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

SOFTWARE REQUIREMENT SPECIFICATION (SRS)

STUDENT NAME : KARTHIKAA S
ROLL NO : 7376222CB122
DEPARTMENT : COMPUTER SCIENCE AND BUSINESS SYSTEMS

SEAT NO : 27
PROJECT ID : 27
PROJECT TITLE : FITNESS CERTIFICATE (BIT FITNESS CERTIFICATE PORTAL)
FULL STACK COMPONENT : PYTHON STACK (AI)

TECHNICAL COMPONENTS :

Component	Tech Stack
Frontend	HTML, CSS, Javascript
Backend	Python, Django
Database	MySQL
API	OPEN API, RESTful API

1. PROBLEM STATEMENT :

Design and implement a portal to manage Fitness Certificate (FC) categories for college, displaying a summary of each category along with the number of "NO" responses in the corresponding FC. The FC submission process is bi-monthly. Additionally, the system should identify any instances of three consecutive "NO" responses within each FC category and provide a list of these occurrences.

2. INTRODUCTION :

2.1. Purpose :

This document provides a full explanation of the FC Portal. It will describe the goal and features of the system, the system's interfaces, what the system will perform, the limitations under which it must function, and how the system will respond to external stimuli.

2.2. Scope :

- This software system will serve as a portal for the Fitness Certificate (FC), enabling faculties to submit their feedback and receive their reports. From an administrative perspective, this system will provide a comprehensive analytical report for college maintenance oversight.
- The system will calculate the number of days between the start date and the end date of FC. If this duration is less than 15 days, a report cannot be generated. If this duration is more than or equal to 15 days, a report can be generated. Once a report is generated, Administrators have the ability to view and download or print the reports.

3. SYSTEM OVERVIEW :

3.1. Users :

3.1.1. Faculty :

They have the ability to submit feedback for FC categories, monitor the status of ongoing FC, review their FC history, and download or print their FC reports.

3.1.2. Admin :

Review submitted FC, manage FC categories, schedule FC questions based on duration, and access analytical dashboards for college maintenance oversight.

3.2. Features :

3.2.1. Login :

Faculty can sign in or login with their college account.

3.2.2. FC Categories :

Faculty can view all the FC Categories with their respective duration (start date to end date).

3.2.3. Fitness Form Submission :

Faculty can give their feedback in yes / no type based on the FC category. Upon completion, the report is submitted to the admin interface for review.

3.2.4. Fitness Form Status :

Faculty can view the current status of their report and also see the history in the reports activity.

3.2.5. Report Generation :

Faculty with completed FC can view, download and print their FC reports after completion of the respective duration based on FC category (15 days).

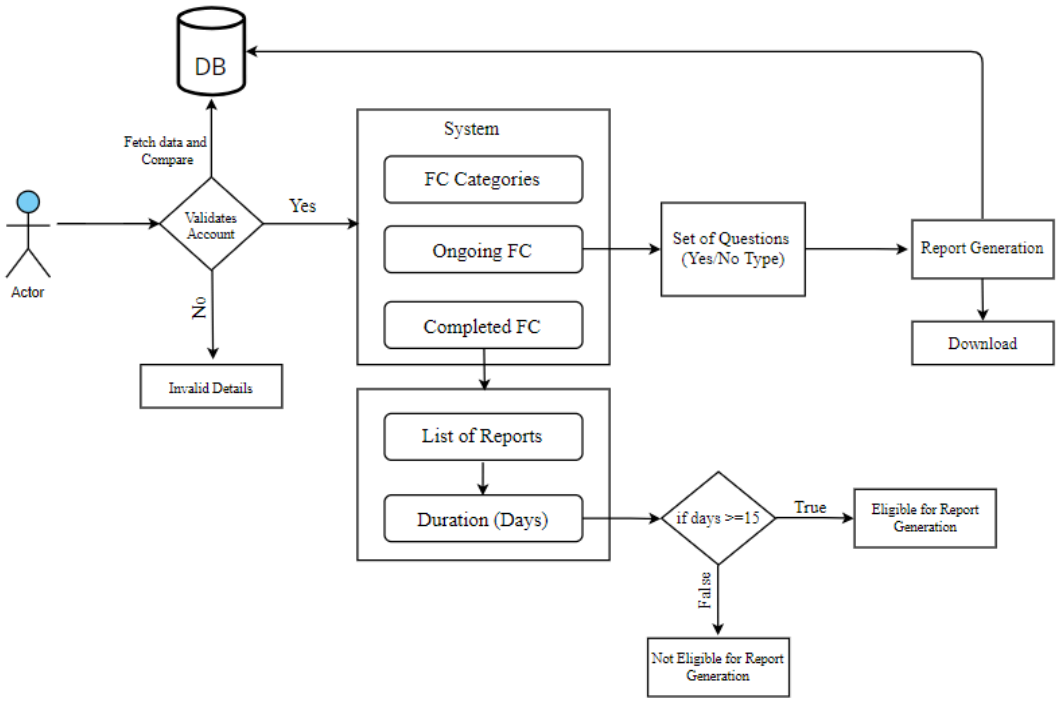
3.2.6. Admin Access :

Admin can view all submitted FC in a reports activity based on FC category, view faculty details, review and download the submitted FC.

