

# **PROBLEM STATEMENT**

## **Introduction:-**

Develop a website that would synchronise a student's academic, extracurricular, and co-curricular information in one place into a mobile application and website (a web app would be preferable). The application will be available to all IIT Kharagpur students, and they will be able to log in using their credentials (institution email ID) after registering.

Mentioned below is a list of **non-exhaustive** requirements. Each requirement has certain guidelines for the feature. The guidelines are flexible, and it is **recommended** to use your discretion while deciding the flow.

## **Suggested Screens:-**

### **1. Home Page**

Some suggestions for the home page are:-

- Login
- Calendar
- Carousel
- Recent Events

#### **1.1. Login (For Students)**

The following process should be followed for making the student login page-

- A. Enter Institute Mail ID.
- B. Enter OTP sent to the institute mail ID.
- C. Login to the account.
- D. The name and roll number shall be fetched from the student database (Google Sheet).

#### **1.2. Login (For Officials).**

The following process should be followed for making the login page for officials.-

- A. Enter Username and password
- B. The credentials are fetched and matched from the sheet containing the information of the officials (Google sheets)
- C. Log in to the account

## **2. Student Profile**

### **2.1. Your Achievements (Personalized) (Restricted).**

**2.1.1** Technology

**2.1.2** Social and Culture

**2.1.3** Sports and Games

**2.1.4** Students' Welfare

**2.1.5** Others

- A. In each section, the students should be able to download their respective certificates, if any, of the events they have participated in. TSG officials will upload the certificates.
- B. In the 'Others' section, the students will have the option to upload the certificate and description of the event they have participated in.

### **2.2. Students Grievance Form (Restricted)**

A form will be displayed, which the students will fill out if they need to register any sort of complaint/grievance.

## **3. Events (TSG)**

**3.1** Technology

**3.2** Social and Culture

**3.3** Sports and Games

**3.4** Students' Welfare

**3.5** Results

**3.5.1** Inter IIT

**3.5.2** General Championship

**3.5.3** Events

- A. Under sections (3.1-3.4), the details and posters of ongoing and upcoming events will be listed.
- B. When the event finishes, the TSG officials should have access to upload the event report, and the 'View Report' option should be available to everyone who has logged in.
- C. And after a particular time window, the event post should go into its separate archive section.

## **4. Society Point**

### **4.1 Events**

This section provides information on all the events and happenings of all the societies, clubs, fests, cells, and research groups.

### **4.2 Bill Reimbursement Portal**

#### **4.2.1 Image/Document Upload Section**

#### **4.2.2 Verification Status (By gymkhana) Section**

- A. Successfully Verified
- B. In Process
- C. Declined

#### **4.2.3 Remarks Section**

The concerned Gymkhana officials will edit this section. The suitable comments will be mentioned here. The concerned Gymkhana officials will edit this section for the student to review and make necessary changes accordingly.

## **5. News Bulletin**

The latest updates and news regarding the activities happening in the institution shall be put here. Students can visit this page to learn more about what's happening in the institution.

## **6. Students' Point**

### **6.1 Academic Point**

- A. Students may access notes, supplementary materials, previous years' question papers (can refer to MFQP), and other drive links through Academic Point.
- B. There will be further divisions made year-wise, in which '1st year' will include common study material, and in all the years except '1st year', there will be department-wise study material.

### **6.2 Career Point**

- A. This page will be divided into different fields like SDE, Quant, Data, Consulting, Finance, Core, etc.
- B. After choosing a particular field, students will be provided with materials for the respective field.

## **7. Quick Info**

### **7.1 Archive-Statistics of CDC (Restricted)**

This section should contain the data and statistics of CDC Placements and Internships separately for each year.

### **7.2 Quick Links**

A list of links shall be put here on this page related to any official websites, platforms, or useful links, for example, IIT Kgp Official Website, Technology Students' Gymkhana Website, Moodle, Welfare Group Apna Dost, etc.

### **7.3 Contacts**

On each section page - picture, name, designation, contact details will be shown.

#### **7.3.1 Current Office Bearers**

#### **7.3.2 Office Staff**

#### **7.3.3 Secretaries**

### **7.4 Hall of Residence**

- A. On this page, there will be sections devoted to each hall. Under the respective section, all the details regarding the hall of residence will be provided - About, Contact of Hall Council Members, Gallery.

### **7.5 Societies**

- A. This section would be divided into various society sections, each devoted to a particular society.
- B. Each section would contain basic information and contacts related to the respective society.

### **7.6 Faculty**

Students can access information regarding different faculty members under their respective departments. On the Faculty (Respective Department) Page, there will be a Picture, Name, Designation, Contact, and Research Area of each faculty member.

## **8. Archives (Restricted)**

### **8.1 Events**

**8.1.1** Technology

**8.1.2** Social and Culture

**8.1.3** Sports and Games

**8.1.4** Students' Welfare

Under each section, there will be a year-wise list, where the past event details will be present, along with their reports.

### **8.2 General Championship**

There will be a year-wise list, where each list item will have its respective year GC Board.

### **8.3 Inter IIT**

There will be a year-wise list, where each list item will have their respective year Inter IIT points/ranking.

## **9. Innovative Feature**

The participants are free to include any other feature other than the compulsory features stated above. They can incorporate any other innovative feature that might be significant to improve the website.

### **Other Suggested Feature of Website:**

#### **1. Notifications**

#### **User Roles:-**

1. Admin
2. TSG Officials
3. Societies
4. Student User

#### **Rules and Regulations:-** Hackathon Instructions.pdf

**Access Table:**

<b>Data</b>	<b>Admin</b>	<b>TSG Office Bearers</b>	<b>Society/Cell Governors</b>	<b>Students</b>
User Data	View and Edit	View everyone's data	View only their data	View only their data
Homepage	View and Edit	View and Edit	Can view everything but edit only the society relevant data	View
Events	View and Edit	View and Edit	Can view everything but edit only events hosted by them	View
Students' Profile	View and Edit	View and Edit	View only their data	View only their data
News Bulletin	View and Edit	View and Edit	View	View
Research	View and Edit	View and Edit	View	View
Archive	View and Edit	View and Edit	View	View
Society Point	View and Edit	View and Edit	Can view everything but edit only society relevant data	View
Statistics of CDC	View and Edit	View and Edit	View	View
Students' Point	View and Edit	View and Edit	View	View
Contact	View and Edit	View and Edit	View	View
Hall of Residence	View and Edit	View and Edit	View	View
Students' Grievance Form	View and Edit	View and Edit	-	View (only form)
Results	View and Edit	View and Edit	View	View

Quick Links	View and Edit	View and Edit	View	View
Faculty	View and Edit	View and Edit	View	View
Bill Reimbursement Portal	View and Edit	View	View	-