Stay Ahead

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 SPECIFICATIONS

Student Name	MANOJKUMAR T
Seat Number	187
Project ID	27
Problem Statement	FITNESS CERTIFICATE

TECHNICAL COMPONENTS:

Component	Tech Stack
Frontend	ReactJS
Backend	NodeJS
Backend Framework	ExpressJS
Database	MongoDB

MODULE DESCRIPTION:

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.

INTRODUCTION:

1.1) Project Purpose:

The purpose of the project is to create a fitness certificate portal for the college to manage and track the fitness status of various venues on campus. The portal will help administrators ensure that all venues meet the required fitness criteria for safe use by students and staff.

1.2) Document Conventions:

This document follows standard software requirement specification (SRS) conventions, including clear headings, subsections, and language to describe the project requirements.

1.3) Project Scope:

The portal will allow administrators to update the fitness status of each venue twice a month. The portal will categorize venues into different categories and subcategories, each with its own fitness criteria. The portal will highlight venues or subcategories that fail to meet the fitness criteria for three consecutive times. The portal will also highlight the number of times a category of a has failed to meet the fitness criteria.

SYSTEM OVERVIEW:

2.1) Users:

Administrators: Responsible for updating the fitness status of venues.

Students: Viewers of the fitness status report..

2.2) Features:

Fitness Criteria Management: Allows admins to define fitness criteria for each category and subcategory.

Reporting: Generates reports highlighting venues or subcategories that fail to meet the fitness criteria for three consecutive times and the number of times the category has failed to meet the criteria.

Category Management: Admin can either create a new category on the interface or updating the database will create a new category. Both will provide all the existing features to the newly created category.

FUNCTIONAL REQUIREMENTS:

User Authentication:

The system must authenticate students using existing college website credentials.

User Interface:

User friendly interface for input collection.

Form Updation:

Fitness certificates

for each category should be updated twice.

NON-FUNCTIONAL REQUIREMENTS:

Security: The system should ensure that only authorized users can access and update the fitness status of venues.

Performance: The system should be able to handle a large number of venues and users without significant performance degradation.

Usability: The user interface should be intuitive and easy to use for administrators.

Reliability: The system should be reliable and available whenever administrators need to update the fitness status of venues.

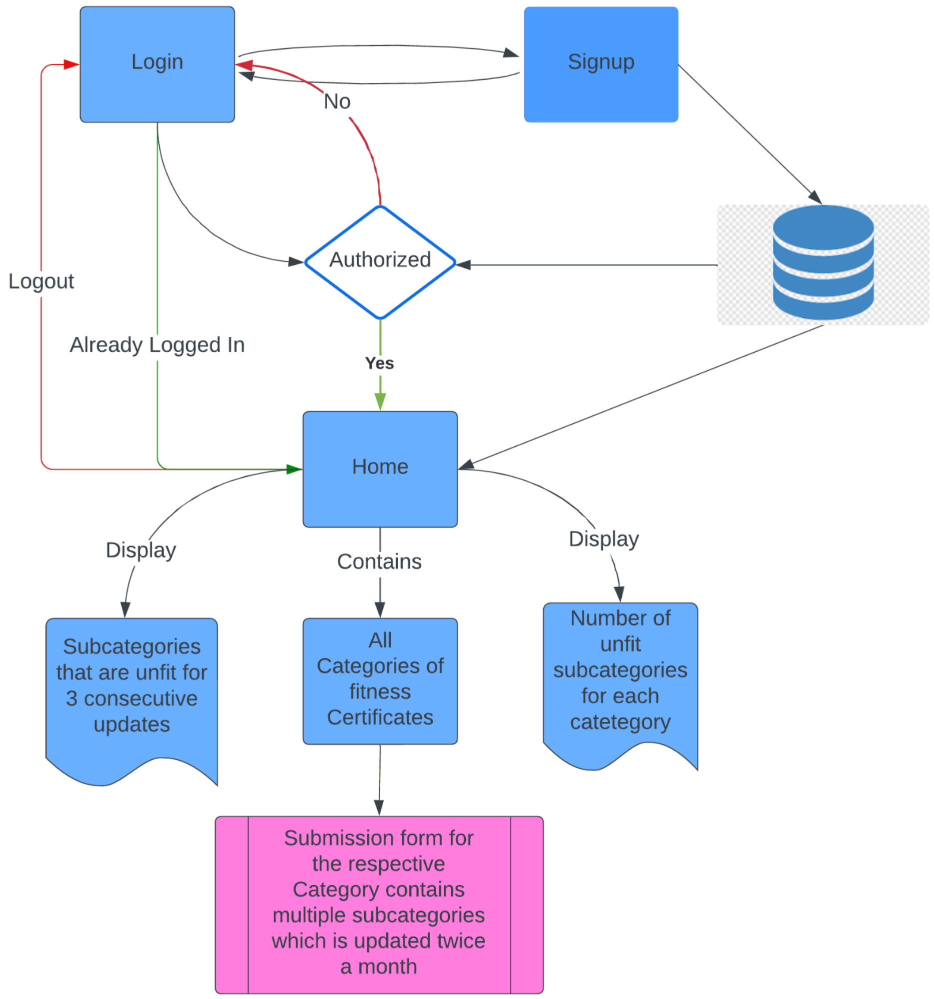
REQUIREMENTS:

Hardware Requirements: Standard server hardware to host the MERN stack application.

Software Requirements: MongoDB, Express.js, React.js, Node.js, and any additional libraries or frameworks required for the project.

Database Requirements: MongoDB for storing venue and fitness criteria data.

FLOW CHART:


Login
Signup
No
Logout
Authorized
Already Logged In
Yes
Home
Display
Contains
Display
Subcategories that are unfit for 3 consecutive updates
All Categories of fitness Certificates
Number of unfit subcategories for each catetegory
Submission form for the respective Category contains multiple subcategories which is updated twice a month

CONCLUSION:

In summary, you need to create a portal that displays information about Fitness Certificate categories, including the number of NO's (instances where criteria are not met) and the number of 3 consecutive NO's for each category, with an option to view the list of instances for the latter. The portal should also indicate that Fitness Certificates need to be submitted or renewed every two months.