

Software Requirement Specifications

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Seat No.: 12

Project Id: 12

Project Title: Infra Audit Analysis Report Generator

1. TECHNICAL COMPONENTS:

Components	Technical Stack
Front End Tools	HTML, CSS, and JavaScript
Back End Tools	Django, Python
Database Tools	MySQL
API	Open API

2. PROBLEM STATEMENT:

The lack of a system to organize the process of assigning auditing tasks and the communication between the auditor and the head who assigns the task. For instance, errors resulting from missing data in reports may compromise the accuracy of the audit analysis. Additionally, manual communication between the auditor and the head might lead to inefficiencies and time-consuming interactions. The overwhelming responses from each audit have to be analyzed and reported manually.

- **Incorrect Generation of Report**: Missing data or two while generating the report may result in errors when generated manually.
- Ineffective Communication: The communication between the auditor and the head is done manually which may be ineffective and time-consuming.
- Complex Processes: The entire process becomes complex once the audit forms from various sources are collected and analyzed for results.
- Task Assignment and Communication: Implement a task assignment module with automated notifications and real-time updates between auditors and administrators to streamline the workflow and reduce manual errors.
- Report Generation: Introduce data validation checks and automated report generation to ensure completeness and accuracy, reducing the risk of missing data in reports.

3. PROJECT OVERVIEW:

3.1. Purpose:

To create a portal that can effectively organize and regulate the task generation process and follow up with the auditing progress. A platform to also automate the process of generating reports.

- Task Assignment and Progress Monitoring: Extend the system to provide real-time progress tracking and notifications for auditors, improving transparency and accountability.
- Visualization Dashboard: Incorporate a visual analytics dashboard for administrators to gain insights from auditing data, enabling data-driven decision-making.

3.2. Scope:

This system is aimed to aid the Infrastructure team with auditing tasks.

- This system enables the administrator of the Infrastructure team to assign tasks and monitor the progress of the auditing tasks. It also enables them to view the auditing form submitted by the auditors and download the generated reports that contain the analysis needed.
- The auditors are notified of their auditing tasks and the form is readily available in the portal, so filling out and updating the proof becomes easy and remote. The status of work is communicated to the administrator.

3.3. Business Context:

This portal will help the Infrastructure team conduct effective auditing that in turn aids in the maintenance of the proper infrastructure of our college. The primary target audience includes the Infrastructure team and the auditors decided by the Infra team.

3.4. Users:

- Admin: Assigns auditing tasks and follows the progress. Once the task is completed, download the generated report. Gets to see a dashboard of visualizations regarding the task.
- User: Here the auditors are the users. They use this platform to be notified of their tasks. Used to upload proof and update the work progress.

4. SYSTEM OVERVIEW:

4.1. Considerations:

- The Username used for login is the official mail ID (bitsathy mail ID)
- The auditor's details are given and updated in the database.
- All the users have access to a good internet connection.

4.2. Functional Requirements:

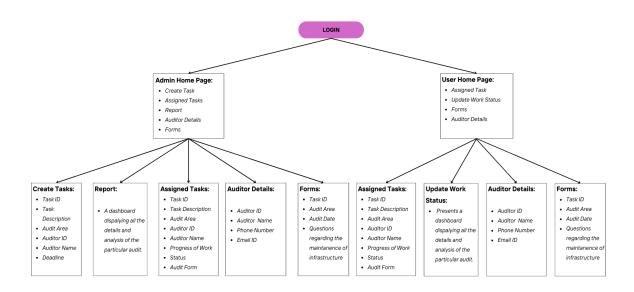
- Auditor Details.
- The task is to be assigned by the admin.
- Details to be filled in by the auditor in the audit form.
- A model to analyze the data and generate the report.

4.3. Non Functional Requirements:

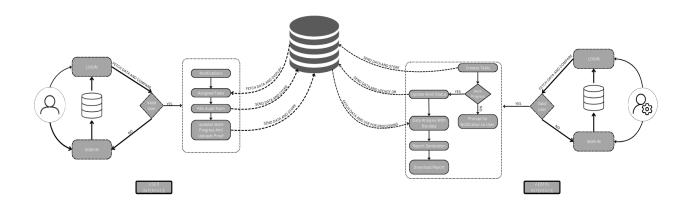
- A portal that has a user-friendly UI and is compatible with any browser.
- The system should have a performance that can process all the data and provide the results in a short time.

5. DIAGRAMMATIC REPRESENTATIONS:

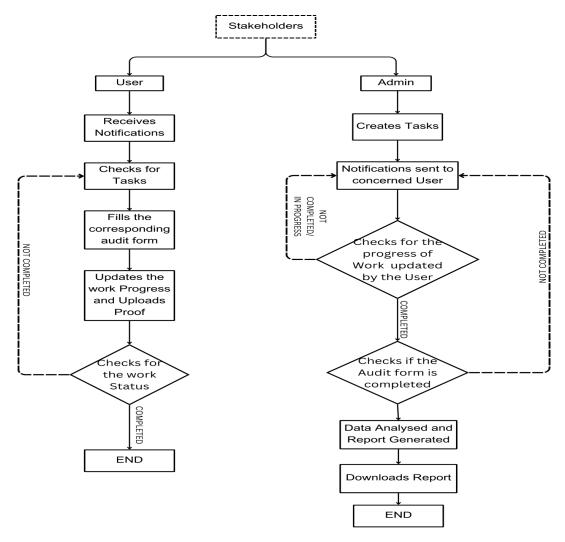
5.1. Website Design:



5.2. Project Flow:

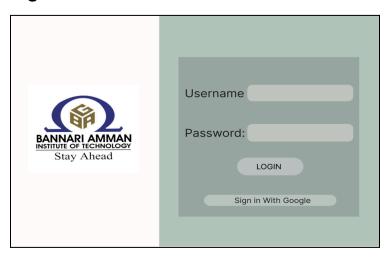


5.3. Workflow:



6. PROTOTYPE:

6.1. Login Page:



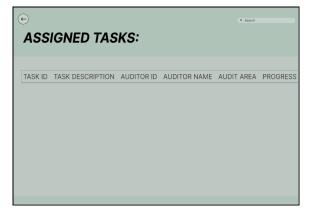
6.2. Admin and User Home Page:



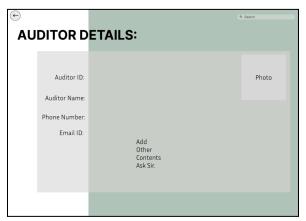


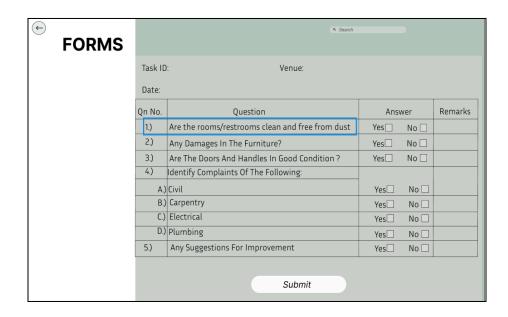
6.3. Features provided for the Admin:











6.4. Features provided for the User:

