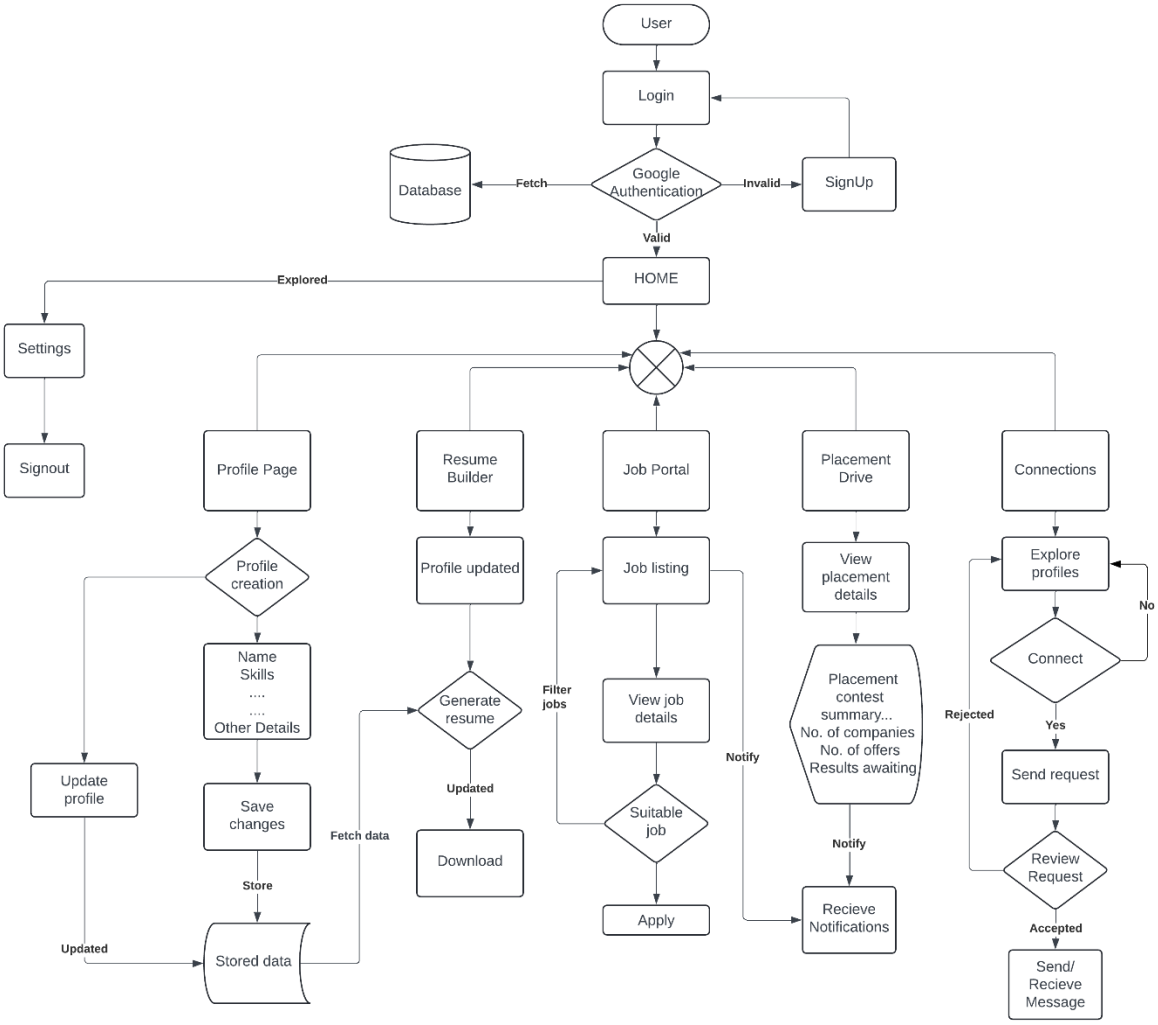
- Develop the backend using Spring Boot with Java.
- Integrate frontend and backend components.
- Implement login functionality using BIT Sathy mail ID.
- Develop profile building features similar to LinkedIn.
- Implement messaging functionality among peers.
- Create a job search platform based on user interests.
- Develop a notification system for placement drives and job alerts.
- Implement resume generation feature.

5. **Testing and Deployment Phase:**
    - Conduct testing and deploy the application on a server.

IMPLEMENTATION:

1. **Web page Design:**
    - Designing a webpage using wireframes or Figma helps in developing the frontend faster with a clear understanding of UI of the webpage.
    - Discuss with the client showing the prototype and clarify for any changes.
2. **Frontend Development:**
    - Using HTML, CSS and JavaScript with a frontend framework React, we can create the user interface and make the pages more responsive and interactive for user convenience.
3. **Database Design and implementation:**
    - Configuring Spring Boot to connect to PostgreSQL database using Spring Data JPA repositories for data storage and retrieval.
4. **Backend Development:**
    - Setting up a Spring Boot project to handle the backend logic and data processing of the project and integrate it with the Spring Data JPA for database operations.
5. **Testing and Deployment:**
    - After the completion of the website, we should test it according to the requirements of the client and deploy the application on a server and make it available for the BIT community to access the BIT LinkedIn portal.

FLOWCHART:


User
Login
Database
Fetch
Google Authentication
Invalid
SignUp
Valid
HOME
Explored
Settings
Signout
Profile Page
Resume Builder
Job Portal
Placement Drive
Connections
Profile creation
Profile updated
Job listing
View placement details
Explore profiles
Name
Skills
....
....
Other Details
Generate resume
Filter jobs
View job details
Placement contest summary...
No. of companies
No. of offers
Results awaiting
Connect
No
Update profile
Save changes
Fetch data
Updated
Download
Suitable job
Notify
Rejected
Yes
Send request
Store
Updated
Stored data
Apply
Recieve Notifications
Review Request
Accepted
Send/ Recieve Message