Student name: KARTHIKA U

Seat No: 104

Project ID: 24

Project title: STUDENT SATISFACTION SURVEY

TECHNICAL COMPONENTS

Component	Tech stack
Frontend	React.js
Backend	Node.js , Express.js
Database	MongoDB
API	OpenAPI

IMPLEMENTATION TIMELINE

Phase	Deadline	Status	Notes
Stage 1	03/05/2024	Approved ▾	Planning and Requirement gathering
Stage 2		In progress ▾	Design and Prototyping
Stage 3		Not started ▾	DB Designing
Stage 4		Not started ▾	Backend Implementation
Stage 5		Not started ▾	Testing & Implementation

PROBLEM STATEMENT:

The current method of collecting feedback from students in educational institutions is inefficient and lacks a centralized approach, leading to various challenges:

- **Lack of Systematic Feedback Collection:** Currently, there is no systematic method for collecting survey from students regarding their academic experience.
- **Difficulty in Data Interpretation:** With no centralized system in place, it's challenging for college staff to interpret and analyze student feedback effectively.
- **Limited Accessibility for Stakeholders:** Staff members and administrators lack easy access to student feedback, hindering their ability to make informed decisions for improving the academic environment.
- **Time-Consuming Administrative Tasks:** Managing feedback collection manually or through separate email surveys requires significant administrative effort. Tasks such as distributing surveys, consolidating responses, and generating reports are time-consuming and prone to errors.

PROJECT FLOW:

Purpose:

The purpose of the project is to develop a web-based Student Satisfaction Survey system to streamline the feedback collection process, improve data analysis, and enhance admin access to feedback data.

Scope:

The project scope includes the development of a user-friendly web application with separate interfaces for user and admin.Features include login pages for students and admin, a dashboard for students to fill out survey details, and a dashboard for admin to view survey responses and assurance report in bar graph format.

Business Context:

The Student Satisfaction Survey website aims to address the challenges of inconsistent feedback collection, data interpretation difficulty, and limited stakeholder accessibility in educational institutions. It enables informed decision-making to enhance the academic environment and student satisfaction.

Considerations:

- All users have active college email accounts for authentication.
- Users are accustomed to using online platforms for accessing information and providing feedback.
- The system should ensure the security and privacy of user data, adhering to college policies and regulations.

Dependencies:

- Integration with college email system for user authentication:
  - ➔ Users should be able to log in securely using their college email credentials.
- Accessibility of internet-enabled devices:
  - ➔ The system should be accessible on various devices such as laptops, smartphones and tablets to ensure easy access for users.
- Consistent performance and availability of the website:
  - ➔ The system's availability and performance depend on stable hosting and reliable internet connectivity to provide uninterrupted service to users.

User Personas:

- **Student:** Provide feedback on academic experiences.
- **Admin:** View survey responses and analyze feedback data to improve the academic environment.

User Stories:

- As a student, log in to the website using their college email credentials. Once logged in, they can easily access the student satisfaction survey to provide feedback on their academic experiences.
- As an Admin, log in to the website to access the survey responses. They will be able to view the responses in a graphical format, such as bar graphs, for easy analysis. Furthermore, they will have the capability to filter survey responses based on different criteria, such as year and department.

Functional Requirements:

- **User Authentication:**
  - ➔ Students and admin staff should be able to log in to the website by only using their college email credentials.

- **Survey Access:**
  - ➔ Students should be able to access the student satisfaction survey after logging in.
  - ➔ Admin staff should have access to view survey responses after logging in.

- **Survey Submission:**
  - ➔ Students should be able to fill out the survey questions and submit their feedback.
  - ➔ Admin staff should be able to view submitted survey responses.

- **Data Visualization:**
  - ➔ Admin staff should be able to view survey responses in a graphical format, such as bar graphs, for easy analysis.

- **Filtering Survey Responses:**
  - ➔ Admin staff should be able to filter survey responses based on different criteria, such as year and department.

FLOW CHART:

Start

Login via bitsathy account

Whether Student Account/ Admin Account

if admin's account

Load Admin Dashboerd

Admin clickon Student Satisfaction Survey

Display Survey Response and Assurance Report

Click on Assurance Report

Whether 1st Year,2nd Year,3rd,4th year or overall

if overall

Display the Overall Assurance Report in bar graph

Download as PDF

if 1st year,2nd year,3rd year,4th year

Choose the semester like S1 and S2 for 1st,S3 and S4 for 2nd,S5 and S6 for 3rd,S7 and S8 for 4th year

Then choose the department

Display the Survey Response in bar graph

Download as PDF

End

if student's account

Load Student Dashboard

Select the "Student satisfaction survey" menu

Fill the survey

Redirect to google form

Submit the survey form

Survey Submitted Successfully

Click on Survey Response

Whether 1st Year,2nd Year,3rd year,4th year or overall

if overall

Display the Overall Survey Response

if 1st year,2nd year,3rd year,4th year

Choose the semester like S1 and S2 for 1st,S3 and S4 for 2nd,S5 and S6 for 3rd,S7 and S8 for 4th year

Then choose the department

Finally display the survey response

Database