SOFTWARE REQUIREMENT SPECIFICATION FOR FC PORTAL

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Project ID	27
Problem Statement	FC Portal

PROBLEM STATEMENT:

Develop a portal indicating the summary of Fitness Certificate categories. Number of NO's in the corresponding FC must be displayed. Duration of FC submission is bimonthly. number of 3 consecutive NO's in the subcategory of each FC needs to be displayed and the corresponding list needs to be popped up.

DIFFICULTY OF CLIENT:

- 1) As a Staff member (Submitter), I want to submit my Fitness Certificate results online for assigned areas within a bimonthly period so that I can easily fulfill my reporting responsibility and contribute to maintaining a safe environment at the college.
- 2) As an Administrator, I want to view reports on overall Fitness Certificate compliance and identify trends in 'NO' results, so that I can prioritize maintenance efforts and ensure a safe college environment.

PURPOSE:

The FC (Fitness Certificate) portal is designed to streamline the process of managing Fitness Certificates for various categories. Through this portal, users can conveniently fill out and submit the necessary forms. Additionally, the portal will provide users to display their corresponding number NO's in the portal.Also,It will alleviate the burden and save valuable time for users.

SCOPE OF THE PROJECT:

- With this system, you can easily monitor compliance and identify potential safety concerns **Early On**.
- The portal streamlines communication by automatically highlighting areas with 'NO' results and providing contact information for corrective action.
- Overall, this Fitness Certificate Portal empowers you to maintain a safer environment.
- By making FC submissions and tracking easier, the portal helps BIT College identify and address potential safety issues before they become accidents.

BUSINESS CONTEXT:

The Fitness Certificate (FC) portal is developed for BIT College to streamline FC submissions for its various facilities. It aims to enhance safety and compliance by providing a user-friendly platform for venue Faculty to submit FCs bimonthly. The portal's monitoring features track NOs and highlight trends, enabling proactive maintenance. It ensures timely updates and compliance with

OVERVIEW OF THE PROJECT:

The proposed portal aims to streamline the process of monitoring and managing Fitness Certificates (FC) for various venues within an institution. It provides a user-friendly interface displaying summaries of FC categories along with the number of NOs recorded for each. The submission of FCs is scheduled bimonthly, ensuring timely updates. Additionally, the portal identifies instances of three consecutive NOs in subcategories of each FC, facilitating proactive intervention.

Every faculty member is required to upload venue fitness data every 15 days, enabling real-time monitoring by the head infrastructure personnel. Overall, the portal enhances efficiency in tracking venue fitness, ensuring timely maintenance and compliance with safety standards.

FUNCTIONAL REQUIREMENTS:

1. User Management:

- System shall allow creation, editing, and deletion of user accounts for admin.
- Users shall be assigned roles (Submitter, Administrator) based on their responsibilities.
- Role-based access control shall restrict user actions based on their assigned role.

2. Fitness Certificate (FC) Management:

- System shall allow defining FC categories relevant to BIT College operations (eg: Auditorium, Hostel mess, Cafeteria, EC seminar hall..etc).
- Submitters shall be able to easily submit FC results for assigned areas within a bimonthly submission period. Submission options shall include selecting 'Yes' or 'No'.
- Admin shall be able to review submitted FCs and results as 'Yes' or 'No' with the option.
- Reviewers shall have access to detailed information about each submission, including submitter, submission date, compliance.

3. Alert System:

- System shall automatically identify subcategories with a configurable number of consecutive 'NO' results (e.g., 3 consecutive 'NO's Display in the alert category).
- The system will keep track of 'NO' results for **Each Subcategory**. This allows for a more granular view of potential issues.

• If a Subcategory Receives 'NO' in Three Consecutive Bimonthly

Submissions, an will be display in the alert category). This means the system identifies areas that need immediate attention.

4. Reporting & Analytics:

- System shall allow administrators to generate reports on FC compliance. Reports may include:
- Overall compliance status for each FC category and subcategory.
- Trends in 'NO' results over time to identify recurring issues.

5. System Administration:

- Administrators shall be able to configure the alert, including the number of consecutive 'NO' results displaying it in the alert.
- System settings shall allow managing user access controls, notification preferences, and data backups/restore procedures.

6. User Interface (UI):

- The UI shall be user-friendly and cater to users with varying technical expertise.
- A consistent layout and design language should be implemented across all user roles.
- Common elements shall include a navigation bar, search bar (optional), and a help/support button.
- Each user role (Submitter, Administrator) shall have a dedicated interface tailored to their specific needs.

NON-FUNCTIONAL REQUIREMENTS

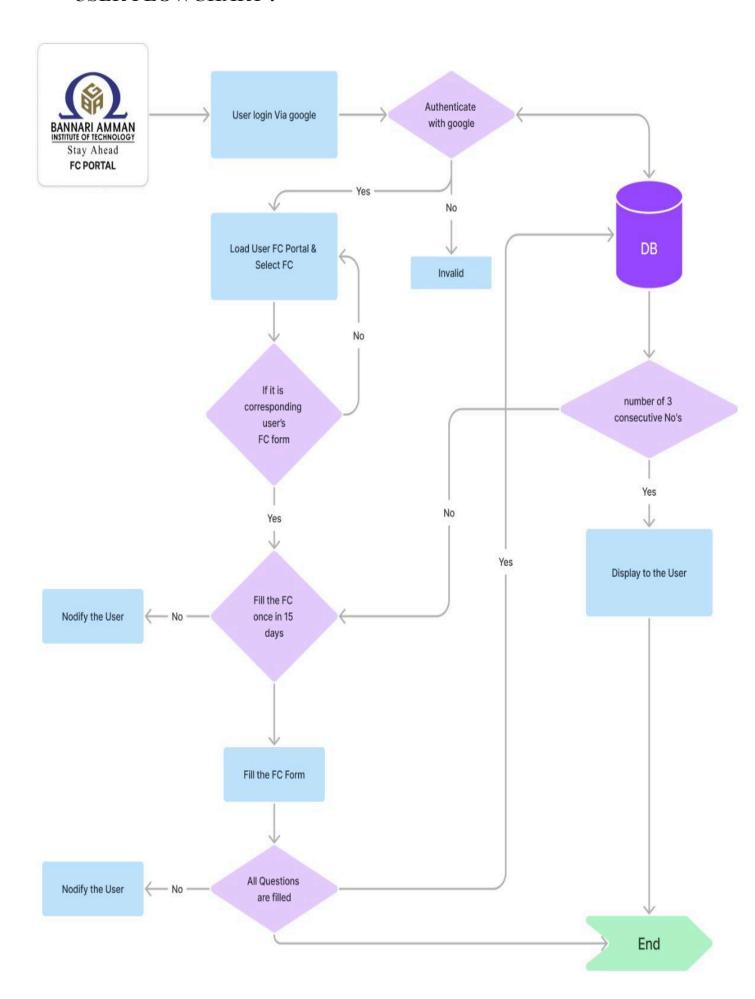
• Performance: The portal should be able to handle a large number of concurrent users and process FC submissions quickly to avoid delays.

- Reliability: The system should be available 24/7 with minimal downtime for maintenance or upgrades. It should also have backup and recovery mechanisms in place to prevent data loss.
- Usability: The portal should have a user-friendly interface that is easy to navigate, with clear instructions and guidance for users.
- Compatibility: The portal should be compatible with a range of devices and browsers to ensure accessibility for all users.

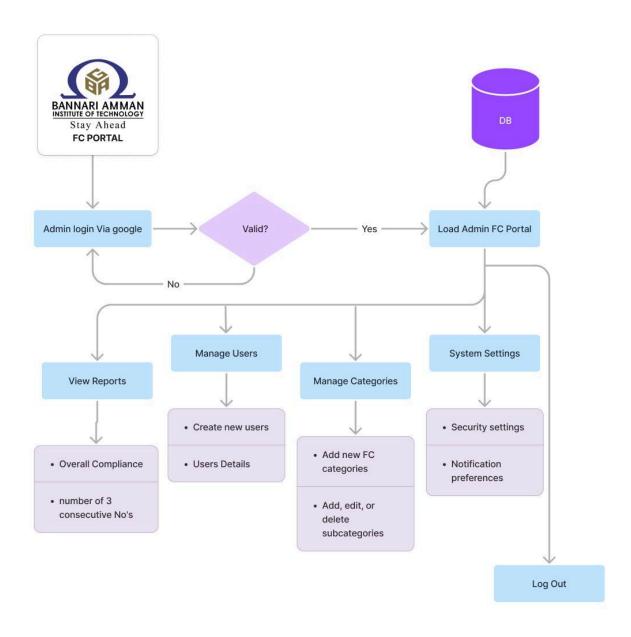
Stack:

Front End	React
Backend	Node.js with Express.js
Database	MongoDB
API	Open API

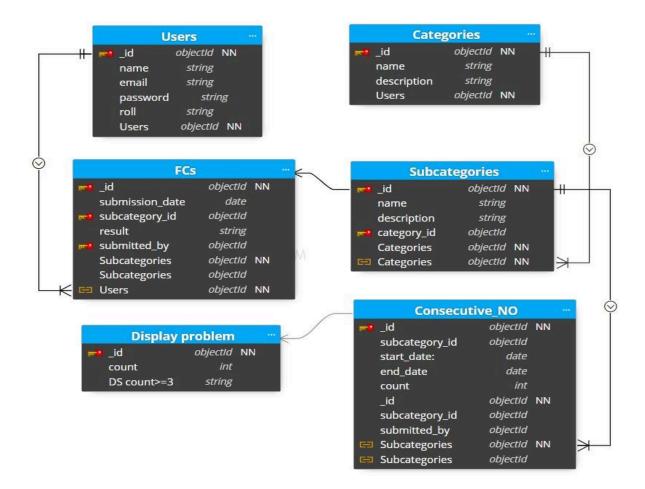
USER FLOWCHART:



ADMIN FLOWCHART:

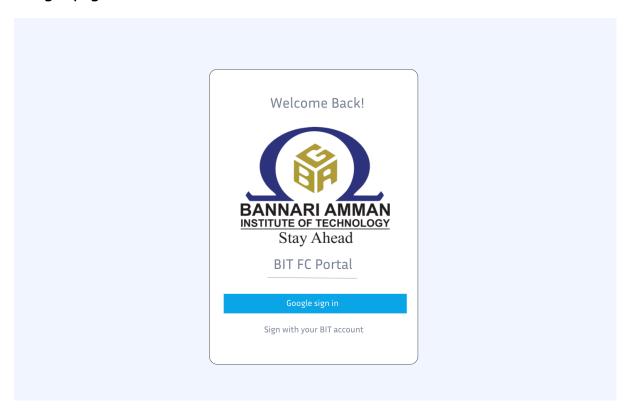


ER DIAGRAM FOR DATABASE

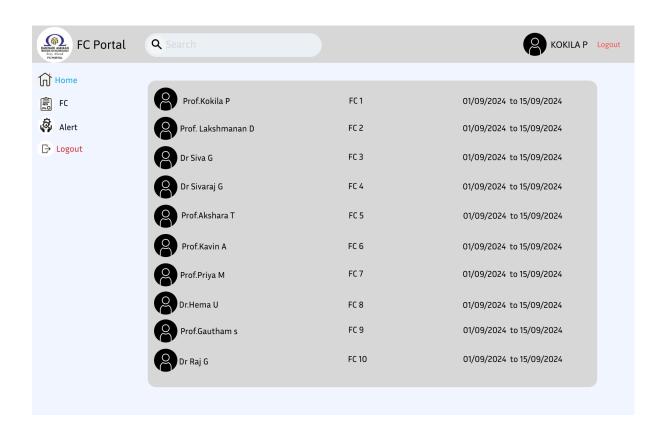


PROTOTYPE OF THE PROJECT:

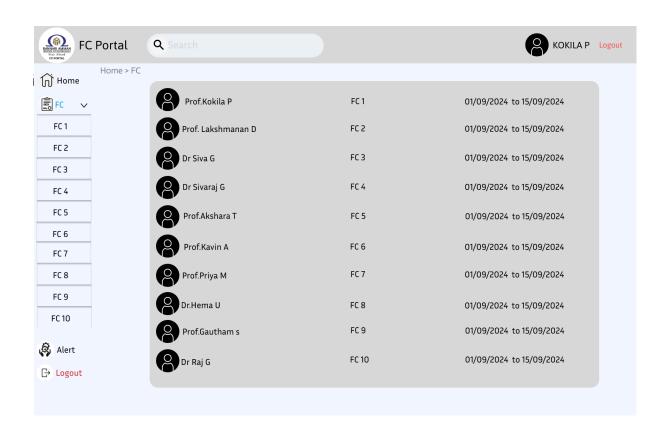
1)Login page



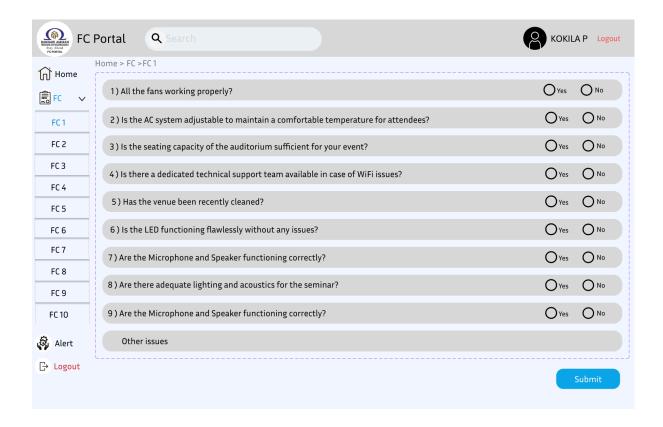
2) Home Page



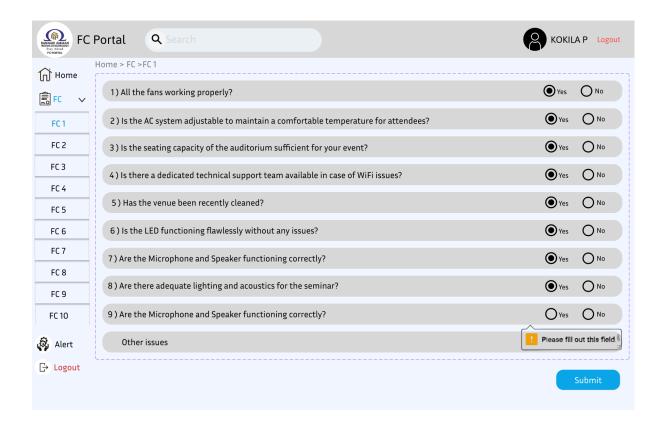
3) FC page



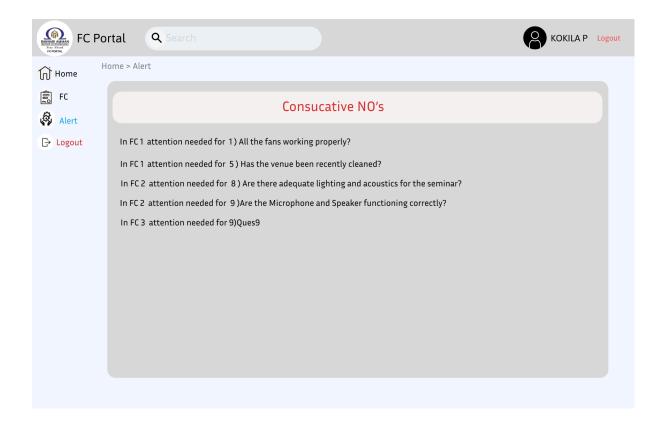
if we click FC 1



incase we submit the FC 1 without filling all questions

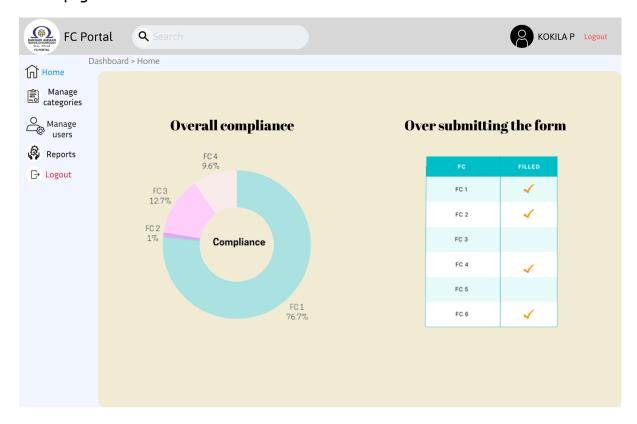


4) Alert Page



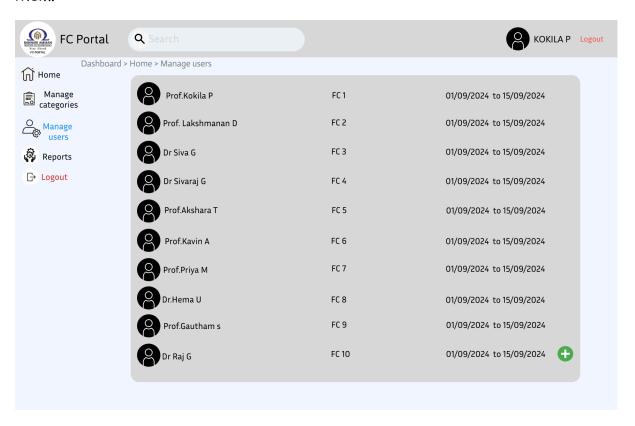
5) Admin View

Home page



Manage users page

When we click a create icon we can add a new user and give access to them.



Reports page

