



BANNARI AMMAN INSTITUTE OF TECHNOLOGY

An Autonomous Institution Affiliated to Anna University - Chennai, Accredited by NAAC with A+ Grade
Sathyamangalam - 638401 Erode District, Tamil Nadu, India

STUDENT NAME:	SABARISH A
SEAT NO:	389
PROJECT ID:	29
PROBLEM STATEMENT:	BIT - Interview Candidate Details
PROJECT TITLE:	INTERnLINK

TECHNICAL COMPONENTS

COMPONENT	TECH STACK
Frontend	HTML CSS JS
Backend	Python Django(Python Web)
Database	PostgreSQL MySQL
API	OpenAPI SOAP APIs REST Ful API



INTERnLINK – BIT

PROBLEM STATEMENT:

The decentralized nature of managing intern data within the educational institution poses several challenges, including:

- Data Fragmentation: Intern data is scattered across various departments and systems, leading to inconsistencies and inefficiencies in data management.
- Communication Gaps: Lack of a centralized system results in communication breakdowns between administrators, department heads, and interns, impacting the management process.
- Administrative Burden: Manual handling of intern data, and updating information leads to a significant administrative workload for staff and faculty.
- Inefficient Data Management: The current use of MS Excel for storing and searching intern data is not very efficient and user-friendly.

To address these challenges and streamline the intern management process, there is a need for a centralized and efficient system that can effectively track, update, and manage intern data across various departments and teams within the educational institution.

PURPOSE:

The purpose of this project is to create a centralized system that enables the educational institution to efficiently store and manage the data of hired interns, reducing data inconsistencies and administrative overhead.

SCOPE:

The Intern Data Management System will include the following key features:

- User Authentication: Secure login for admin users.
- Intern Data Entry: Admins will manually enter and manage intern data including Intern ID, Name, Team, Educational Details, Contact Details, and other relevant details.
- User Management: Admins can add new department staff (Users) who can access the system.
- Search and Access: Both Admins and Users can search and retrieve intern data easily by Intern ID, Name, Team, Gender, Working Status, etc.
- Data Visualization: The homepage will display data visualizations, such as:
 - Number of interns in various departments (bar graph)
 - Number of interns based on gender (pie chart)
 - Number of interns based on their selection status (horizontal bar graph)

The system will provide a user-friendly interface for admins and users to efficiently manage and access intern data.

BUSINESS CONTEXT:

The Intern Data Management System aims to streamline the storage, management, and accessibility of intern information, benefiting both administrators and department staff. By centralizing intern data and providing advanced search and visualization capabilities, the system will enhance efficiency in managing intern records and facilitate easy access to intern information.

CONSIDERATIONS:

- Admin and users will have secure access to the system with appropriate roles and permissions.
- Data security and privacy measures will be implemented to protect intern information.
- The system will be designed to handle a large volume of intern records efficiently.

DEPENDENCIES:

- Integration with Google OAuth for user authentication.
- Reliable performance and availability of the database servers.

USER PERSONAS:

- Admin: Responsible for adding new interns, managing user accounts, and accessing/searching all intern data.
- Department Staff (User): Can search and access intern data relevant to their department.

USER STORIES:

- As an Admin, I want to be able to add new interns and new department staff (Users) to the system, so that I can efficiently manage the intern data and user access.
- As an Admin or Department Staff (User), I want to be able to search and access intern data easily by various criteria, so that I can quickly find the information I need.
- As an Admin or user, I want to see data visualizations on the homepage, such as the number of interns in different departments, their gender distribution, and selection status, so that I can gain valuable insights at a glance.

FLOWCHART:

