Software Requirement Specification for IRP Dashboard

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PROBLEM STATEMENT	IRP DASHBOARD

1)System overview:

A database of industrial persons who have visited educational institutions is available on the industry relation program website, providing a comprehensive system overview. The Industry Relation Programme for Database Management Systems (DBMS) website, employs the LAMP stack. The LAMP stack consists of the operating system Linux, the HTTP server Apache, the database MySQL, and the programming language PHP.

2)Problem Statement:

The industry relation program website is designed to assist educational institutions in establishing connections with professionals from various industries. With a database of industrial persons who have visited these institutions, the website aims to bridge the gap between academia and industry, promoting knowledge exchange and fostering mutually beneficial relationships.

3)System objective:

The primary goal of the database is to provide a comprehensive overview of the industrial persons who have visited educational institutions, including their background, expertise, and the institutions they have visited. This information can be valuable for educational institutions looking to invite industry professionals for guest lectures or workshops, as well as for industrial professionals seeking opportunities to engage with academia. By centralizing this information on the industry relation program website, it becomes easily accessible to both parties, promoting greater collaboration and knowledge sharing.

3.1 USER

- Students could use the website to learn about the types of industry interactions offered by the program. This can help them plan their academic journey and participate in relevant workshops or seminars.
- Users might be directed to contact the program itself to express interest in connecting with a specific guest speaker.

3.2 ADMIN

- By highlighting past events and partnerships, the admin aims to showcase potential career paths for students within different industries.
- The admin ensures the website has accurate and up-to-date information about past events, industry partners, and program activities.

4)System Requirements:

4.1 FUNCTIONAL REQUIREMENTS:

- **User Authentication (for Admin):** Require login credentials (username and password or multi-factor authentication) for accessing the website's administrative functionalities.
- **Search/Filter:** A search bar allowing users to find specific information about past events, industry partners, or program activities. And filter can be based on company, date of event, domain, department., etc.
- **Edit:** Create and edit new content entries and Securely manage the guest speaker database by adding/editing/removing.
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4.2 NON-FUNCTIONAL REQUIREMENTS:

- **Security:** Implementing robust security measures to protect the confidentiality and integrity of industrial visitor data, ensuring compliance with data protection regulations.
- **Scalability:** The website should be able to scale seamlessly to accommodate an increasing number of industrial visitors and data entries without compromising performance.
- **Maintainability:** The website should be easy to maintain and update, allowing for efficient management of industrial visitor data and database maintenance tasks.

5)System Architecture:

5.1 FRONT END:

- The frontend of the website, created using **HTML, CSS, and JavaScript**, presents the database information to users in a user-friendly and interactive manner.

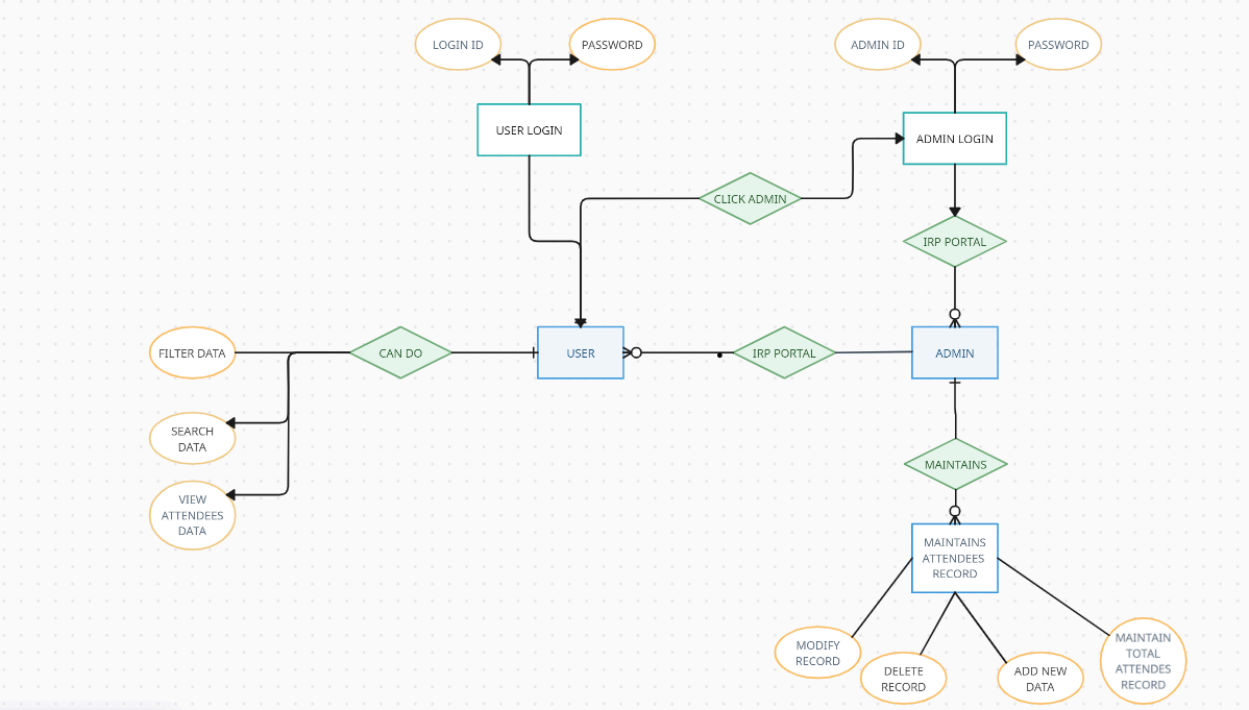
5.2 BACKEND:

- **Linux (Operating System):** At the base of the LAMP stack, Linux serves as the operating system, providing a stable and secure foundation for the website.
- **Apache (HTTP Server):** Apache, the second layer of the stack, handles web server functionalities, such as receiving requests from users' browsers and serving web pages.
- **PHP (Programming Language):** PHP, the top layer of the stack, is used for server-side scripting to interact with the database, retrieve relevant data, and dynamically generate web content based on user requests.

5.3 DATABASE:

- **MySQL (Database):** MySQL, the third layer, manages the database where information about industrial persons who have visited as chief guests is stored, allowing for efficient data organization and retrieval.

ER Diagram



6)Data Flow:

6.1 DATA INPUT:

Information about industrial persons who have visited including their names, roles, affiliations, and visit details, is entered into the database by administrators or authorized personnel from the educational institutions.

6.2 DATA PROCESSING:

The data is stored in a centralized database managed by the educational institutions. The website's backend, likely powered by the LAMP stack, processes user requests to access information about these industrial persons. Queries are executed to retrieve specific data based on user search criteria or browsing requests.

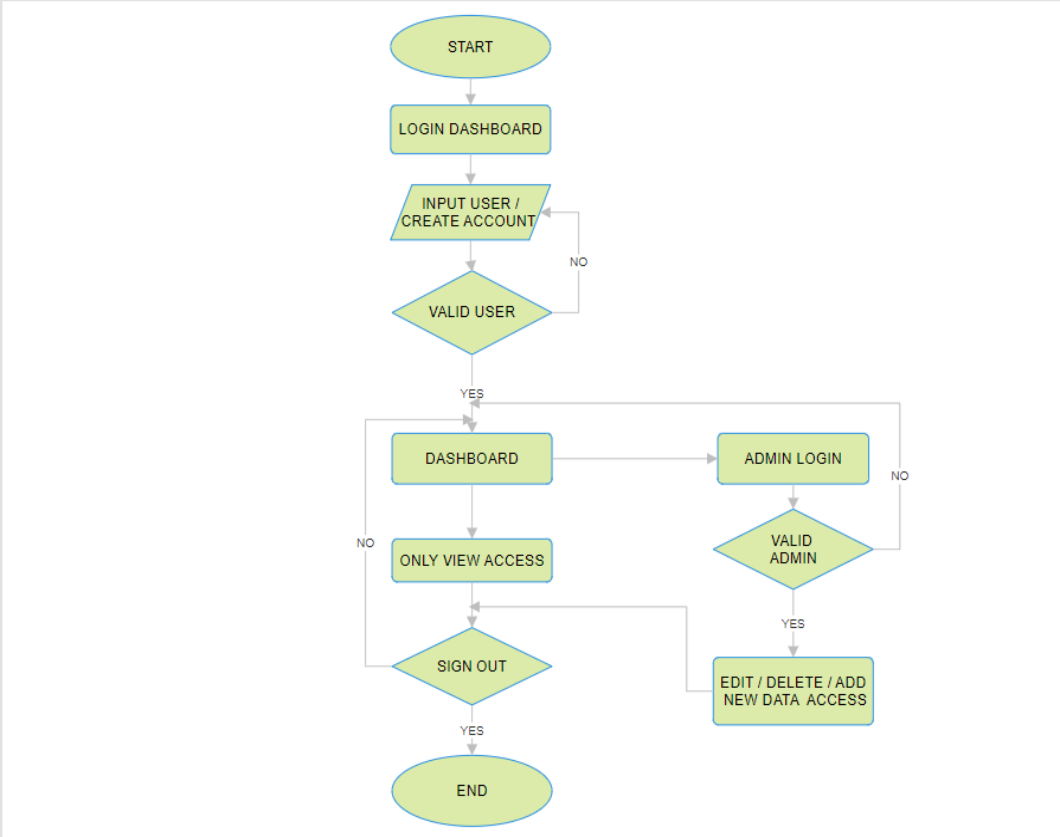
6.3 DATA OUTPUT:

The website's frontend interface dynamically generates web pages displaying information about the industrial persons who have visited as chief guests. Users, including students, faculty, industry professionals, and the public, can access this information, view profiles, and learn about the interactions between industry and academia.

6.4 DATA MAINTENANCE:

Regular updates and maintenance of the database are conducted to ensure the accuracy and relevance of the information presented on the website. The educational institutions oversee the management and upkeep of the database to reflect the latest interactions and visits by industrial persons.

FlowChart

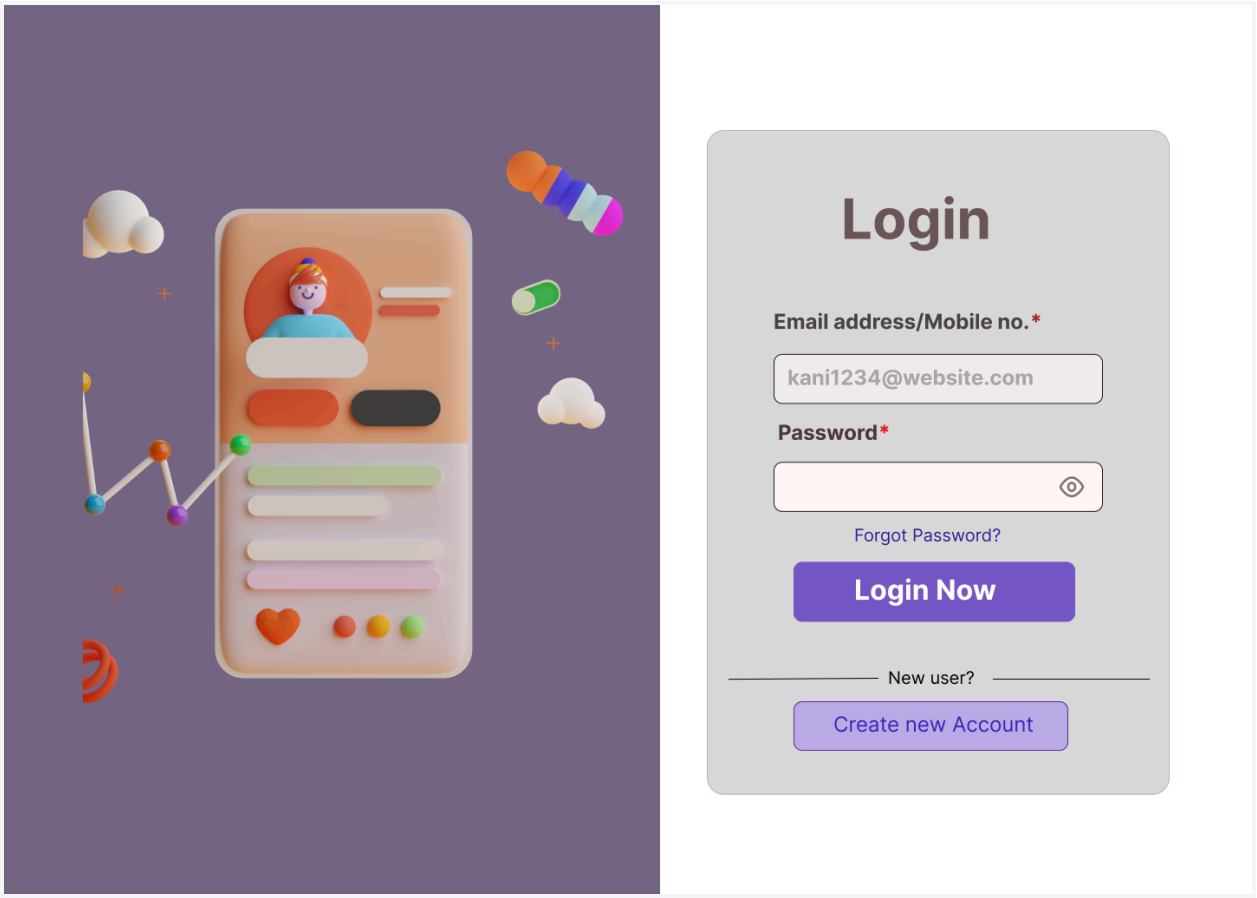


7) Technologies:

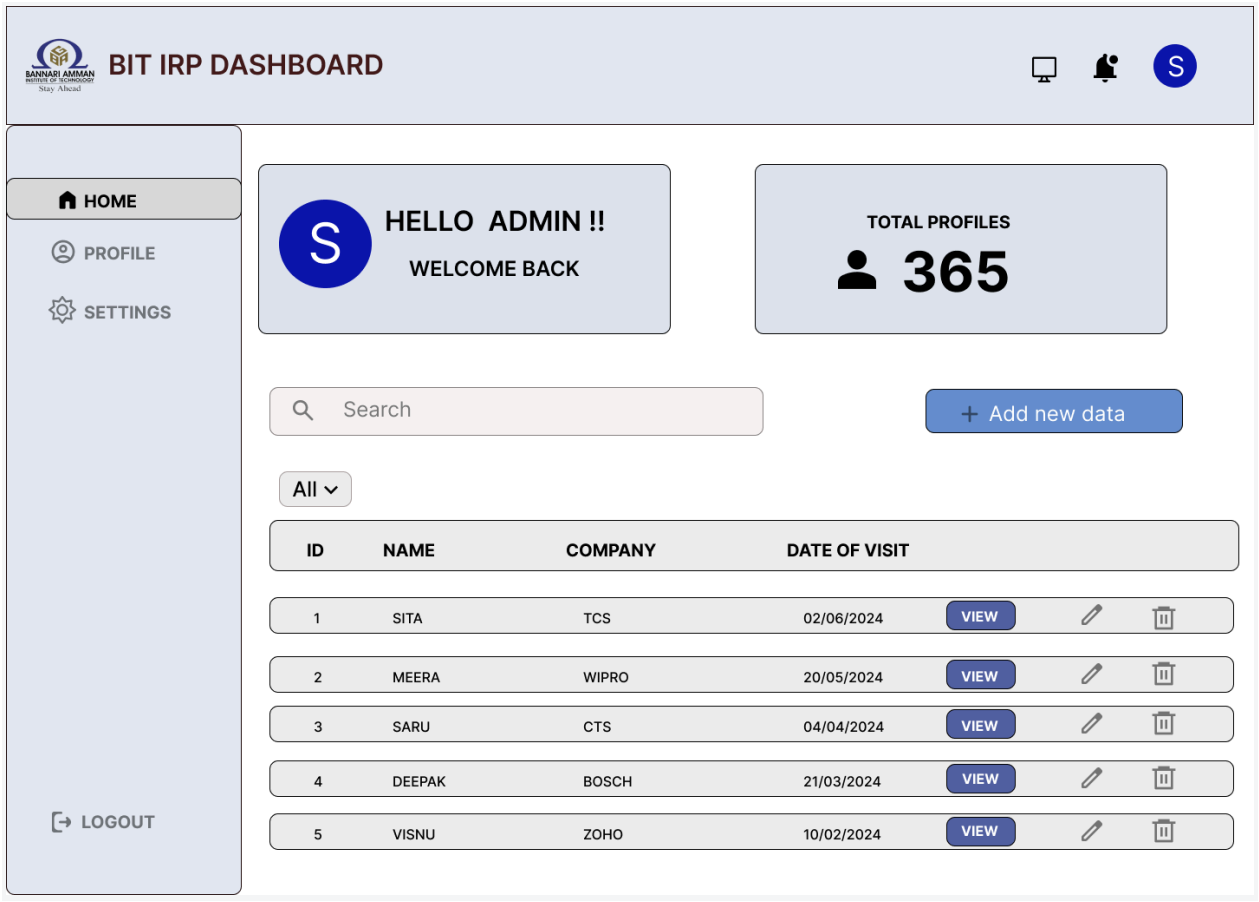
Front End	HTML , CSS , Javascript
Back End	Linux , Apache , PHP
Database	MySQL

8) Model of IRP Dashboard:

1) LOGIN PAGE



2)ADMIN PAGE


BIT IRP DASHBOARD
HOME
PROFILE
SETTINGS
LOGOUT
HELLO ADMIN !!
WELCOME BACK
TOTAL PROFILES
365
Search
Add new data
All
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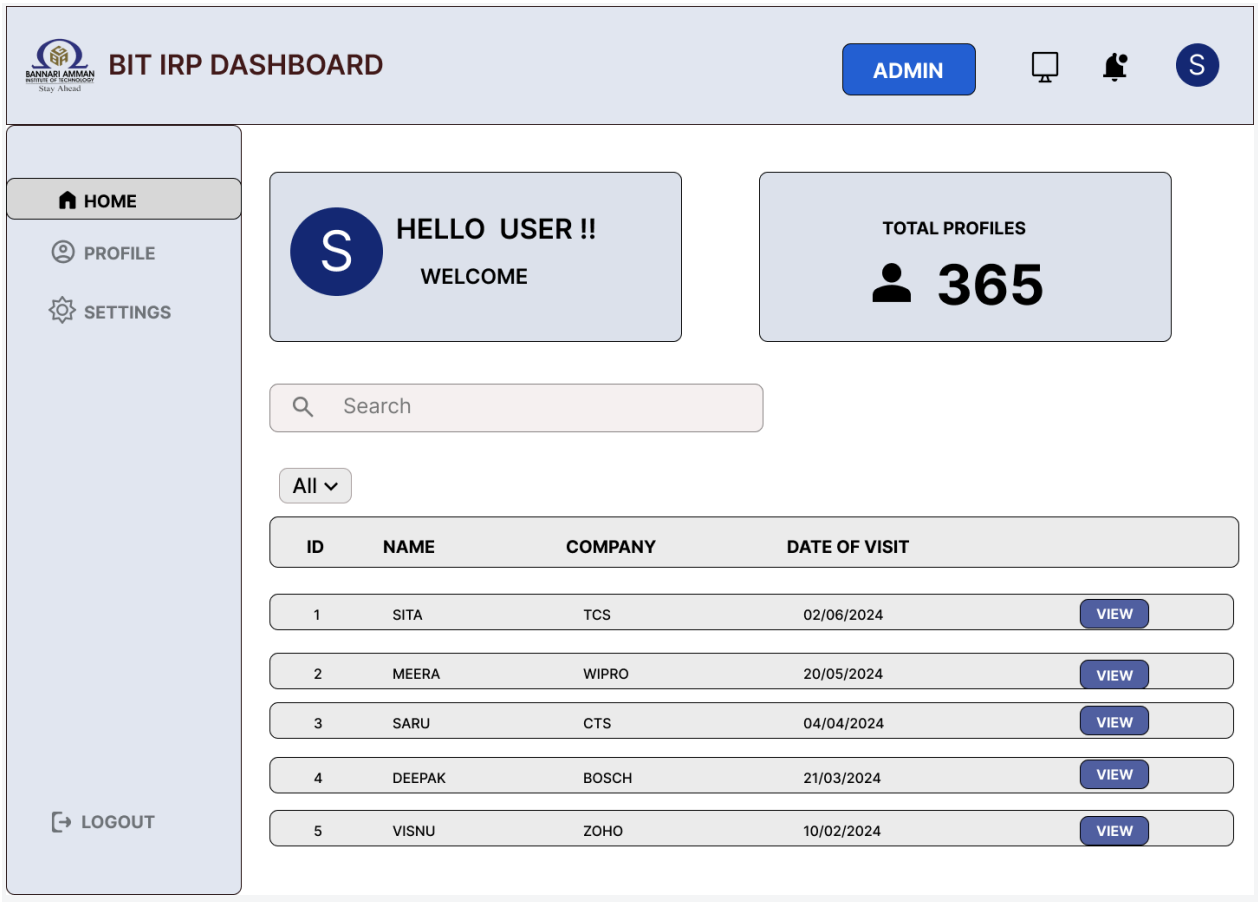
COMPANY
DATE OF VISIT
1 SITA TCS 02/06/2024 VIEW
2 MEERA WIPRO 20/05/2024 VIEW
3 SARU CTS 04/04/2024 VIEW
4 DEEPAK BOSCH 21/03/2024 VIEW
5 VISNU ZOHO 10/02/2024 VIEW

3)USER PAGE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WIPRO
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BOSCH
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ZOHO
10/02/2024
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