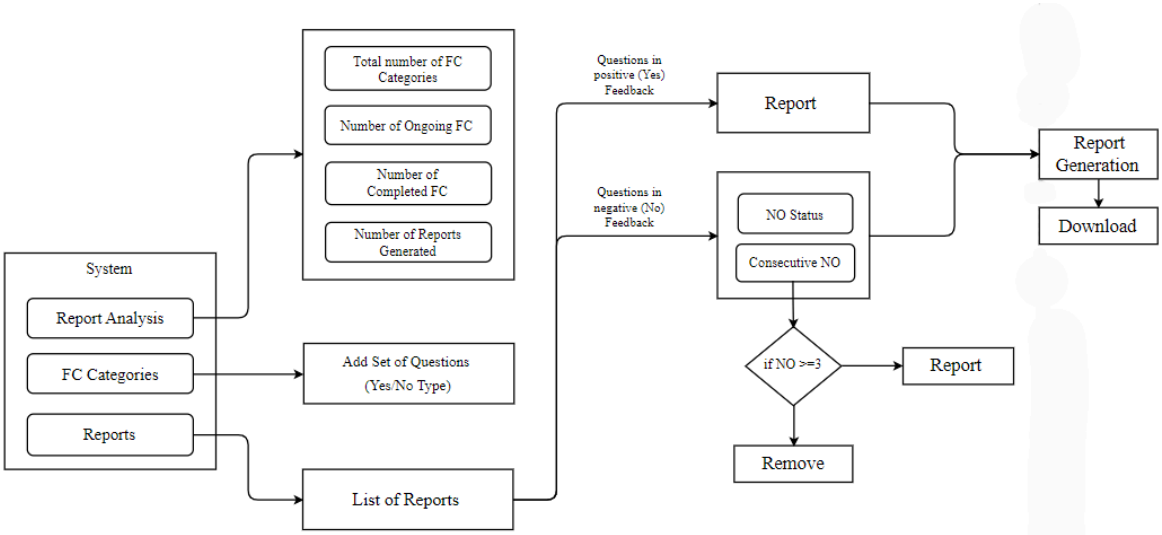
3.2.7. Admin's Analytical Report :

Admin can view the total number of FC categories, number of ongoing FC, number of completed FC, number of reports generated.

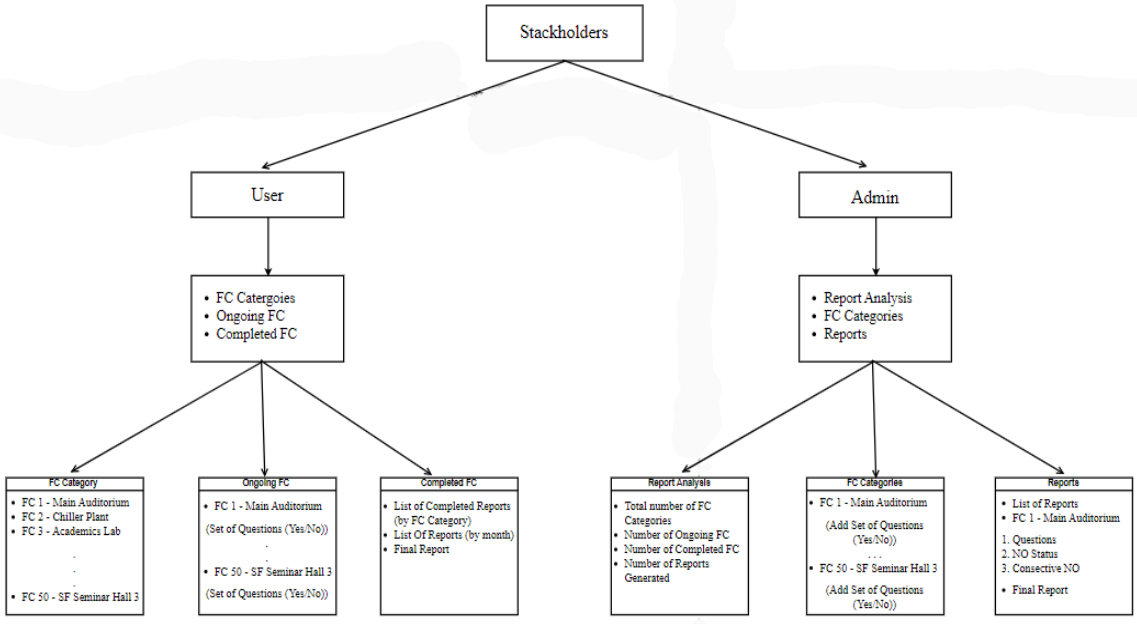
USER INTERFACE



ADMIN INTERFACE



WEBSITE DESIGN



4. FUNCTIONAL REQUIREMENTS :

- **User Management :**
    - Faculty can sign in or login to the portal.
    - Admins have access control with an analytical dashboard and dedicated features.

- **Fitness Form :**
    - Faculty can submit their FC form once in 15 days.
    - Fitness form consists of several questions in yes / no format.

- **Fitness Form Status :**
    - Faculty can view the current status of their FC form.
    - If the report is not ready then the remarks are shown.
    - Faculty can also see the history of their reports.

- **Report Generation :**
    - Faculty can view and download / print the report.
    - Final report contains:
        - Faculty details
        - Question with their respective (yes / no) feedback.
        - Question in negative (no) feedback.
        - Questions in three consecutive negative (no) feedback.

- **Admin's Dashboard :**
    - Admins can view a list of all submitted FC.
    - FC's can be filtered by category.
    - Admins can view details of each faculty and FC.
    - Admins can download / print the fitness certificate.
    - Admins can schedule the next FC duration and add questions to it.

- **Analytical Report :**
    - Admin can view the total number of FC categories.
    - Number of ongoing FC based on the category.
    - Number of completed FC based on the category.
    - Number of reports generated based on the category.

5. NON-FUNCTIONAL REQUIREMENTS :

- **Performance :**

    The system must respond to user actions within 2 seconds to ensure efficient usability and must handle a concurrent user load of at least 100 users without significant performance degradation.

- **Usability :**

    The user interface should be intuitive and user-friendly, with clear and concise error messages provided to guide users in case of input errors or system failures.

- **Reliability :**

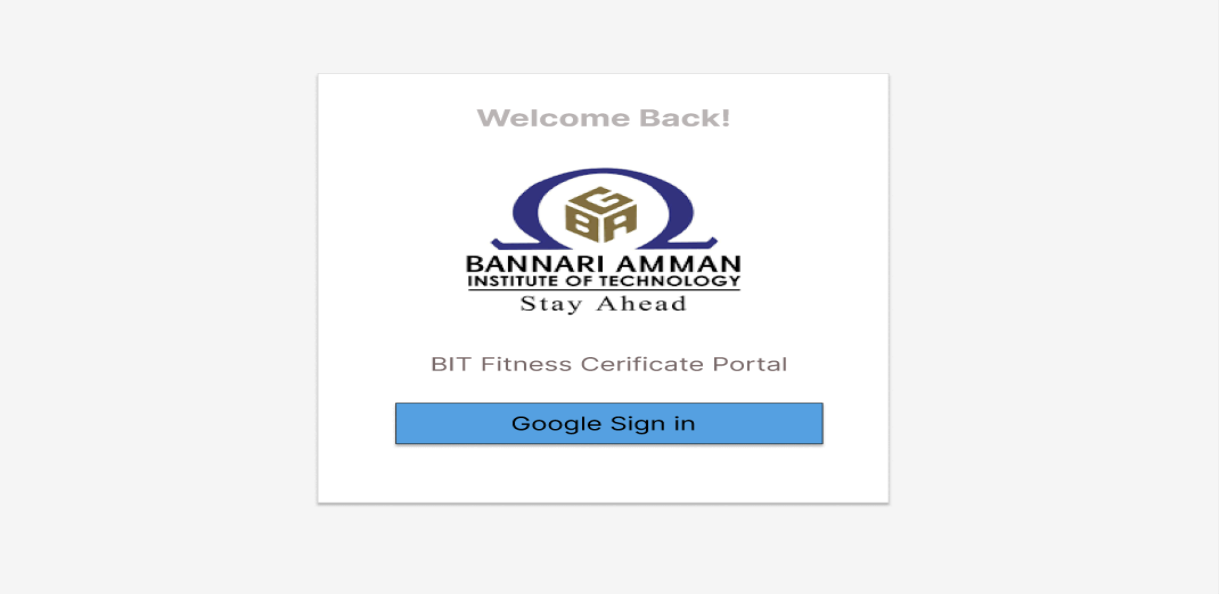
    The system should be available 24/7 with minimal downtime and should have a backup and recovery mechanism in place to prevent data loss in case of system failures or crashes.

- **Scalability :**

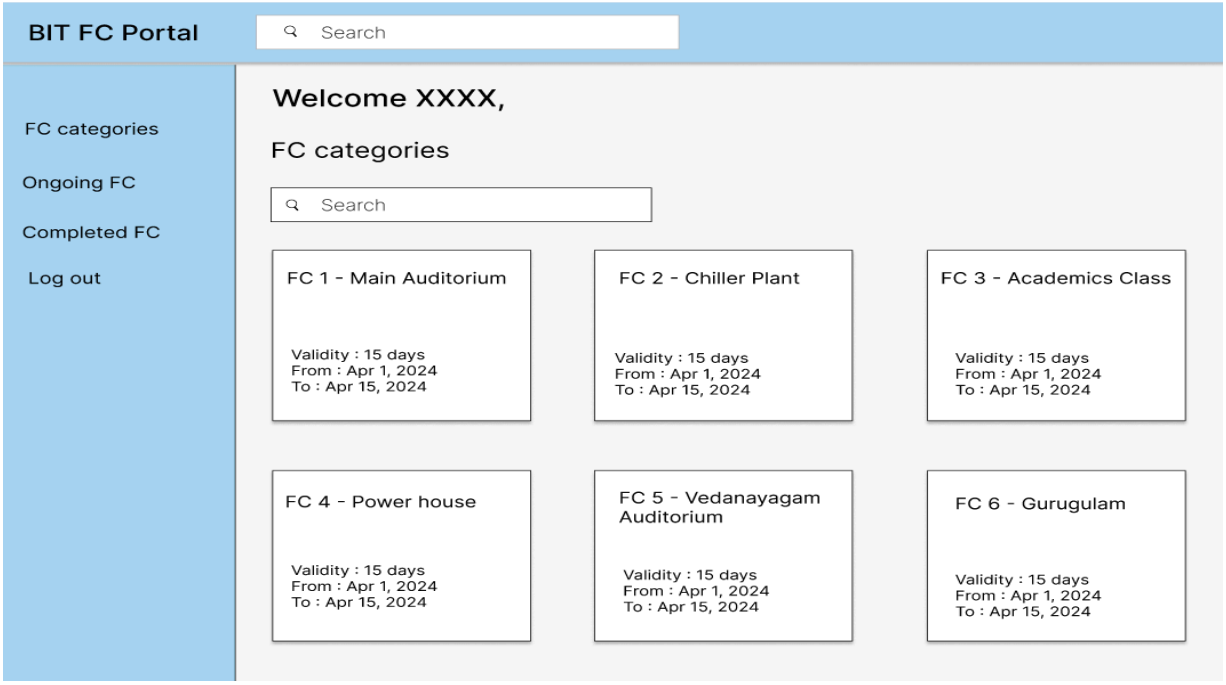
    The system should be designed to accommodate an increasing number of users and data volume over time, and it should be scalable to support additional features and functionalities as per future requirements.

PROTOTYPE :

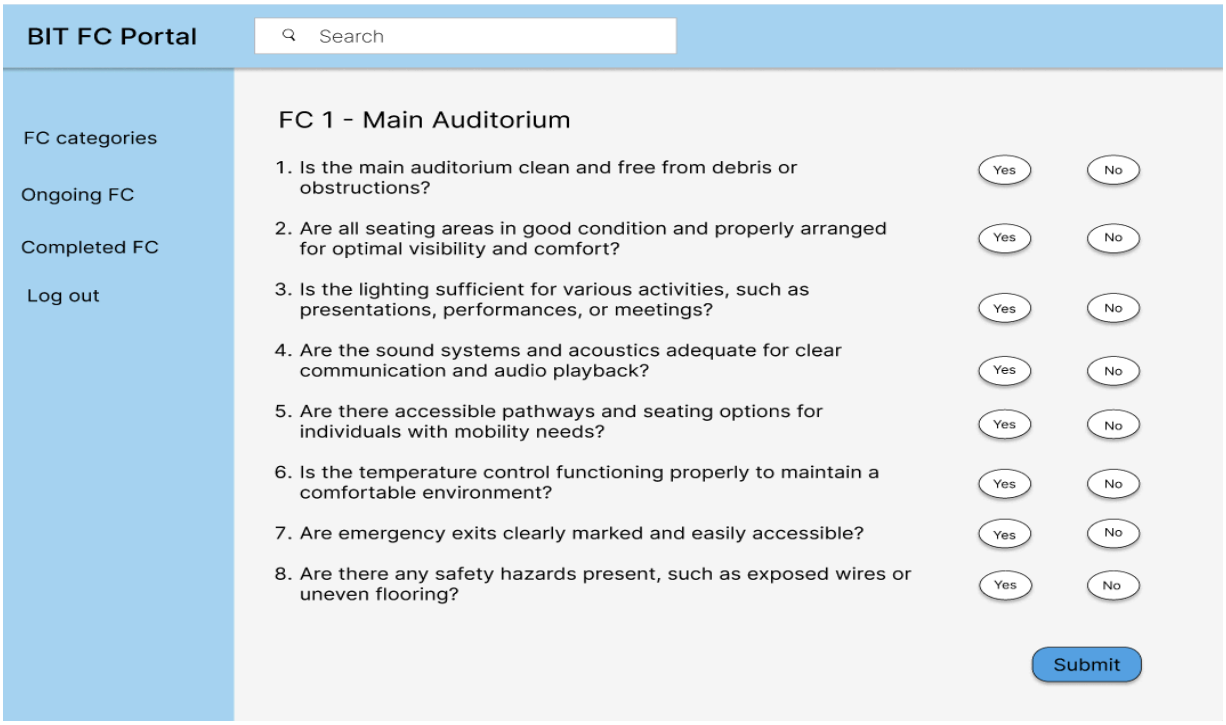
1. Login form :



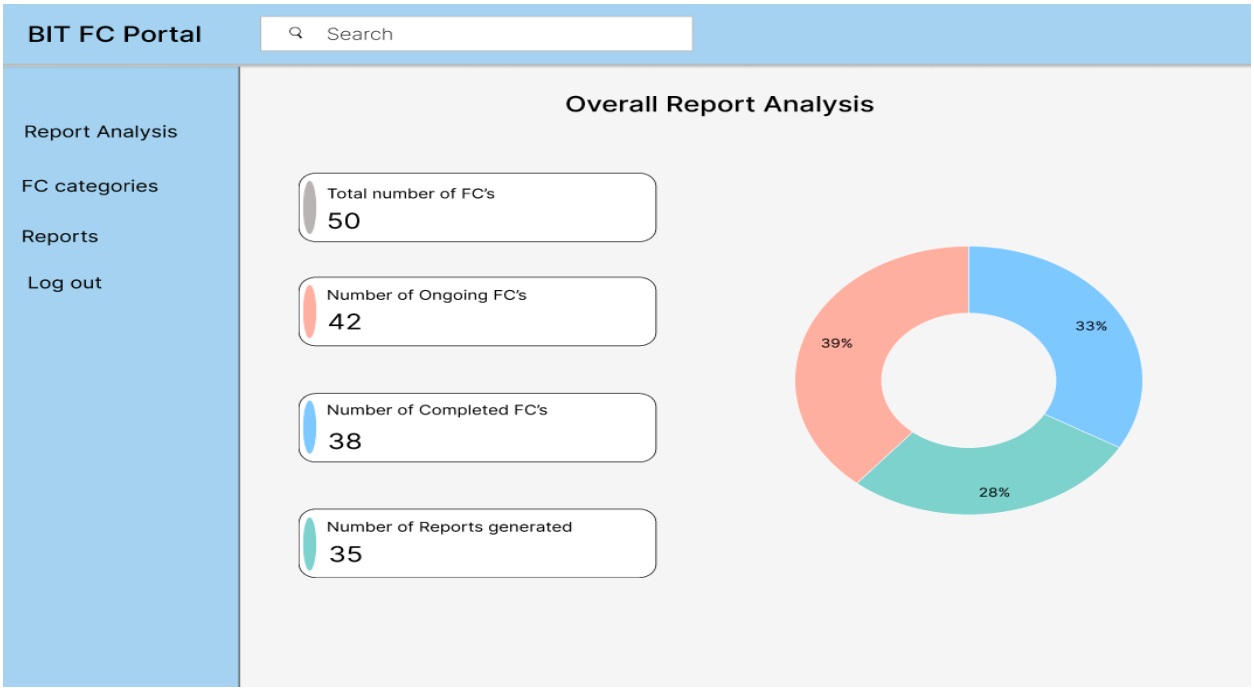
2. Faculty view :



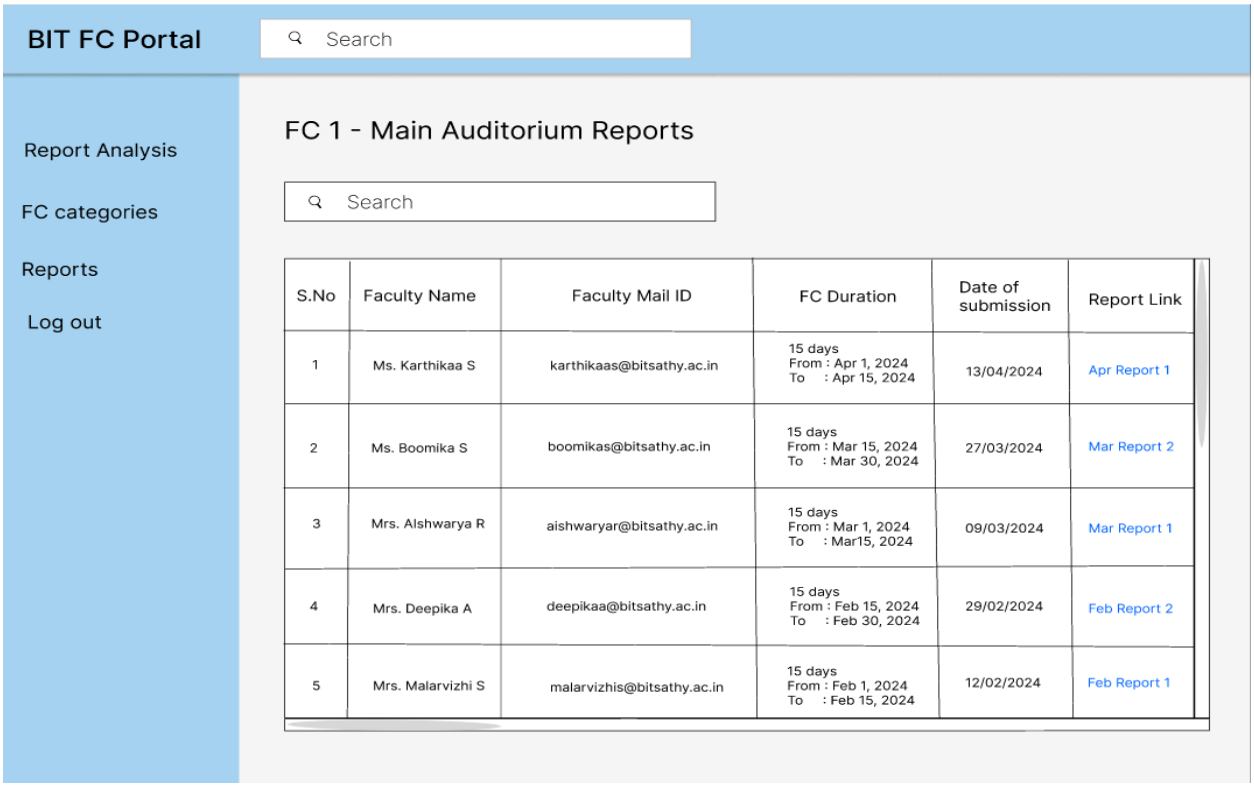
3. Fitness form :



4. Admin's view :

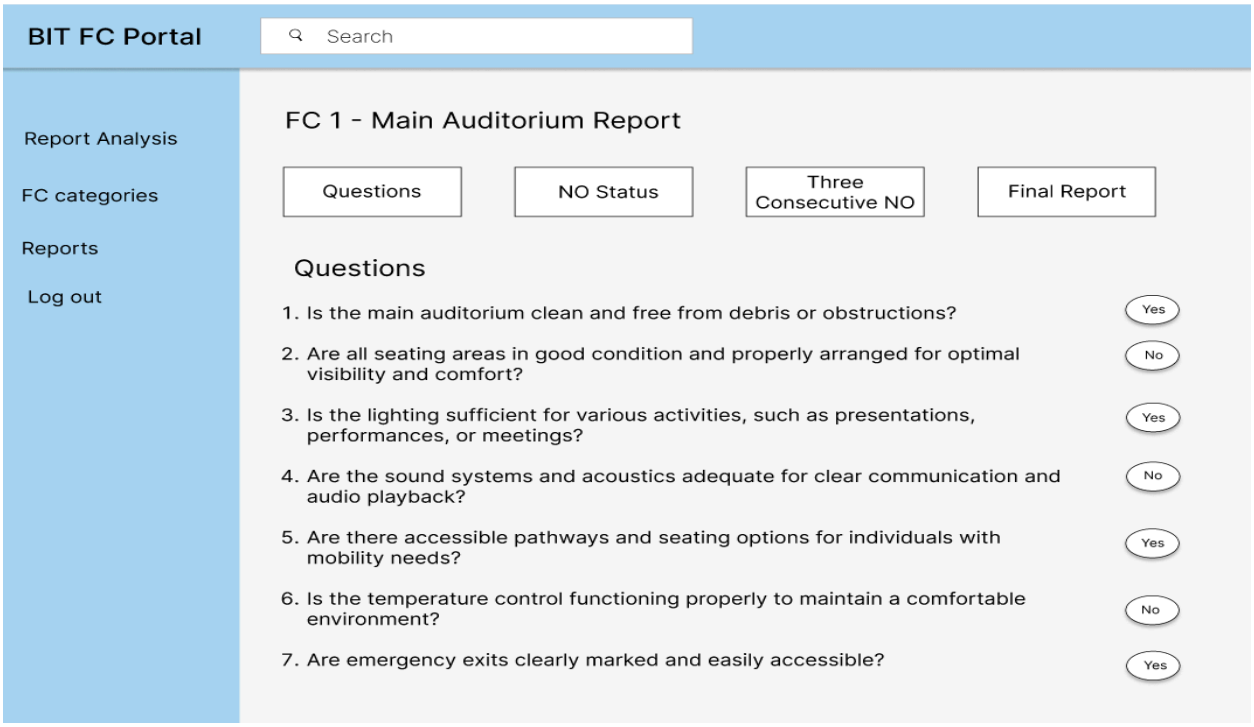


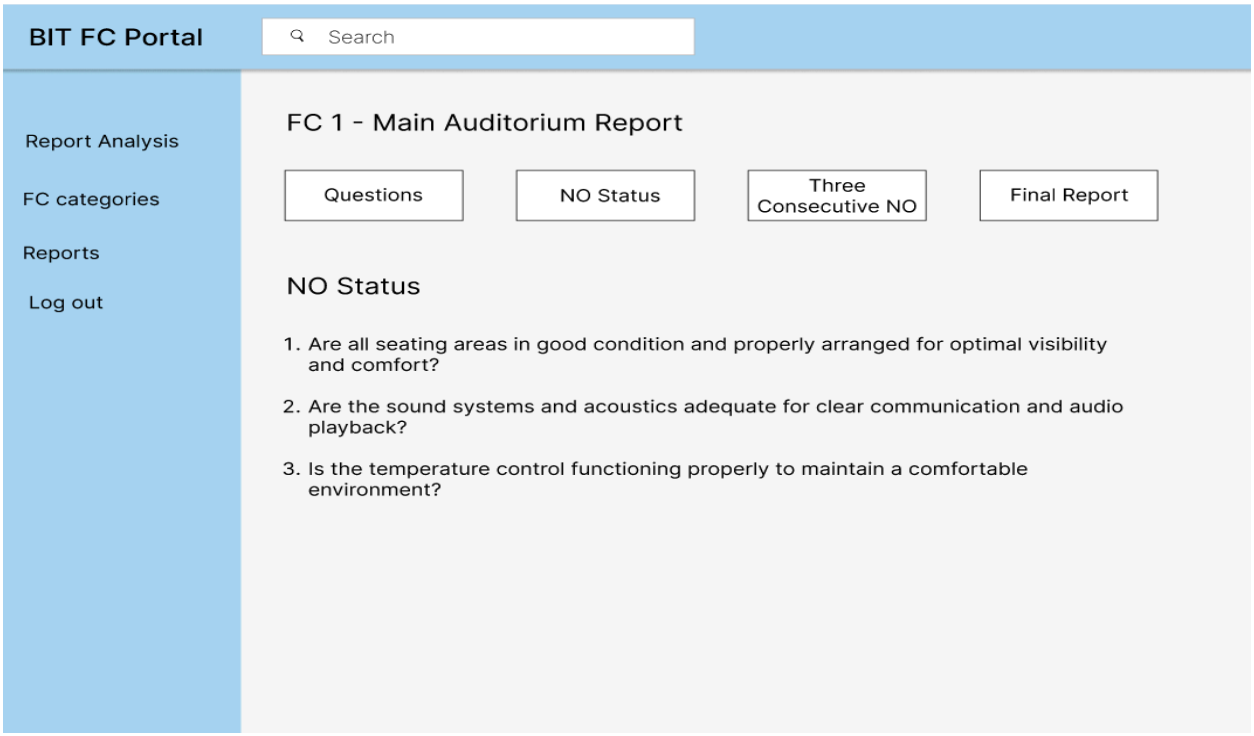
5. FC reports list :

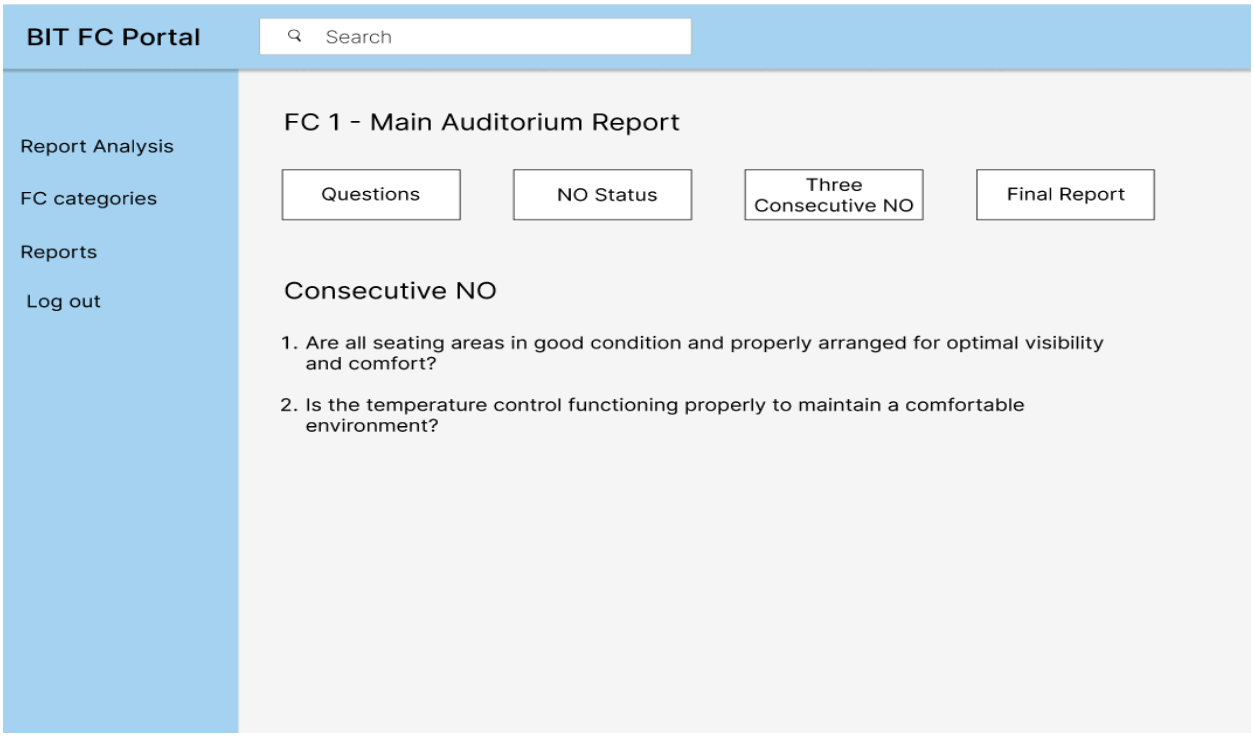


S.No	Faculty Name	Faculty Mail ID	FC Duration	Date of submission	Report Link
1	Ms. Karthikaa S	karthikaas@bitsathy.ac.in	15 days From : Apr 1, 2024 To : Apr 15, 2024	13/04/2024	Apr Report 1
2	Ms. Boomika S	boomikas@bitsathy.ac.in	15 days From : Mar 15, 2024 To : Mar 30, 2024	27/03/2024	Mar Report 2
3	Mrs. Alshwarya R	aishwaryar@bitsathy.ac.in	15 days From : Mar 1, 2024 To : Mar15, 2024	09/03/2024	Mar Report 1
4	Mrs. Deepika A	deepikaa@bitsathy.ac.in	15 days From : Feb 15, 2024 To : Feb 30, 2024	29/02/2024	Feb Report 2
5	Mrs. Malarvizhi S	malarvizhis@bitsathy.ac.in	15 days From : Feb 1, 2024 To : Feb 15, 2024	12/02/2024	Feb Report 1

6. Admin's report analysis :




BIT FC Portal
Search
Report Analysis
FC categories
Reports
Log out
FC 1 - Main Auditorium Report
Questions
NO Status
Three Consecutive NO
Final Report
NO Status
1. Are all seating areas in good condition and properly arranged for optimal visibility and comfort?
2. Are the sound systems and acoustics adequate for clear communication and audio playback?
3. Is the temperature control functioning properly to maintain a comfortable environment?


BIT FC Portal
Search
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Questions
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Three Consecutive NO
Final Report
Consecutive NO
1. Are all seating areas in good condition and properly arranged for optimal visibility and comfort?
2. Is the temperature control functioning properly to maintain a comfortable environment?

7. Final report :