



COLLEGE CODE: 9606

COLLEGE NAME: DMI ENIGINEERING COLLEGE

DEPARTMENT : COMPUTER SCIENCE ENGINEERING

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Completed the project named as Phase -V

TECHNOLOGY PROJECT
NAME: IBM-FE-AngularJS with SQL Integration

SUBMITTED BY,

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Phase 5 – Project Demonstration & Documentation

1. Final Demo Walkthrough

The Student Management System is a simple web-based application built using AngularJS for the front end and SQL for the backend database.

It allows users to:

- * Add new student records (Name, Age, Department, Email, Phone)
- * View the list of students
- * Edit or delete student details
- * Data is stored and fetched from a local SQL database

Demo Flow:

- 1. Open the app in the browser.
- 2. Fill out the form with student details.
- 3. Click "Add Student" to save data.
- 4. View all stored students in a table format.

5. Update or delete records as needed.

2. Project Report

Title:Student Management System

Technology Used:

Frontend:HTML, CSS, AngularJS

Backend:SQL (local server)

language: JavaScript

Database: MySQL or SQLite

Objective:

To create a simple and efficient interface to manage student data using AngularJS as the front-end framework and SQL for persistent data storage.

Features:

Add, view, update, delete student records

Form validation using AngularJS, Dynamic table rendering

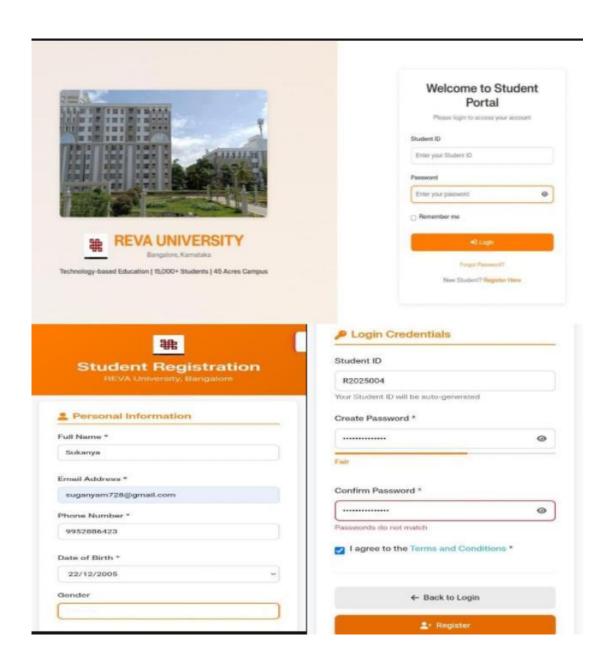
Local SQL database connection

Outcome:

A functional web app that allows seamless student record management using AngularJS and SQL.

3. Screenshots / API Documentation

Screenshots to include:



API (if applicable):

Endpoint	Method Description
`/addStudent`	POST Adds a new student record
`/getStudents`	GET Fetches all students
`/updateStuden	/:id` PUT Updates student details
`/deleteStudent	:id` DELETE Removes a student
4. Challenges &	Solutions
Challenge	Solution
Connecting Ang middleware for So	larJS with SQL Used local Node.js/Express L queries
Data not refresh and `\$apply()` fur	ng automatically Implemented AngularJS `\$scope`
Validation issue messages	Added AngularJS form validation and error
Deployment server setup	Used local server with XAMPP/Node

5. GitHub README & Setup Guide

Setup Instructions:

1. Clone the repository

Git clone https://github.com/username/student-management-system.git

2. Install dependencies (if Node used):

Npm install

- 3. Setup database:
- * Create a SQL database named `studentdb`.
- * Run `student.sql` file to create table structure.
- 4. Start local server

Node server.js

- 4. Open 'index.html' in your browser to view the app.
- 6. Final Submission (Repo + Deployed Link)

GitHub Repository: https://github.com/m-sukanya/NM_phase5.git

Deployed Link (if any): https://m-sukanya.github.io/NM_phase5/