

Software Requirement Specification for Industry Relation Programme(IRP visit)

Name	Pooja N
Roll no	7376221CS255
Seat no	70
Project ID	30
Problem Statement	Industry Relation Programme-DBMS

1. Introduction

1.1. Purpose:

The purpose of the project is to create a comprehensive dashboard for managing and showcasing the activities and collaborations of the Industry Institute Partnership Cell (IIPC) within the college. Through this platform, stakeholders can easily access information about the institute, explore industry MoUs, committee members, resource persons, IIPC impact analysis and event details across different academic years.

1.2. Scope of Project:

- **Development of a Comprehensive Dashboard:** The project scope involves developing a comprehensive dashboard for the Industry Relations Programme Visit, featuring sections for Institute Name, About IIPC, Industry MoUs, Committee Members, Resource Persons, IIPC Impact Analysis, and Event Lists for different academic years.

- **Interactive Navigation and Information Access:** Users can navigate through the dashboard to access specific information, such as details about the institute, committee members, MoUs, and events. The dashboard allows filtering and viewing of resource persons based on location and company, providing insights into their visits, programs conducted, and contact details.

2. System Overview:

2.1.Users:

1.Users:Users can view information on institute details,committee members, and events. They can navigate through academic years to view event specifics and Additionally, users can filter and view resource persons by location and company, accessing details such as their names, designations, contact information, and program participation.

2. Admins: Admins can efficiently manage MoUs with industry partners, oversee committee members, curate resource person details, coordinate events across academic years, and provide insights into the impact analysis of IIPC initiatives and additionally, they have access to backend functionalities for data management and user permissions.

2.2. Features:

1. User Authentication:

Users can register and login to access the dashboard, while admin has control over the dashboard's content and functionalities.

2. Navigation and Page Structure:

Intuitive navigation allows users to explore sections like IIPC, industry MoUs, committee members, resource persons, and event lists with seamless redirection to respective pages.

3. Event Management:

Admin can manage event details for each academic year, including program names, venues, resource persons, departmental references, and program types, enhancing transparency and organization.

4. Resource Person Tracking:

Users can filter resource persons by location and view details such as company names, addresses, and the count of resource persons visited, providing insights into industry connections.

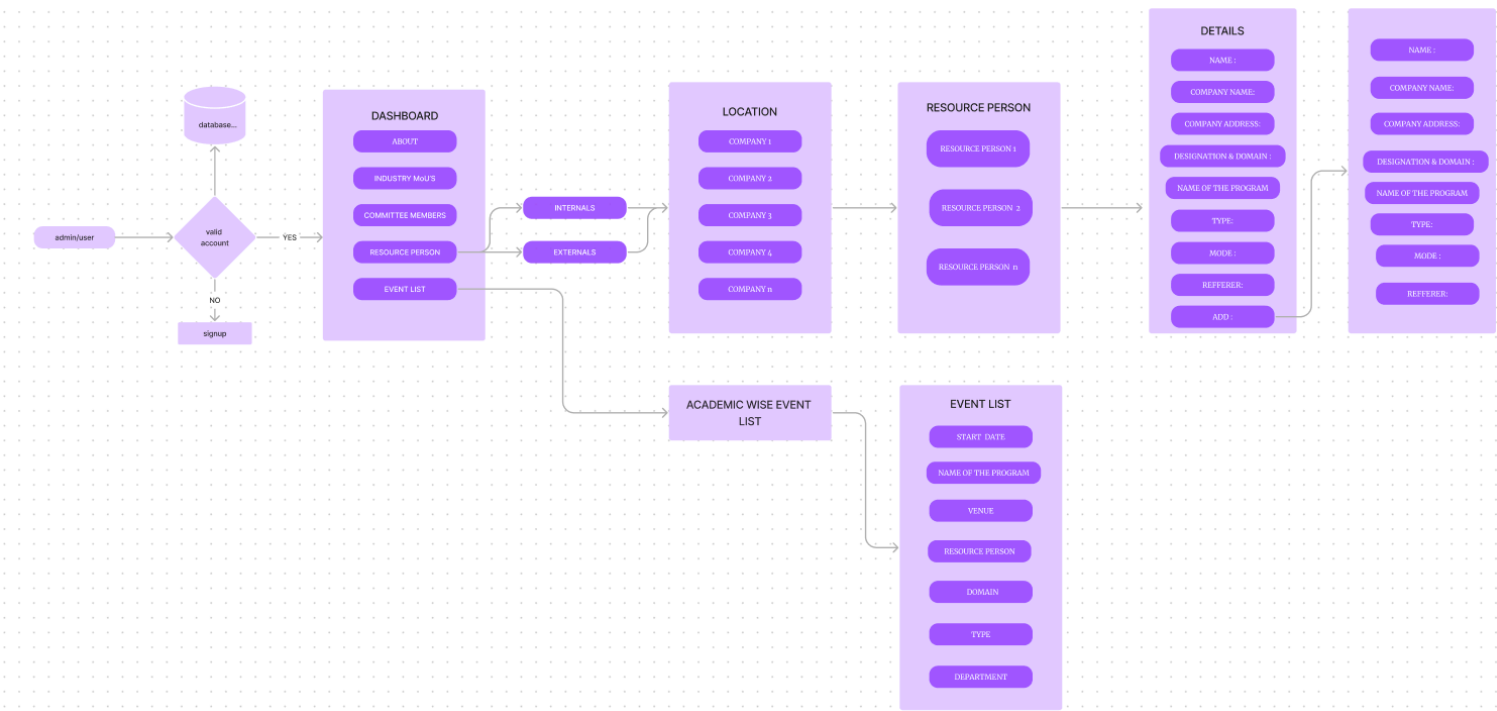
5. MoU Repository:

Admin maintains a repository of industry MoUs, detailing collaboration terms, fostering transparency and accountability in partnership agreements.

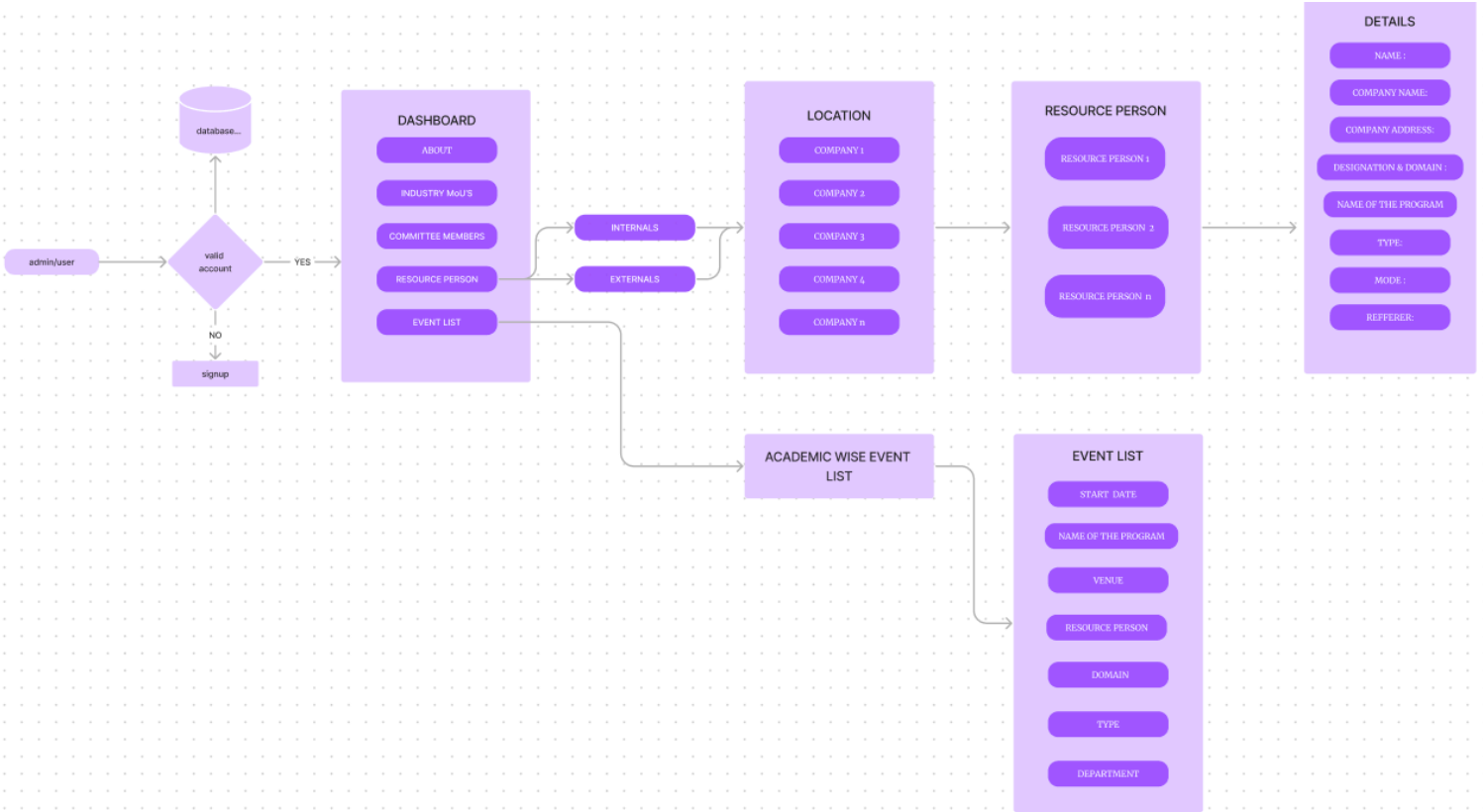
6. Impact Analysis and Reporting:

Admin conducts impact analysis on IIPC activities, tracking the program's effectiveness and outcomes, and generates reports for stakeholders' insights and decision-making.

Admin's Interface``



User's Interface



3. System Requirements Specification:

3.1 Functional Requirements:

1.User Management:

- Students can register and login.
- Admins have access control with an analytical dashboard and dedicated features.

2.Dynamic Page Linking:

- Clicking on a section leads to a dedicated information page.
- "Event List" section:
 - Displays a list of academic years.
 - Clicking on an academic year leads to its event details page.

3.Event Information Display:

- Structured format for easy access and understanding.
- Includes details like:
 - Start date
 - Program name
 - Venue
 - Resource person
 - Department
 - Domain
 - Program type
 - Total hours
 - Referrer

4.Resource Person Management:

- Filtering by location (company).
- Clicking on a company displays:
 - Count of resource persons visited
 - Individual details:
 - Name
 - Designation
 - Domain
 - Company name
 - Company Address
 - Interaction mode (online/offline)
 - Program type(s)

- Email
- Contact number
- Referrer

5.Admin Management Interface:

- Manage all dashboard content (CRUD operations):
 - Institute information
 - Committee members
 - MoU's
 - Event details
- Exclusive access for admins to manage content.
- Restricted access for other users (view-only).

6.Data Security and Access Control:

- Secure storage of sensitive information.
- Admin control over user access permissions based on roles.

3.2. Non-Functional Requirements:

1. Performance:

- **Responsive:** Loads quickly on various devices and browsers.
- **Fast Data Retrieval:** Queries and data display within acceptable timeframes.

2. Scalability:

- **Adaptable to Growth:** Accommodates increasing data volume (events, resource people, etc.) and user traffic.
- **Maintains Performance:** Handles growth without significant performance degradation.

3. Security:

- **Data Protection:** Ensures confidentiality, integrity, and availability of data.
- **Access Control:** Restricts access to sensitive information based on user roles.
- **Data Encryption:** Protects data transmission from unauthorized access.

4. Usability:

- **Intuitive Interface:** Clear navigation, labels, and user guidance.
- **Contextual Help:** Provides assistance to users unfamiliar with the system.
- **Aesthetic Consistency:** Pleasing and consistent design across all pages.

5. Reliability:

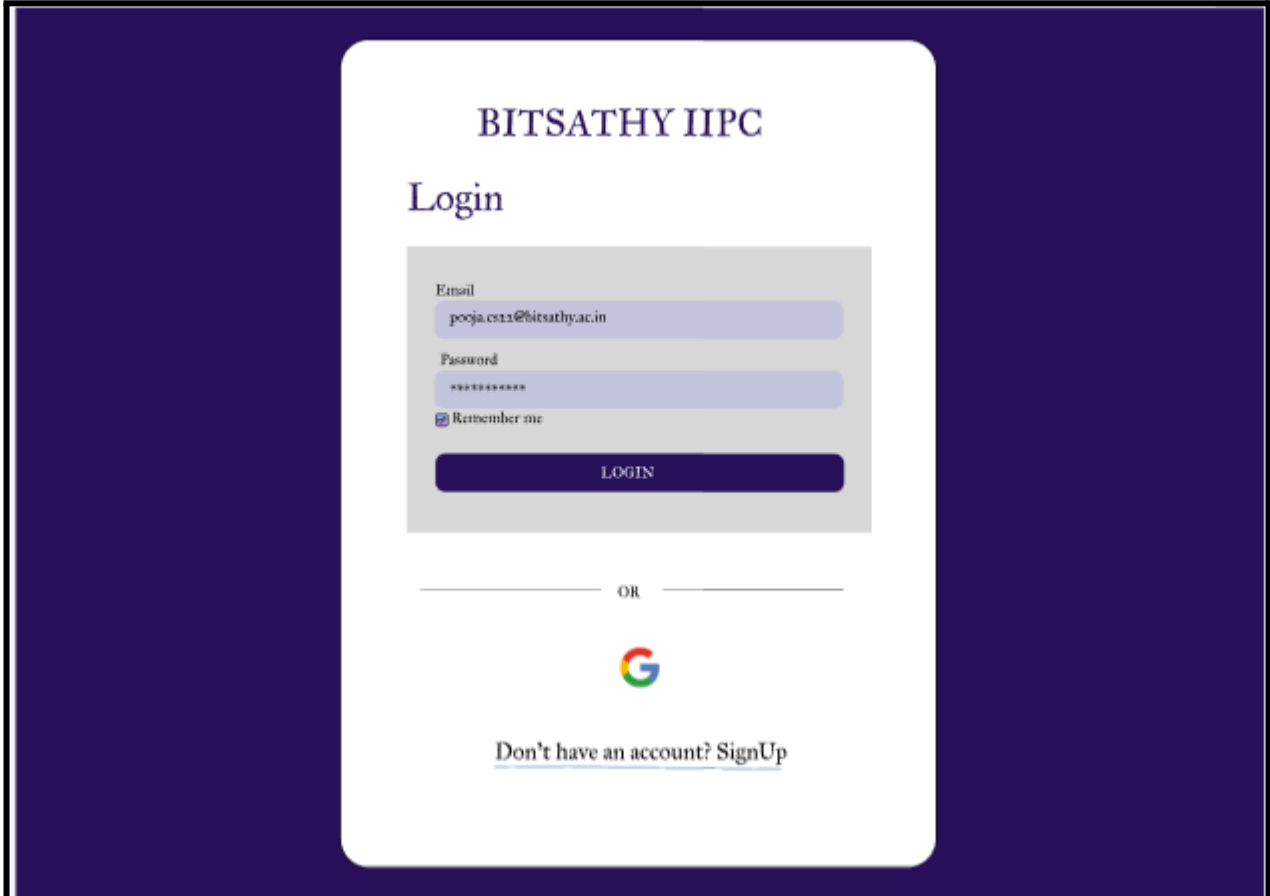
- **High Availability:** Accessible whenever users need it.
- **Error Handling:** Gracefully handles errors and recovers quickly.
- **Regular Backups:** Protects against data loss in case of unforeseen events.

Stack: Spring Boot Stack(Java)

Front End	Angular/React.js
Backend	Java with Spring Boot
Data Base	PostgreSQL /MySQL

Prototype of the Project:

1. Login form



The image shows a login form prototype for 'BITSATHY IIPC'. The form is centered on a dark blue background. It features a white rounded rectangle containing the title 'BITSATHY IIPC' in a purple serif font, followed by the word 'Login' in a smaller purple serif font. Below this, there is a light gray rounded rectangle containing the input fields. The 'Email' field has the text 'pooja.cs11@bitsathy.ac.in'. The 'Password' field is masked with '*****'. There is a checkbox labeled 'Remember me' which is checked. A dark blue 'LOGIN' button is positioned below the input fields. Below the gray box, the word 'OR' is centered between two horizontal lines. Underneath 'OR' is a colorful Google 'G' logo. At the bottom, the text 'Don't have an account? [SignUp](#)' is displayed, with 'SignUp' being a blue underlined link.

BITSATHY IIPC

Login


Email
pooja.cs11@bitsathy.ac.in

Password

☒ Remember me

LOGIN

OR



Don't have an account? [SignUp](#)

2. Register Form

BITSATHY IIPC

SignUp

Username


Email/Phone

Password

Confirm Password

SIGNUP

OR



[Click here to Login](#)

3. Admin's view:



4. Resource person's location:

The screenshot displays the Bannari Amman Institute of Technology website. The header features the institute's logo with the tagline "Stay Ahead" and the name "BANNARI AMMAN INSTITUTE OF TECHNOLOGY". A user profile icon with the letter "P" is in the top right corner. The left sidebar contains a navigation menu with the following items: "DASHBOARD", "> ABOUT IIPC", "> INDUSTRY MoU'S", "> COMMITTEE MEMBERS", "✓ RESOURCE PERSON" (expanded), "> INTERNALS", "> EXTERNALS" (highlighted in blue), "> EVENT LIST", and a "LOGOUT" button with a circular arrow icon. The main content area shows the breadcrumb "Dashboard > Resource Person > Externals". Below this is a search bar labeled "Q Enter Location(eg:chennai)". The search results are displayed in two rows of four, each with a building icon and a label: "company 1", "company 2", "company 3", "company 4" in the first row, and "company 4", "company 5", "company 6", "company 7" in the second row.

BANNARI AMMAN INSTITUTE OF TECHNOLOGY
Stay Ahead

P

DASHBOARD

- > ABOUT IIPC
- > INDUSTRY MoU'S
- > COMMITTEE MEMBERS
- ✓ RESOURCE PERSON
 - > INTERNALS
 - > EXTERNALS
- > EVENT LIST
- LOGOUT


Dashboard > Resource Person > Externals

Q Enter Location(eg:chennai)

company 1 company 2 company 3 company 4

company 4 company 5 company 6 company 7

5. Resource person's details:

**BANNARI AMMAN**
INSTITUTE OF TECHNOLOGY

Stay Ahead


P

Dashboard > Resource Person > Externals > Company 2


count : 3

Q search


UPDATE



NAME:
COMPANY NAME:
COMPANY ADDRESS:
DESIGNATION:
DOMAIN:
MODE:
NAME OF PROGRAM:
TYPE:
REFERER:




NAME:
COMPANY NAME:
COMPANY ADDRESS:
DESIGNATION:
DOMAIN:
MODE:
NAME OF PROGRAM:
TYPE:
REFERER:



NAME:
COMPANY NAME:
COMPANY ADDRESS:
DESIGNATION:
DOMAIN:
MODE:
NAME OF PROGRAM:
TYPE:
REFERER:

6. Resource person update :



The screenshot shows a web application interface for Bannari Amman Institute of Technology. The header features the institute's logo with the tagline "Stay Ahead" and the name "BANNARI AMMAN INSTITUTE OF TECHNOLOGY". A user profile icon with the letter "P" is in the top right. The breadcrumb trail reads "Dashboard > Resource Person > Externals > Update". The main form area is a dark purple box containing several input fields: "ADD PHOTO:" with an "IMAGE" button, "NAME:", "COMPANY NAME:", "COMPANY ADDRESS:", "DESIGNATION:", "DOMAIN:", "MODE:", "NAME OF PROGRAM:", "TYPE:", and "REFFERER:". An "UPDATE" button is located at the bottom right of the form.

