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Project Id: 33
Project Title: BIT LINKEDIN PORTAL

Technical Components:

Component	Tech stack
Frontend	Html, CSS and js
Backend	Django
Database	Mysql
Api	Open API, SOAP API and REST Ful API

Implementation Timetable:

Phase	Work stage
Stage 1	Planning requirement gathering
Stage 2	Design and prototyping
Stage 3	Db designing
Stage 4	Backend implementation
Stage 5	Testing & integration
Stage 6	Deployment

BIT LINKEDIN PORTAL

SOFTWARE REQUIREMENT SPECIFICATION DOCUMENTATION

PROJECT WORKFLOW:

INTRODUCTION:

The goal of the BIT LinkedIn Portal initiative is to transform networking and professional development for the Bannari Amman Institute of Technology (BIT) community. Through the provision of an all-inclusive online platform, the portal enables smooth interactions between BIT students, graduates, and businesses. By utilizing Python's Django framework, the site guarantees strong functionality, security, and scalability. Every element, from managing job postings to authenticating users, has been painstakingly designed to improve user experience. Through an easy-to-use interface and a user-centric design approach, the portal enables people to investigate career options, establish professional connections, and obtain essential materials customized to meet their requirements. The BIT LinkedIn Portal aims to become a vital resource for BIT stakeholders by encouraging cooperation and creativity, which will propel professional advancement and create deep relationships within the BIT community and beyond.

STAKEHOLDERS:

The primary stakeholders of the bit LinkedIn portal are bit students and alumni, they stand to gain directly from its features and functionalities. Faculty, administrators, and prospective employers/recruiters who use the platform to assist career development programs, enable networking possibilities, and access talent pools within the bit community may also be considered additional stakeholders.

SCOPE OF THE PROJECT:

The creation of an extensive web-based platform customized to meet the unique requirements of bit students and alumni is included in the scope of the bit LinkedIn portal. Within the bit community, the portal will provide as a primary location for networking, career development, and professional advancement.

- **User authentication and profile creation:** bit students and alumni are able to sign up and make customized profiles that highlight their training, expertise, experiences, and professional goals.

- **Job search and application:** through the site, users can look through job posts that are relevant to their areas of interest and apply for opportunities immediately.

- **Networking and connections:** in order to grow their professional network and look for mentorship possibilities, users can connect with other bit students, faculty members, alumni, and prospective employers.

- **Resource library:** to assist skill development and professional growth, the portal will give users access to a multitude of career materials, such as articles, manuals, webinars, and seminars.

- **Message & communication:** an internal message system allows users to connect with one another, which promotes networking and teamwork.

- **Administrative tools:** to manage user accounts, filter material, and track platform activity, administrators will have access to a variety of tools.

BUSINESS CONTEXT:

The portal aims to enhance networking, career development, and professional opportunities for bit students and alumni. It also serves as a platform for employers to connect with potential candidates from the bit community.

CONSIDERATIONS:

The project will need to integrate with bit's existing infrastructure, including the stay mail system. Additionally, branding guidelines and data privacy regulations must be adhered to throughout the development process.

DEPENDENCIES:

The successful completion of the project depends on factors such as access to bit's its infrastructure, collaboration with relevant stakeholders, and adherence to project timelines and budgets.

USER PERSONAS:

1. Bit students seeking internships or job opportunities.
2. Bit alumni looking to connect with peers and explore career advancements.
3. Faculty and administrators managing on-campus placement activities.
4. Recruiters and employers seeking talent from the bit community.

FUNCTIONAL REQUIREMENTS:

Functional requirements include user authentication, messaging functionality, job search capabilities, on-campus placement management, and resume designing features.
- User authentication and authorization
- Job seeker features

- Employer features
- Admin features
- General features

NONFUNCTIONAL REQUIREMENTS:

Nonfunctional requirements encompass aspects such as performance, security, usability, reliability, and compatibility. This includes fast page loading times, secure data encryption, intuitive user interface design, high availability, and compatibility with various devices and browsers.

This workflow outlines the key components and considerations for the development of the bit LinkedIn-style portal, ensuring alignment with project goals and stakeholder expectations.

DOCUMENTATION AND TRAINING:

Manual for Users: We'll develop simple to use instructions for BIT alumni, companies, and students to use the platform. These tutorials will have screenshots, FAQs, and detailed directions.

Administrator Documentation: Comprehensive manuals covering duties such as administering user accounts and job listings will be made accessible to platform administrators.

Training Sessions: To make sure administrators are comfortable using the platform, we'll host training sessions that include hands-on practice and Q&A sessions.

User Support: Email or a helpdesk system are two ways that users can get assistance. We'll respond quickly to any problems or inquiries they might have.

Input Collection: To continuously enhance our training materials and documentation, we will collect user input.

Updates and Revisions: To make sure users have access to the most recent information, we will update our documentation frequently to reflect any changes made to the platform. Accessibility: If additional formats are required, we will make sure that our resources are available to all users, including those with a variety of needs.

REFERENCES:

Django documentation: official Django web framework documentation, utilized in the development of the bit LinkedIn portal. [Django documentation link] bit branding guidelines: Bannari Amman institute of technology (bit) has set guidelines for visual

identity standards and branding that should be adhered to while developing the bit LinkedIn portal.

GLOSSARY:

1. **Bit:** Bannari Amman institute of technology, the educational institution for which the bit LinkedIn portal is being developed.
2. **Django:** a high-level python web framework that encourages rapid development and clean, pragmatic design.
3. **Ui:** user interface, the visual elements and interactive components through which users interact with the bit LinkedIn portal.
4. **Ux:** user experience, the overall experience of a person using the bit LinkedIn portal, including usability, accessibility, and satisfaction.
5. **Api:** application programming interface, a set of rules and protocols that allows different software applications to communicate with each other

CONCLUSION:

The BIT LinkedIn Portal for students, alumni, and employers at BIT. You sign in securely to see job listings, apply for jobs, or post job opportunities. It's easy to use, reliable, and keeps your information safe. You can message others and get notifications, so you're always in the loop. We've thought about everything to make sure it works well for everyone involved. Overall, it's here to help you connect, communicate, and find success within the BIT community.

FLOWCHART:

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                    ┌──────────────────────────────────┐
                    │  User accesses BIT LinkedIn Portal │
                    └──────────────────────────────────┘
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              yes  ┌─────────────────────────────┐  no
         ┌─────────┤   User has BIT sathy mail ID? ├─────────┐
         │         └─────────────────────────────┘          │
         ▼                                                    ▼
┌──────────────────────┐                         ┌──────────────────────┐
│ User enters BIT sathy │                         │ Display error message │
│       mail ID          │                         └──────────────────────┘
└──────────────────────┘                                     │
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         ▼                                                    ◉
┌──────────────────┐
│ Verify credentials│
└──────────────────┘
         │
   yes  ┌──────────────────────┐  no
  ┌─────┤ Credentials are valid? ├─────┐
  │     └──────────────────────┘       │
  ▼                                      ▼
┌─────────────────────────────┐   ┌──────────────────────┐
│ Redirect to General LinkedIn │   │ Display error message │
│          Portal              │   └──────────────────────┘
└─────────────────────────────┘              │
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  ▼                                           ◉
┌───────────────────────────────────────────────────────────────┐
│ Display Profile, Messaging, Job Search, On-Campus Placement,   │
│                     Resume Builder                             │
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┌──────────────────────────┐
│ User interacts with features │
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│ User wants to message peers? ├──────────┐
└──────────────────────────────┘          │
  │ yes                                     │
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┌──────────────────────────┐                │
│ Access Messaging feature  │                │
└──────────────────────────┘                │
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  ▼                                           │
┌────────────────────────────────┐           │
│ Send and receive messages with  │           │
│            peers                 │           │
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┌──────────────────────────────────────┐
│ User wants to search for jobs/internships? ├────────┐
└──────────────────────────────────────┘             │
  │ yes                                                │
  ▼                                                     │
┌──────────────────────────┐                          │
│ Access Job Search feature │                          │
└──────────────────────────┘                          │
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  ▼                                                     │
┌────────────────────────────────────┐                │
│ Search for jobs/internships based on │                │
│            interests                 │                │
└────────────────────────────────────┘                │
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  ▼                                                     │
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┌───────────────────────────────────────────────────────┐
│ User wants to know about on-campus placement drives?   ├────┐
└───────────────────────────────────────────────────────┘    │
  │ yes                                                        │
  ▼                                                             │
┌────────────────────────────────┐                            │
│ Access On-Campus Placement feature │                        │
└────────────────────────────────┘                            │
  │                                                             │
  ▼                                                             │
┌────────────────────────────────────────┐                    │
│ View information about placement drives  │                    │
│             and results                  │                    │
└────────────────────────────────────────┘                    │
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  ▼                                                             │
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┌──────────────────────────────┐
│ User wants to design a resume? ├──────────┐
└──────────────────────────────┘            │
  │ yes                                       │
  ▼                                            │
┌──────────────────────────┐                 │
│ Access Resume Builder feature │             │
└──────────────────────────┘                 │
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  ▼                                            │
┌────────────────────────────────────────┐   │
│ Use separate plugins to design a         │   │
│       professional resume                │   │
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