

Software Requirement Specification for Certificate Verification Portal

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Project ID	36
Problem Statement	Certificate Verification Portal

1. Introduction

1.1. Purpose:

The purpose of this document is to track the students participation in a particular event and to check the Originality of the certificate submitted by the student in BIP portal

1.2. Scope of Project:

- This software system will serve as a portal for the Technical team to verify the certificate's originality, enabling students to submit their report and receive their rewards. From an administrative perspective, this system will provide a comprehensive **analytical dashboard for project oversight**.
- Administrators have the ability to approve or reject reports. Once a report is approved, students can claim the rewards and also complete their SSIG targets if the event is up to the norms of the college rules. The system will monitor the student's location from when they start the time-in timer upon entering the college premises until they leave the college. This software

system will enable the GeoTag Camera only during the days of OD approval, allowing users to take photos with it but not permitting the uploads of photos from other camera apps.

2. System Overview:

2.1. Users:

1. Students:

They have the ability to submit their report for approval, upload relevant project documents and photos, monitor the status of their application and can view the OD details

2. Admins:

The administrator can review submitted reports, approve or reject applications with remarks, and access location details, GeoTag photos, as well as information on when users entered and exited the event. Additionally, they can utilize analytical dashboards for project oversight.

2.2. Features:

1. Login and registration:

Students can login with their existing account .

2.Report Submission:

Students can input relevant details regarding their project application including GeoTag photo ,time-in and time-out details and any necessary attachments. Upon completion, the application is submitted to the admin interface for review and further processing

3. Application Status:

Students can view the current status of their application and also see the history logs.

4. On-Duty Details:

Student with approved OD is able to access the GeoTag Camera and location details

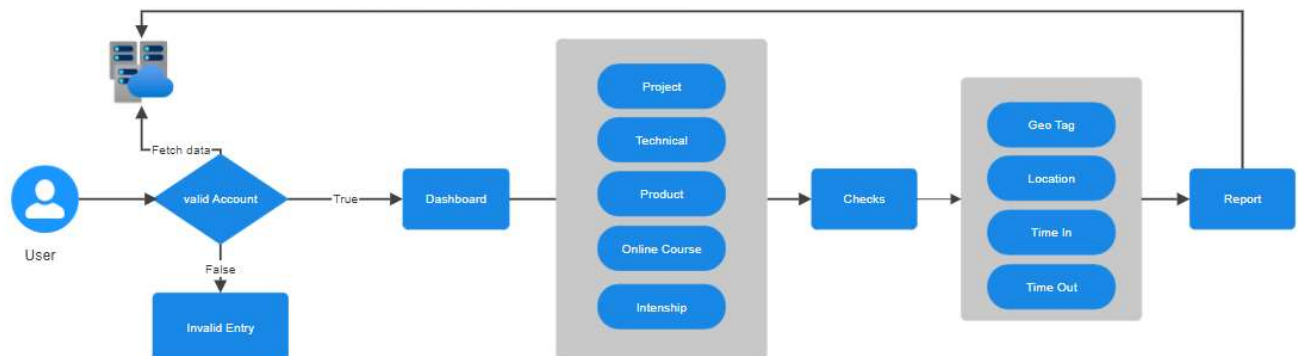
5. Admin Access:

Admin can view all submitted Event reports in a category of projects, view application details, approve or reject the application with suitable remarks.

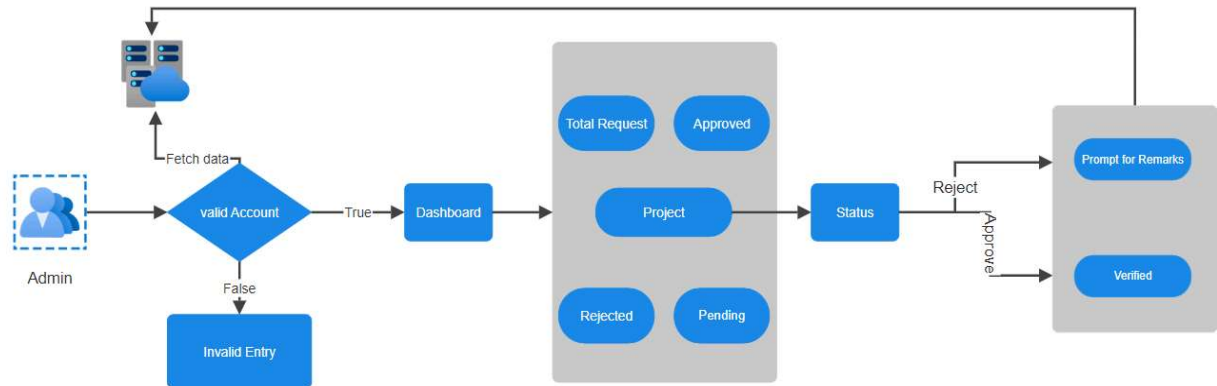
6. Admin's Analytical Dashboard:

Admin can view the total number of report approval requests, number of reports Accepted and Rejected and also the Pending reports.

User's Interface:



Admin's Interface:



3. System Requirements Specification:

3.1 Functional Requirements:

- **User Management:**

- Students can login.
- Admin have the authority to approve or reject project reports.
Additionally, they possess access control through an analytical dashboard, along with specialized features.

- **Certificate Verification Software System:**

- Students can submit report with appropriate details
- Report form contains:
 - GeoTag photo
 - Location
 - Time-in
 - Time-out

- **Report Status:**

- Students can view the current status of their report
- If the report is rejected then the remarks is shown

- Students can also see the logs of their reports.
- **On-Duty Details(After OD Approval):**
 - Students with approved OD can access and upload the GeoTag photo ,and can get their location of the event for their report submission.
- **Admin Dashboard:**
 - Admins can view a list of all submitted repots.
 - Admins can view details of each report.
 - Admins can approve or reject reports with suitable remarks.
- **Analytics Dashboard:**
 - Admin can view the total number of reports by its category
 - Admins can view the tally of approved and rejected reports, as well as the count of pending requests.

3.2. Non-Functional Requirements:

- **Performance:** The system must promptly respond to user interactions within a 2-second timeframe to ensure efficient usability. It should also manage a concurrent user load of at least 100 individuals without experiencing significant performance degradation.
- **Security:** All user data must undergo encryption both during transmission and while stored. Access to sensitive functionalities should only be granted to authorized admin users via secure authentication mechanisms.
- **Usability:** The user interface should boast intuitiveness and user-friendliness. It must provide clear and concise error messages to assist users in navigating input errors or system failures effectively.
- **Reliability:** The system must function with minimal downtime. Additionally, it should incorporate a backup and recovery mechanism to safeguard against data loss in the event of system failures or crashes.

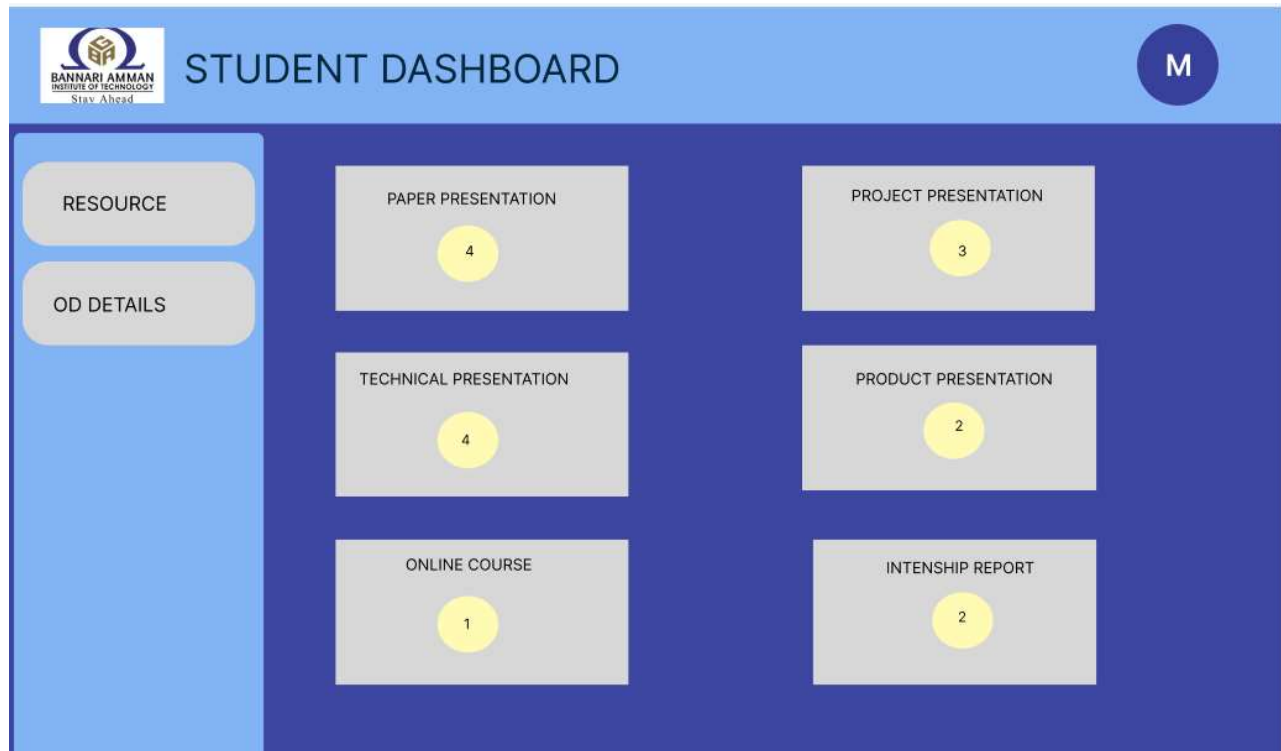
- **Scalability:** Designed to accommodate a growing user base and increasing data volume over time, the system should be scalable to support additional features and functionalities as required in the future.

Prototype of the Project:

1. Login form



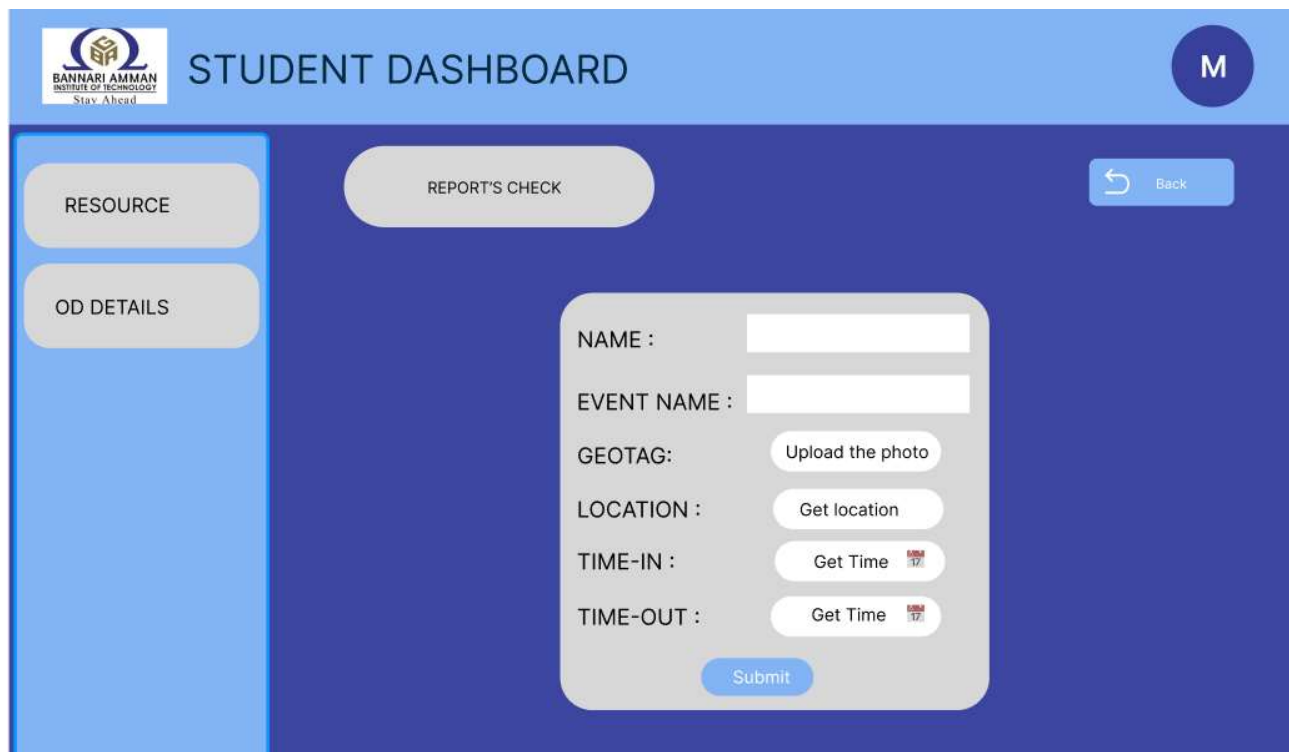
2. Student's view:



The dashboard features a blue header with the Bannari Amman Institute of Technology logo and the text "STUDENT DASHBOARD" on the left, and a circular profile icon with the letter "M" on the right. A left sidebar contains two buttons: "RESOURCE" and "OD DETAILS". The main content area displays six presentation categories, each with a yellow circular indicator showing a count: "PAPER PRESENTATION" (4), "PROJECT PRESENTATION" (3), "TECHNICAL PRESENTATION" (4), "PRODUCT PRESENTATION" (2), "ONLINE COURSE" (1), and "INTERNSHIP REPORT" (2).

Category	Count
PAPER PRESENTATION	4
PROJECT PRESENTATION	3
TECHNICAL PRESENTATION	4
PRODUCT PRESENTATION	2
ONLINE COURSE	1
INTERNSHIP REPORT	2

3. Report form:



The report form interface includes the same header and sidebar as the dashboard. It features a "REPORT'S CHECK" button and a "Back" button with a return arrow. The form fields are: "NAME :" with a text input, "EVENT NAME :" with a text input, "GEOTAG:" with an "Upload the photo" button, "LOCATION :" with a "Get location" button, "TIME-IN :" with a "Get Time" button showing a clock icon, and "TIME-OUT :" with a "Get Time" button showing a clock icon. A "Submit" button is located at the bottom of the form.

REPORT'S CHECK


Back


NAME :

EVENT NAME :


GEOTAG:

LOCATION :

TIME-IN : 

TIME-OUT : 

4.Od Details:



STUDENT DASHBOARD

M

RESOURCE

OD DETAILS

OD DETAILS

NAME :MOHANA PRAVEEN

EVENT NAME :YAGAM

FROM DATE:12/03/2024

TO DATE13/03/2024


TIME-OUT :6:00AM

TIME-IN :9:00PM

STATUSAPPROVED

Back

5. Activity page:



STUDENT DASHBOARD

M

RESOURCE

OD DETAILS

PAPER PRESENTATION REPORT

TAC ID	NAME	ROLL NO	TITLE	EVENT NAME	FROM DATE	TO DATE	MODE OF PARTICIPATION	IQAC VERIFICATION
15	MOHANA PRAVEEN	7376222IT197	MAZE ROVER	YUGAM	30/04/2024	30/04/2024	OFFLINE	INITIATED
15	MOHANA PRAVEEN	7376222IT197	MAZE ROVER	YUGAM	30/04/2024	30/04/2024	OFFLINE	INITIATED
15	MOHANA PRAVEEN	7376222IT197	MAZE ROVER	YUGAM	30/04/2024	30/04/2024	OFFLINE	INITIATED
15	MOHANA PRAVEEN	7376222IT197	MAZE ROVER	YUGAM	30/04/2024	30/04/2024	OFFLINE	INITIATED
15	MOHANA PRAVEEN	7376222IT197	MAZE ROVER	YUGAM	30/04/2024	30/04/2024	OFFLINE	INITIATED
15	MOHANA PRAVEEN	7376222IT197	MAZE ROVER	YUGAM	30/04/2024	30/04/2024	OFFLINE	INITIATED
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15	MOHANA PRAVEEN	7376222IT197	MAZE ROVER	YUGAM	30/04/2024	30/04/2024	OFFLINE	INITIATED
15	MOHANA PRAVEEN	7376222IT197	MAZE ROVER	YUGAM	30/04/2024	30/04/2024	OFFLINE	INITIATED
15	MOHANA PRAVEEN	7376222IT197	MAZE ROVER	YUGAM	30/04/2024	30/04/2024	OFFLINE	INITIATED
15	MOHANA PRAVEEN	7376222IT197	MAZE ROVER	YUGAM	30/04/2024	30/04/2024	OFFLINE	INITIATED
15	MOHANA PRAVEEN	7376222IT197	MAZE ROVER	YUGAM	30/04/2024	30/04/2024	OFFLINE	INITIATED
15	MOHANA PRAVEEN	7376222IT197	MAZE ROVER	YUGAM	30/04/2024	30/04/2024	OFFLINE	INITIATED
15	MOHANA PRAVEEN	7376222IT197	MAZE ROVER	YUGAM	30/04/2024	30/04/2024	OFFLINE	INITIATED
15	MOHANA PRAVEEN	7376222IT197	MAZE ROVER	YUGAM	30/04/2024	30/04/2024	OFFLINE	INITIATED
15	MOHANA PRAVEEN	7376222IT197	MAZE ROVER	YUGAM	30/04/2024	30/04/2024	OFFLINE	INITIATED

Back

6. Admin's View:



7. Approval Page :