BANNARI AMMAN
INSTITUTE OF TECHNOLOGY

Stay Ahead

P

Dashboard > Resource Person > Externals > Update

ADD PHOTO:

NAME:

COMPANY NAME:

COMPANY ADDRESS:

DESIGNATION:

DOMAIN:

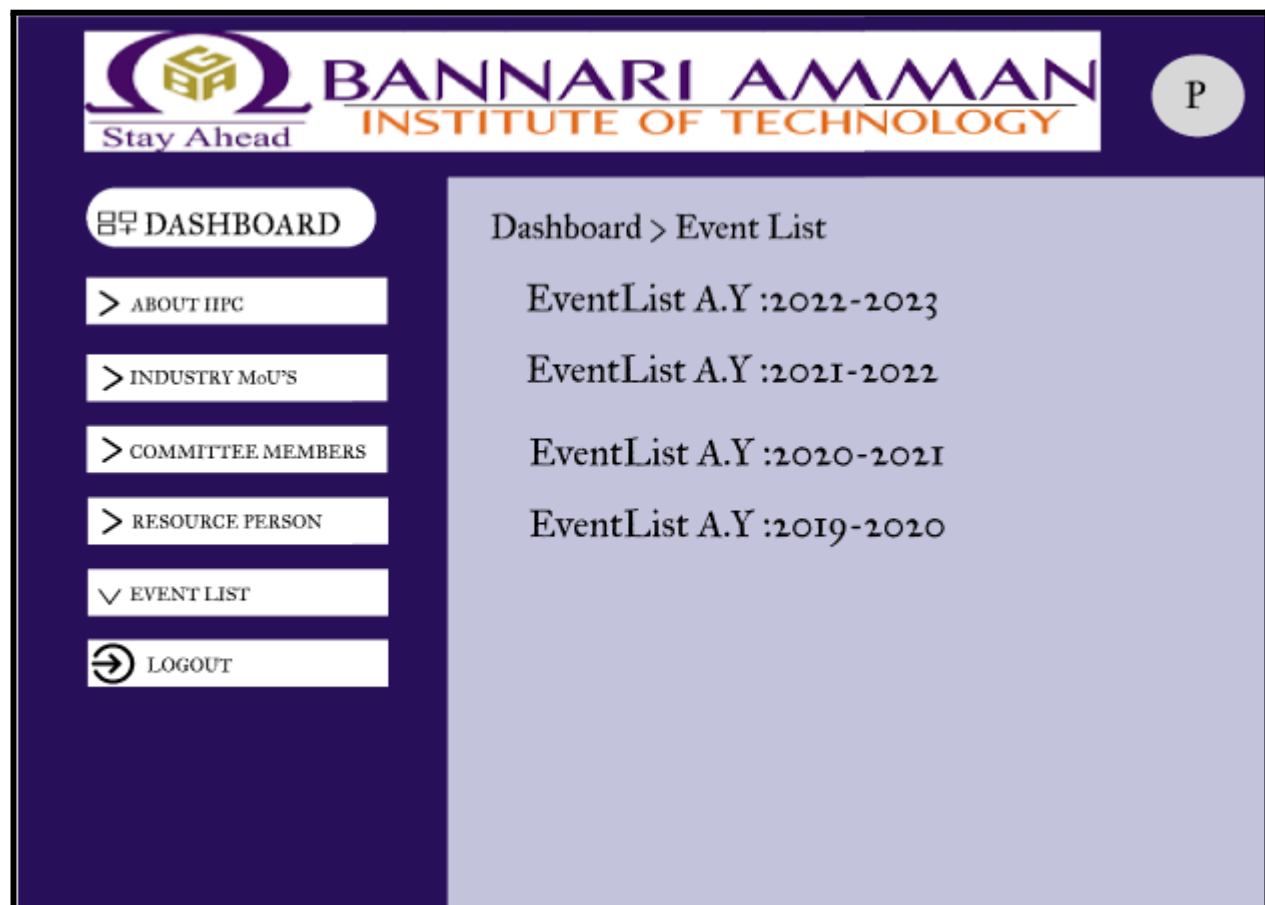
MODE:

NAME OF PROGRAM:


TYPE:

REFFERER:

7. Eventlist Academic-Year wise:



8. Datas in Eventlist:

 BANNARI AMMAN INSTITUTE OF TECHNOLOGY P								
Dashboard > Event List > EventList A.Y :2022-2023								
START DATE	NAME OF THE PROGRAMME	VENUE	RESOURCE PERSON	REFERER	DOMAIN	TYPE	DEPARTMENT	TOTAL HOURS
17/10/2022	Seminar on "Future Mobility	SEMINAR HALL 1	RP 1	R1	SOFTWARE	GUEST LECTURE	CSE, IT, AIML	8

ER Diagram:

