Full Stack Project

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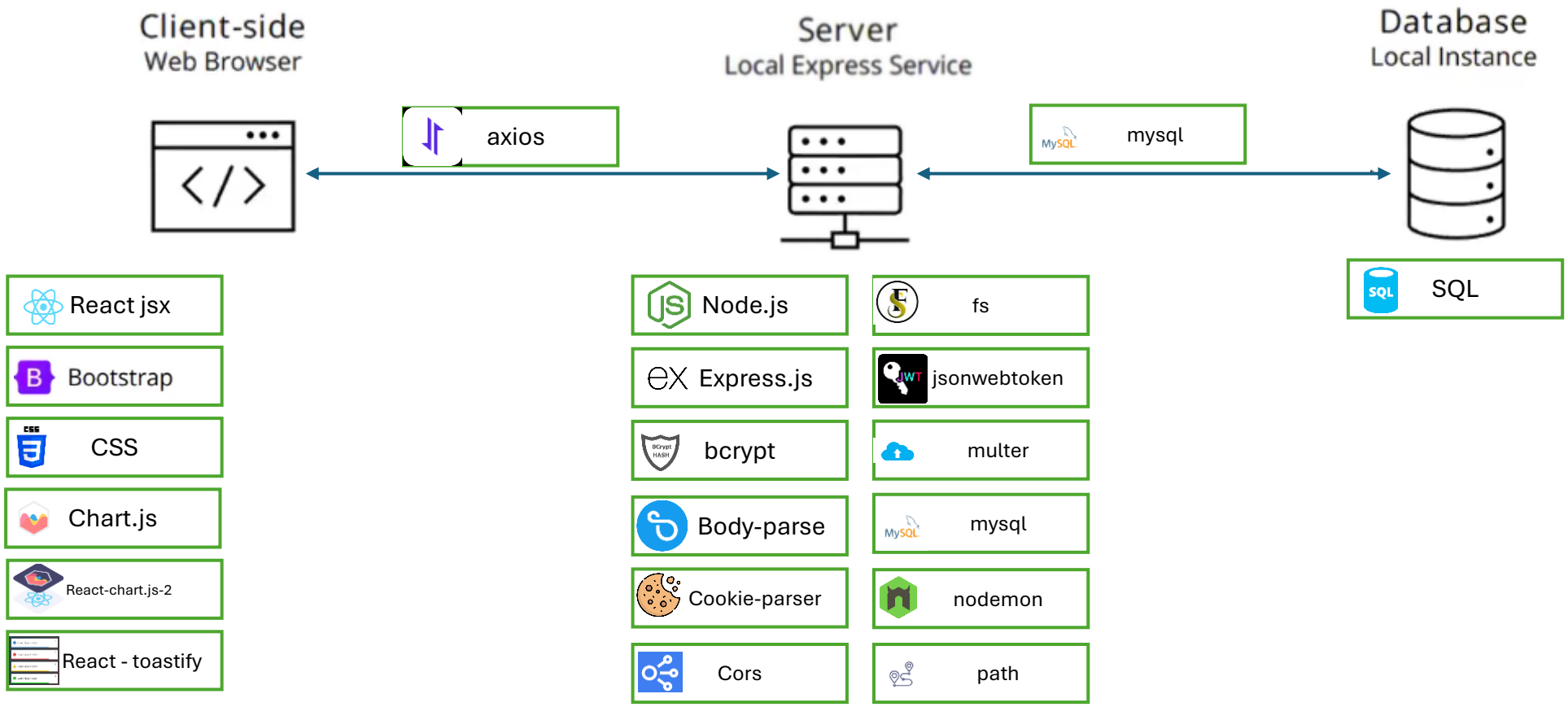
Top-down View



About the project

- באפליקציה יש 2 סוגים של משתמשים יש login ו register ולפי המייל יודעים מי המרצה ומי הסטודנט :
- 1- מורה :

- יכול להוסיף כיתה חדשה עם ציונים
- יכול להוסיף סטודנט חדש לכיתה עם הציונים הרלוונטיים לכיתה הזאת
- יכול להוסיף עבודת בית עם תאריך וקובץ כלשהו
- יכול לעדכן הנוכחות לכל כיתה ולכל סטודנט
- יש אפשרות גם לראות מאזן הציונים לכל כיתה וגם יש גרף לכל כיתה (יש אפשרות לערוך הציונים גם)

2- סטודנט :

- יכול לראות הציונים שלו בכל הקורסים כולל הציון הסופי
- יש אפשרות גם להגיש את עבודות הבית

Technology Stack Overview

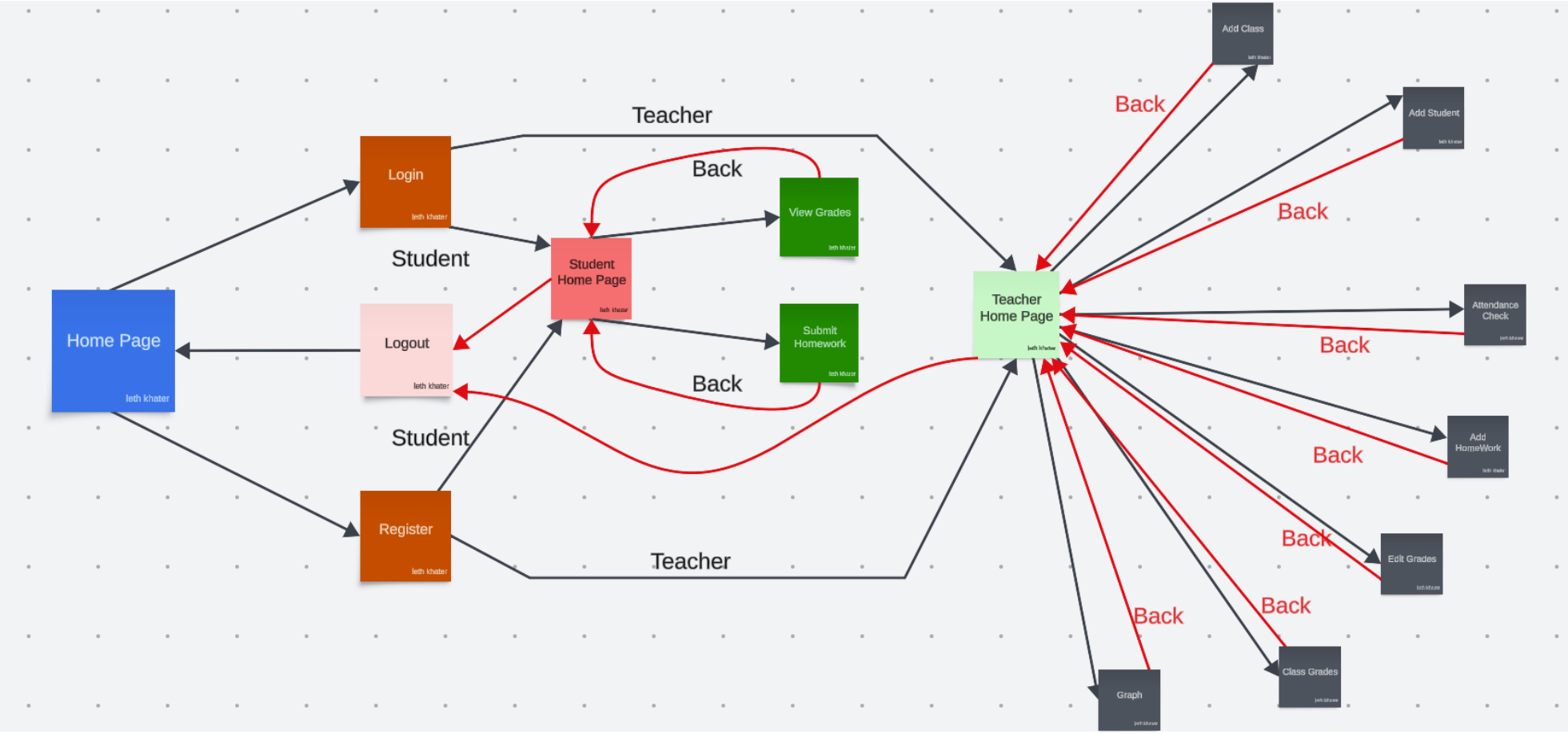
- We implemented the project using the following technologies:

- Client Side : HTML, CSS, JavaScript, Bootstrap
- Server Side : Node Js
- Database : phpMyAdmin (SQL Server)

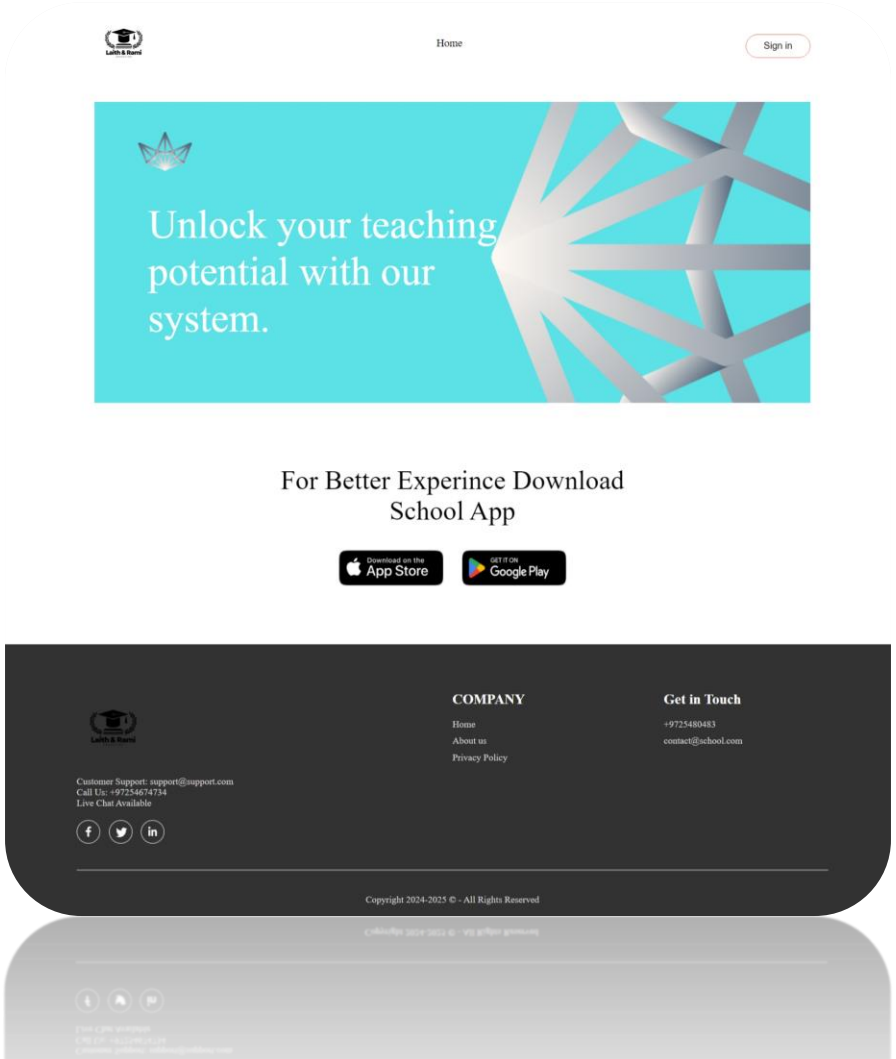
What the application do - Features

- Login
- Register
- Logging Exceptions
- Teacher - > add class
- Teacher -> add student
- Teacher -> add homework
- Teacher -> attendance check
- Teacher -> edit grades
- Teacher -> class grades
- Teacher -> grades graph
- Student -> see and submit homework
- Student -> see grades

Use Case Diagram – Main Process



Home Page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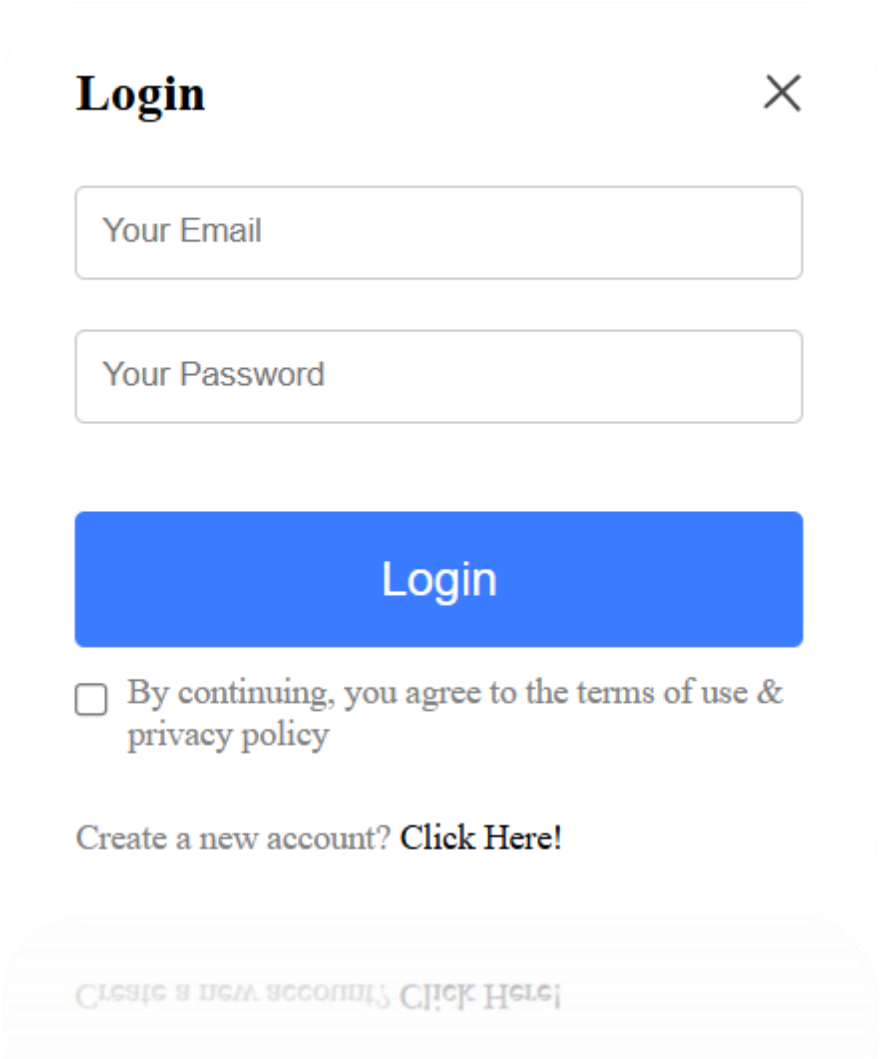
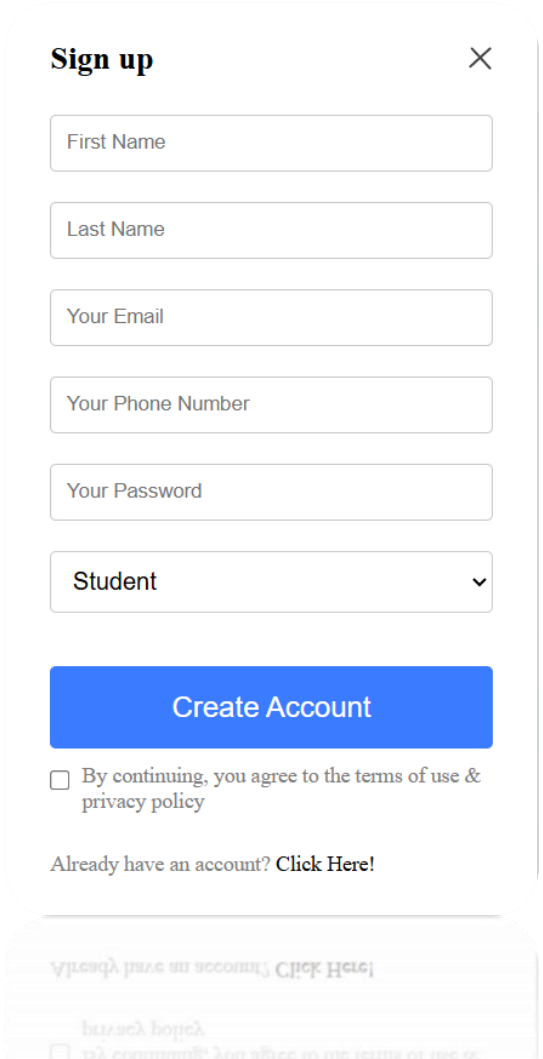
Student / Teacher login page

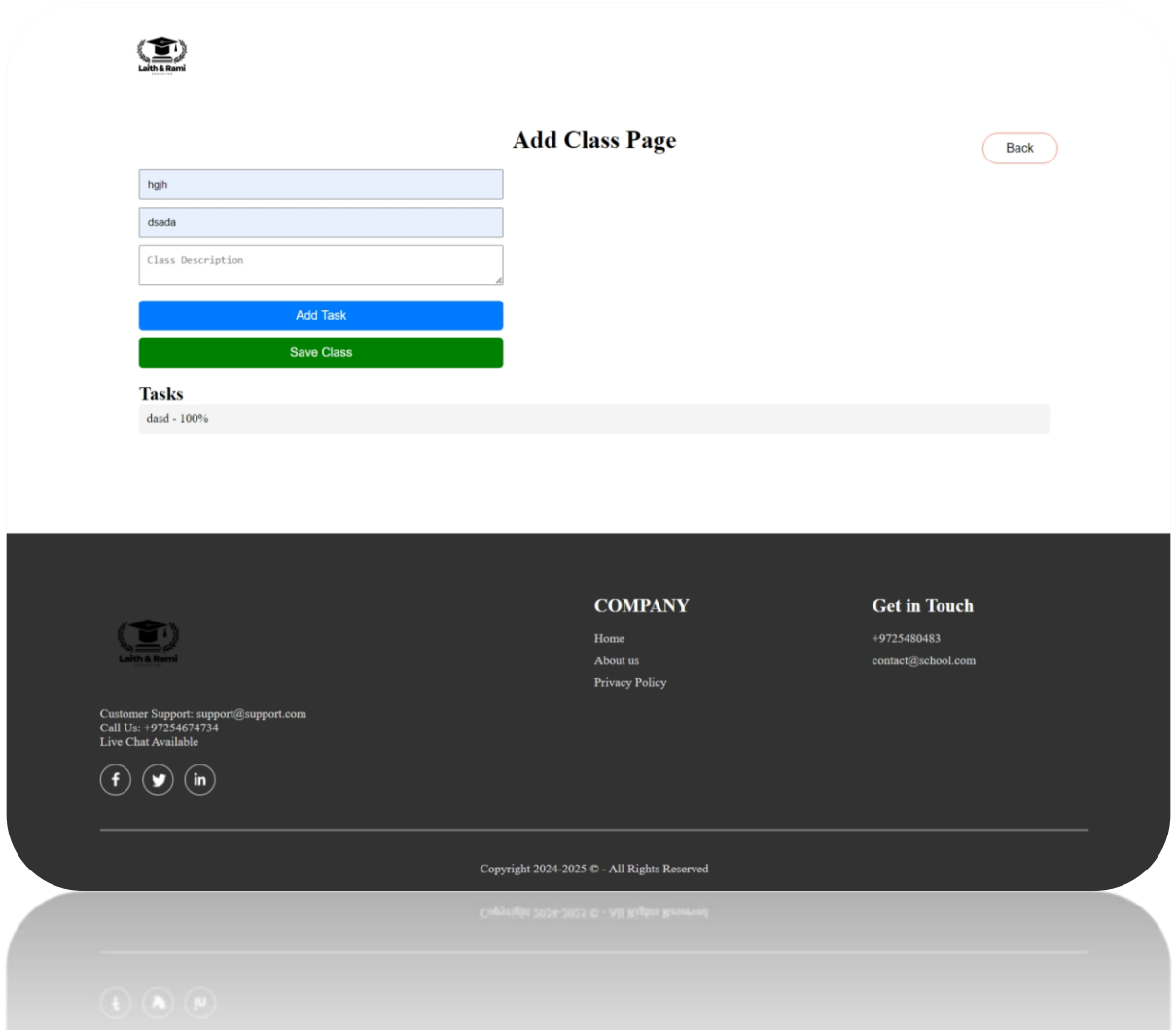


Student / Teacher register page

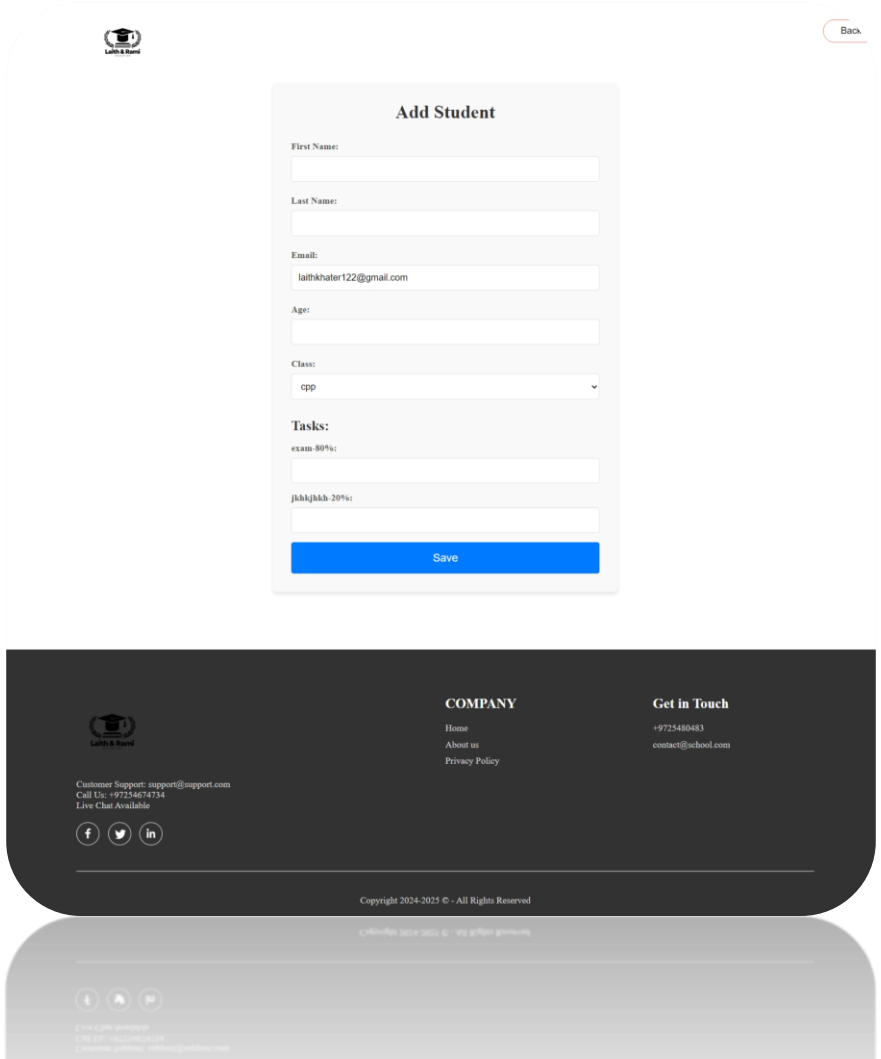


Teacher Main Page

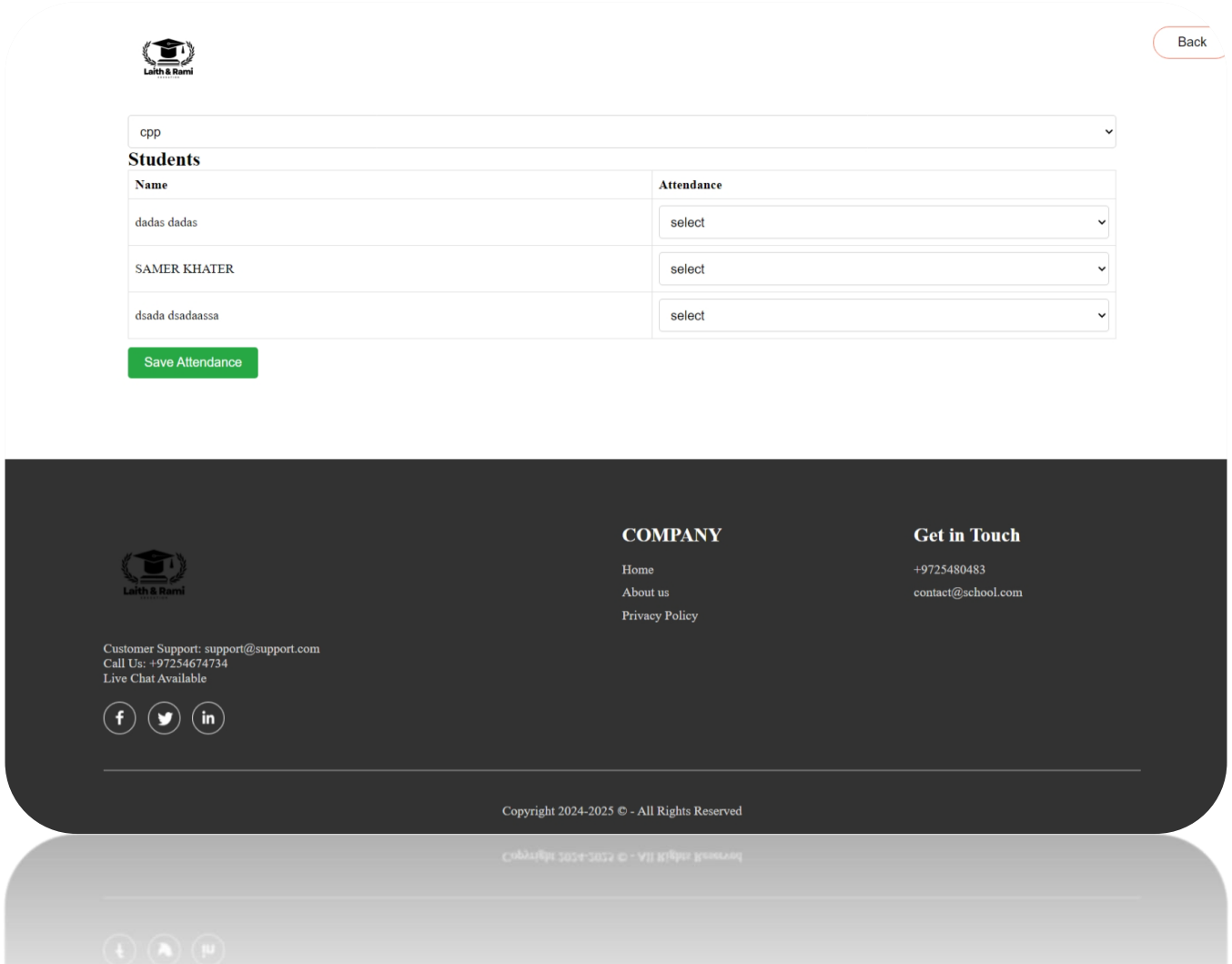
Teacher – Add Class Page



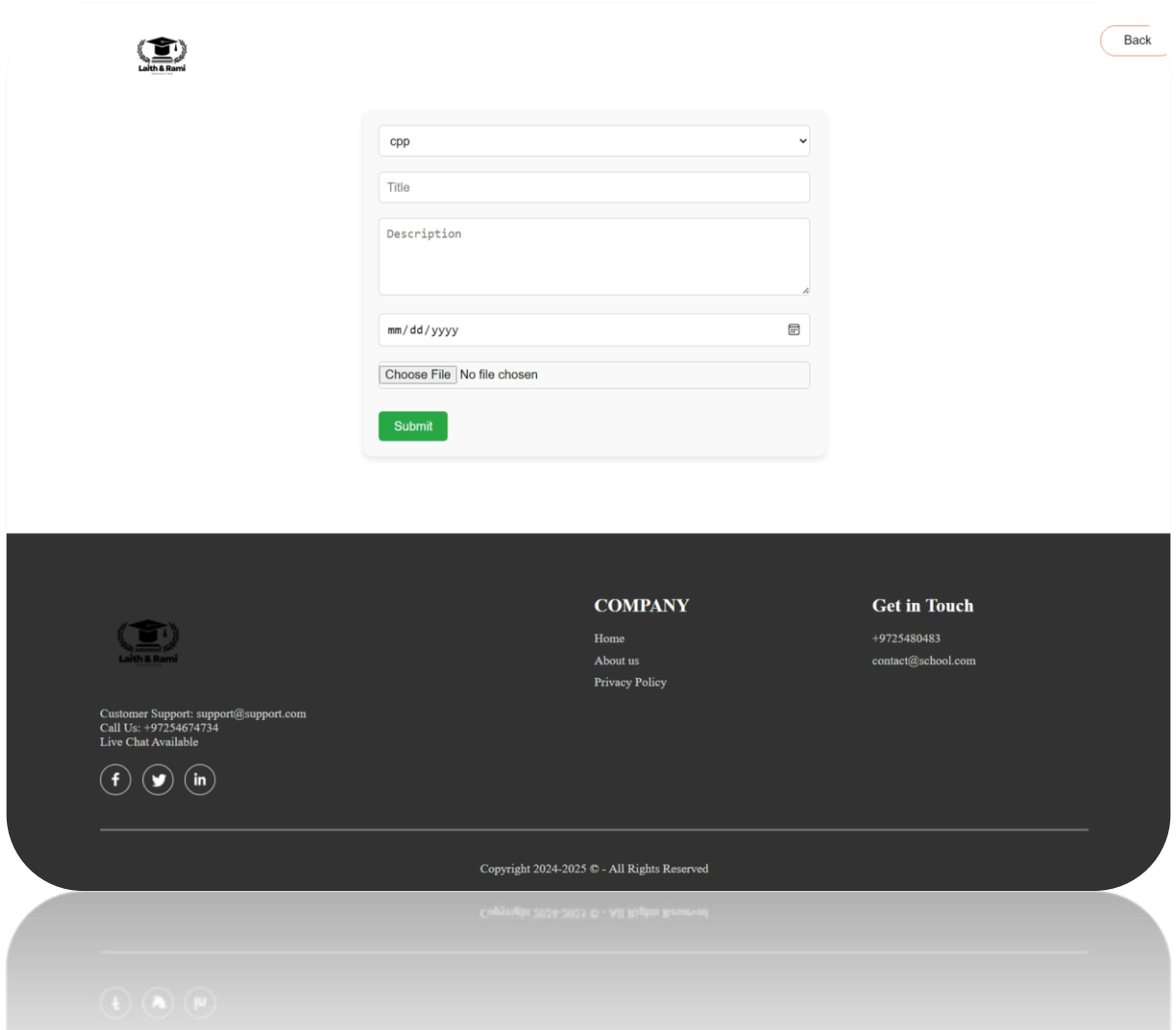
Teacher – Add Student Page



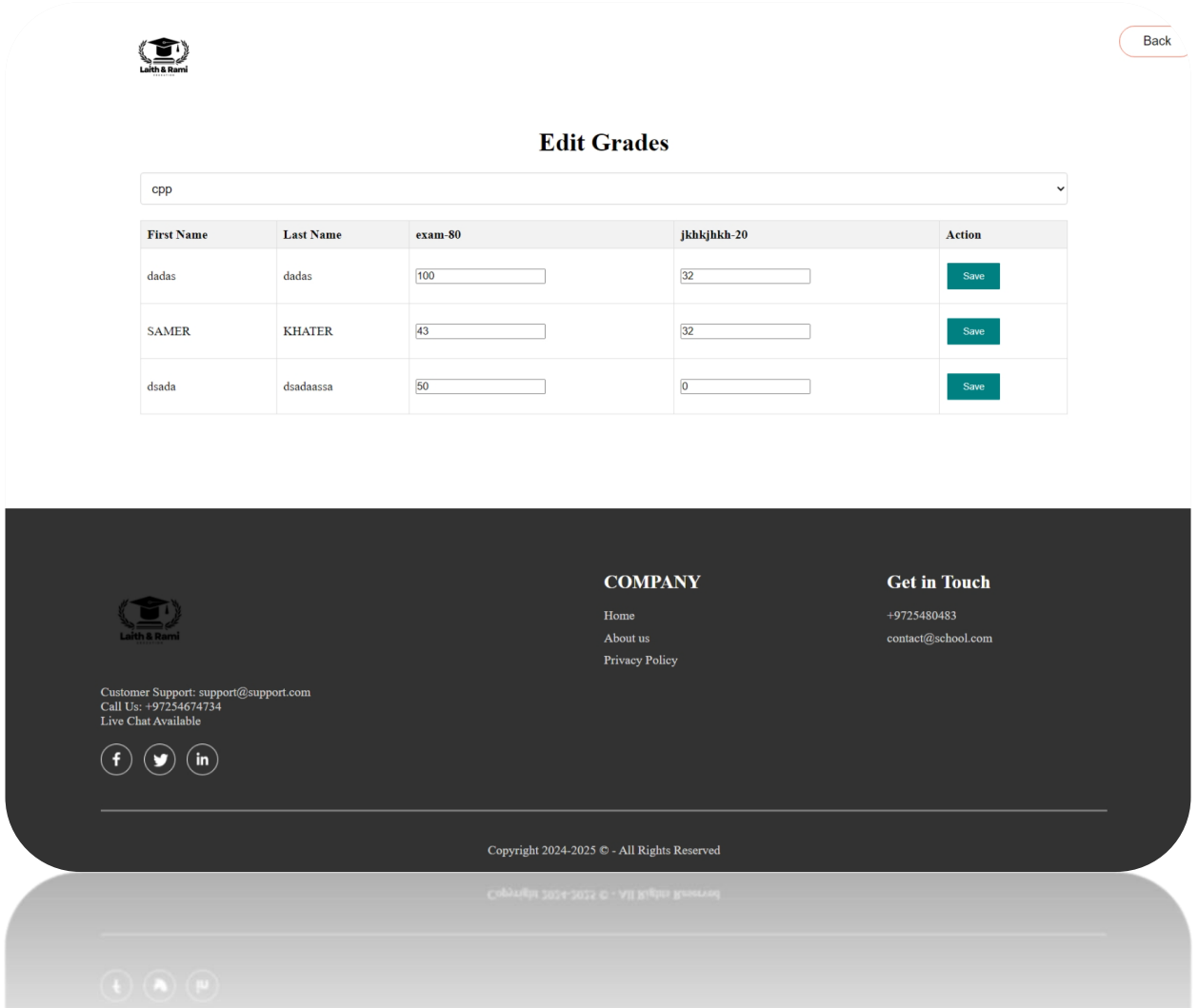
Teacher – Attendance Check Page



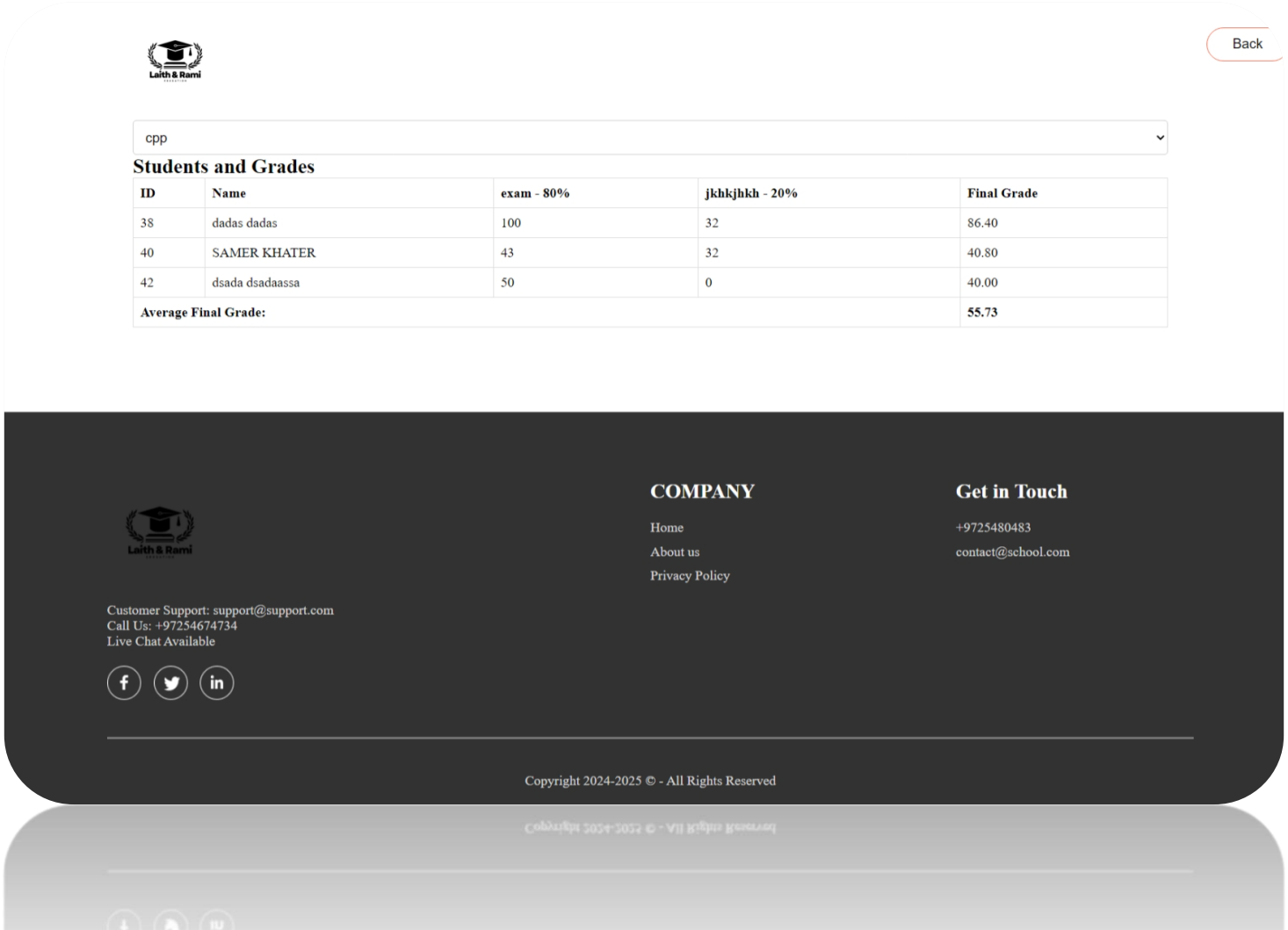
Teacher – Add Homework Page



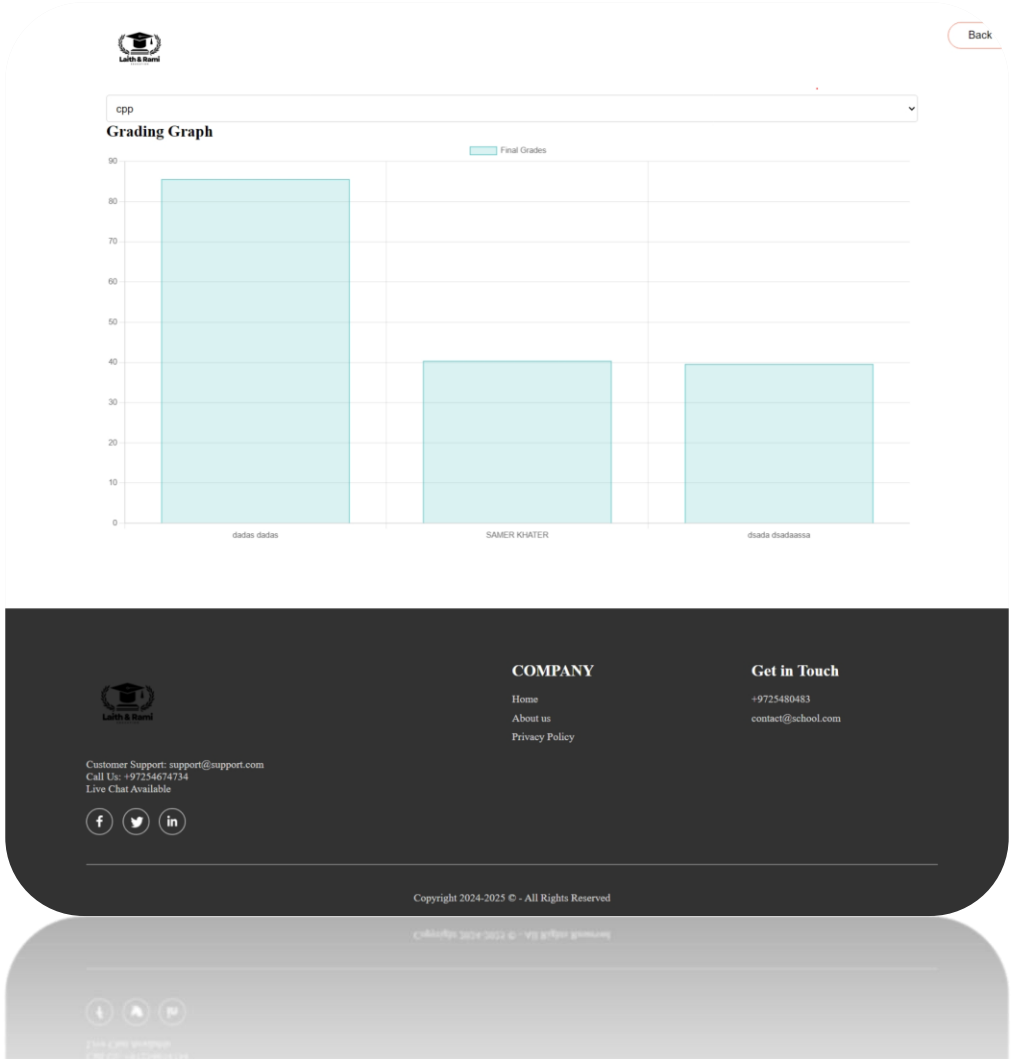
Teacher – Edit Grades Page



Teacher – View Grades Page

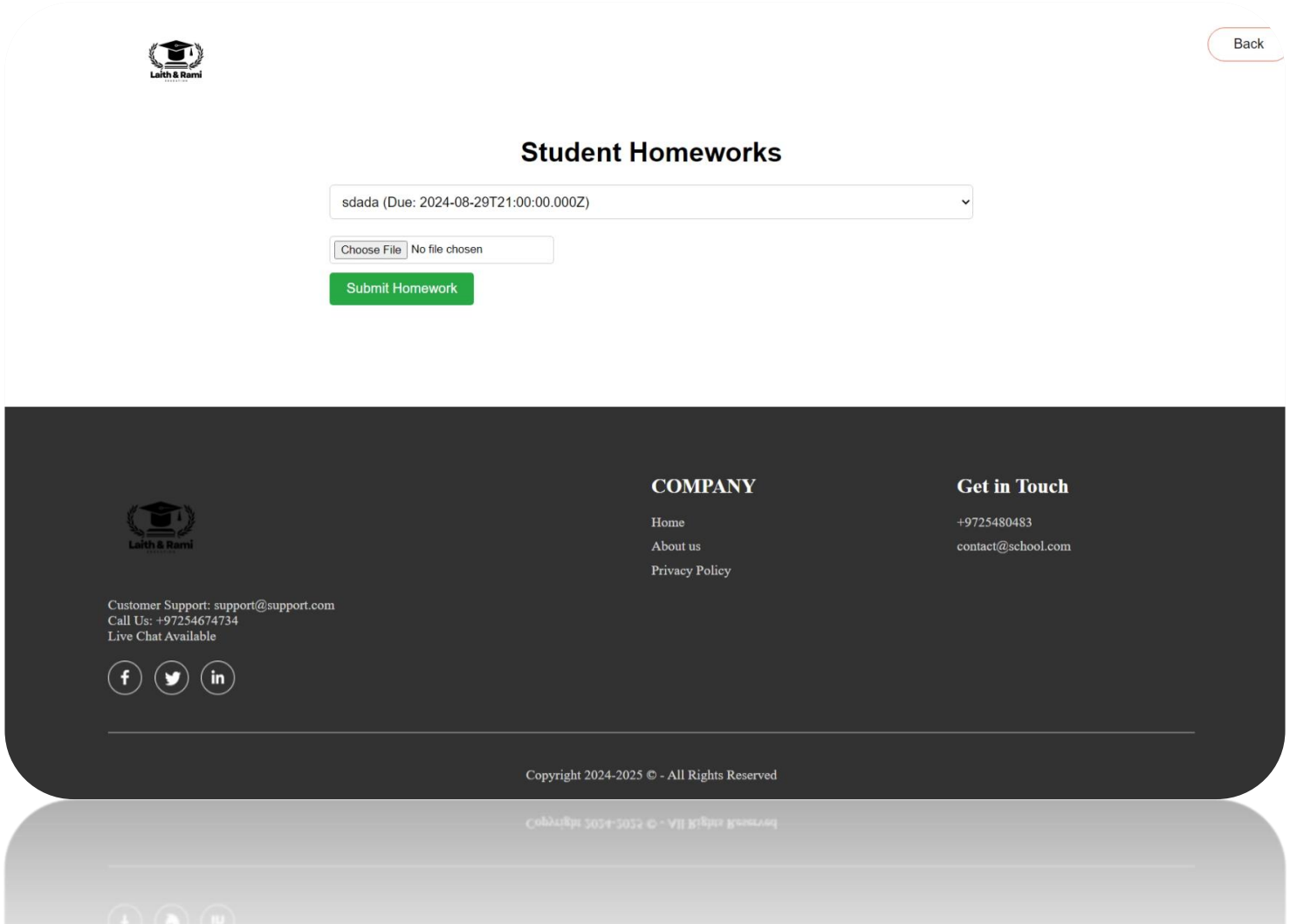


Teacher – Grades Graph Page

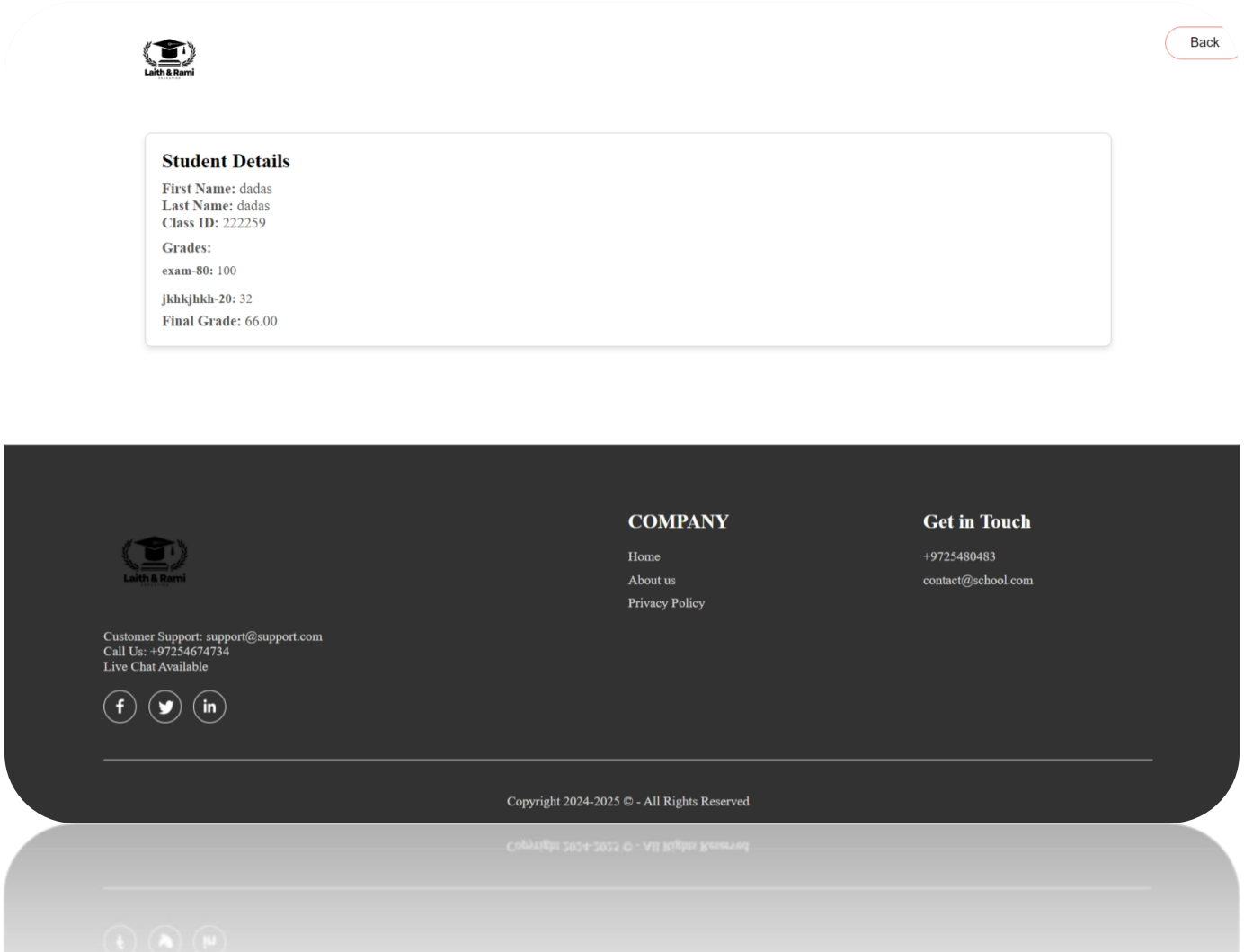


Student Main Page

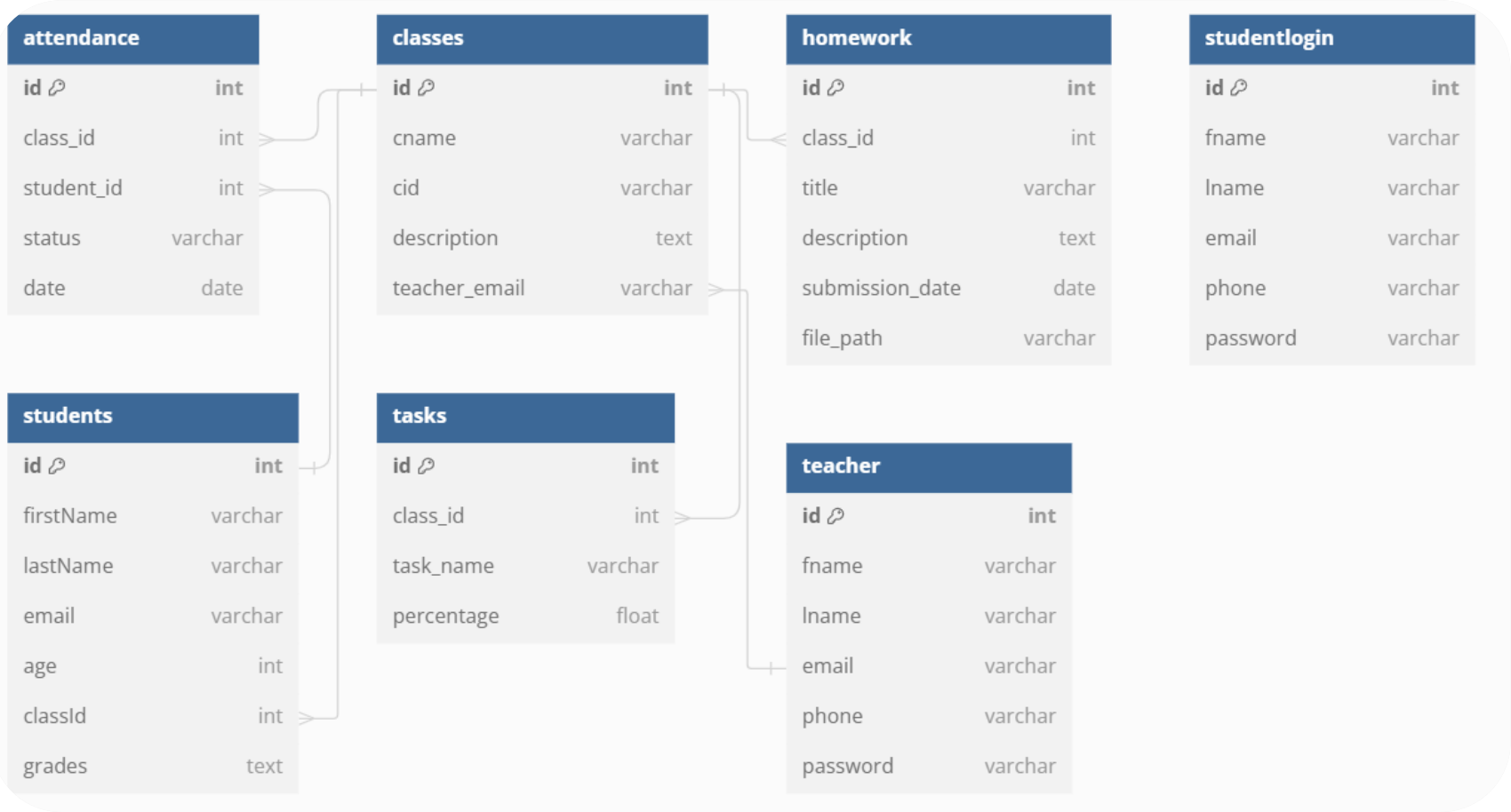
Student – HomeWorks Page



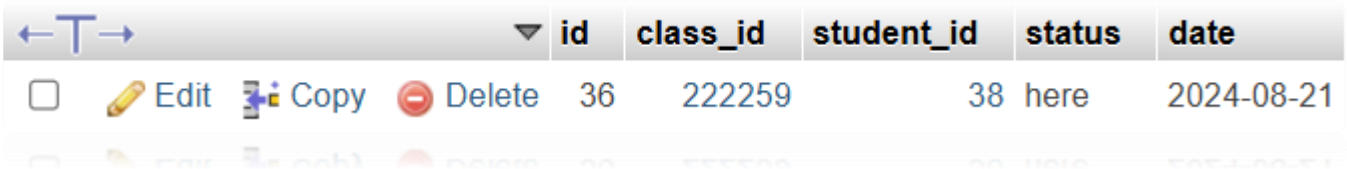
Student – Grades Page



Classes Diagram



DB – attendance table



	id	class_id	student_id	status	date
Edit Copy Delete	36	222259	38	here	2024-08-21

DB – classes table

	id	cname	cid	description	teacher_email
Edit Copy Delete	222259	cpp	1	wsdgfsd	laithkhater122@gmail.com
Edit Copy Delete	222260	hgjh	dsada	dsada	laithkhater122@gmail.com
Edit Copy Delete	222261	Math 101	MATH101	Introduction to Algebra	teacher@example.com
Edit Copy Delete	222263	hgjh	121212		laithkhater122@gmail.com

DB – homework table

	id	class_id	title	description	submission_date	file_path
Edit Copy Delete	9	222259	sdada	dasdada	2024-08-30	uploads\1724247109230-×©×□×¢×□×¨ ×□×□×¨×□ ×□×§×¨×□...

DB – student login table

	id	fname	lname	email	phone	password
Edit Copy Delete	11	dadas	dadas	laithkhater1221@gmail.com	0542392090	$2b$10$VhlOJowvSGuXrVr.lWjdAOelh15rq.y40mQN73sSokM...

DB – teacher table

id	fname	lname	email	phone	password
0	laith	khater	laithkhater122@gmail.com	123123123	$2b$10$blxVlm6jQkHrLVBDnVGFBuE6L40vd7U4wsYtlCptiHy...

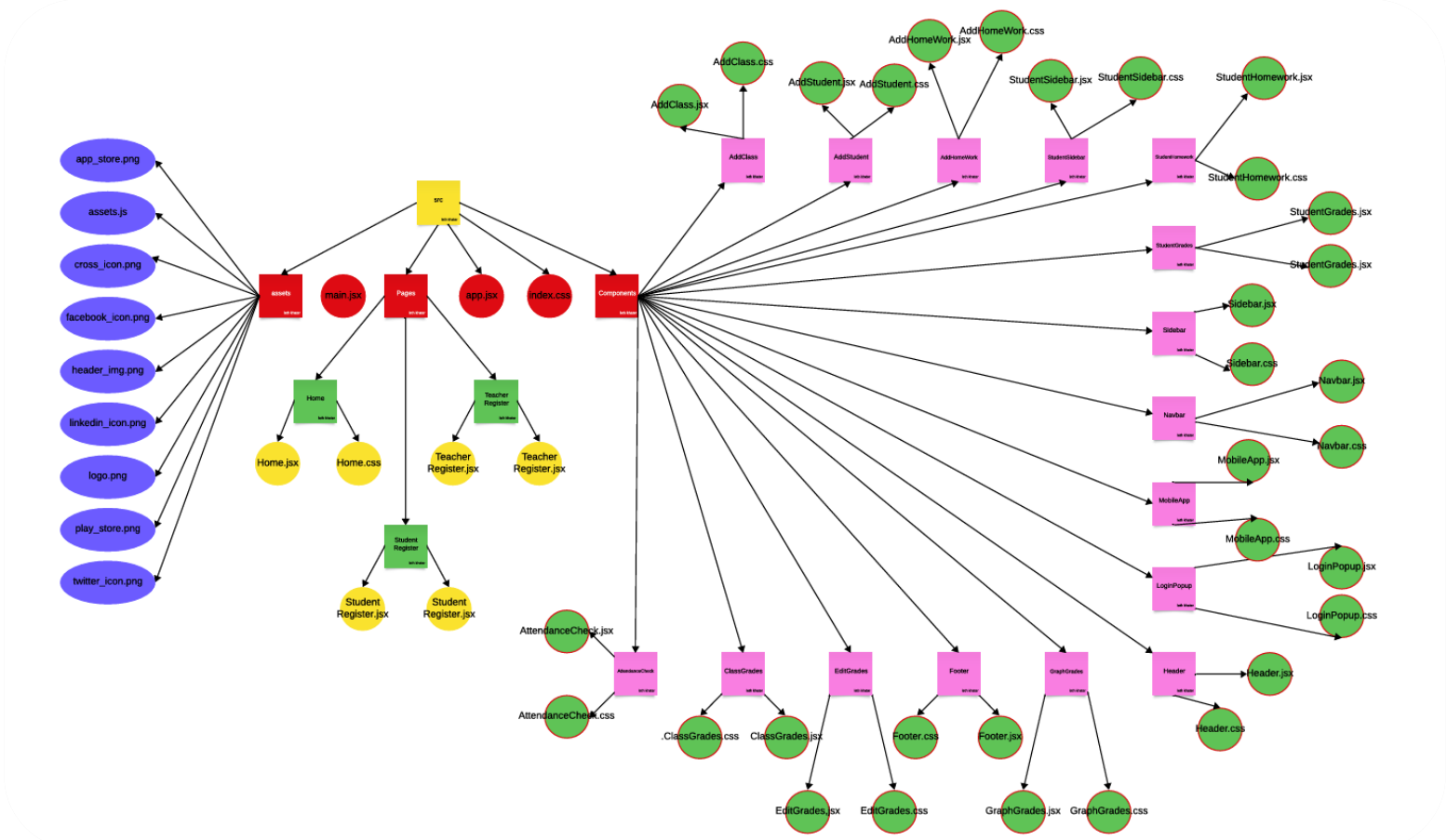
DB – students table

	id	firstName	lastName	email	age	classId	grades
Edit Copy Delete	38	dadas	dadas	laithkhater1221@gmail.com	34	222259	{"exam-80":"100","jkhkjhkh-20":"32"}
Edit Copy Delete	40	SAMER	KHATER	laithkhater1223@gmail.com	32	222259	{"exam-80":"43","jkhkjhkh-20":"32"}
Edit Copy Delete	41	dsada	dsadaassa	laithkhater1224@gmail.com	21	222260	{"dasd-100":"50"}
Edit Copy Delete	42	dsada	dsadaassa	laithkhater1227@gmail.com	21	222259	{"exam-80":"50","jkhkjhkh-20":"0"}

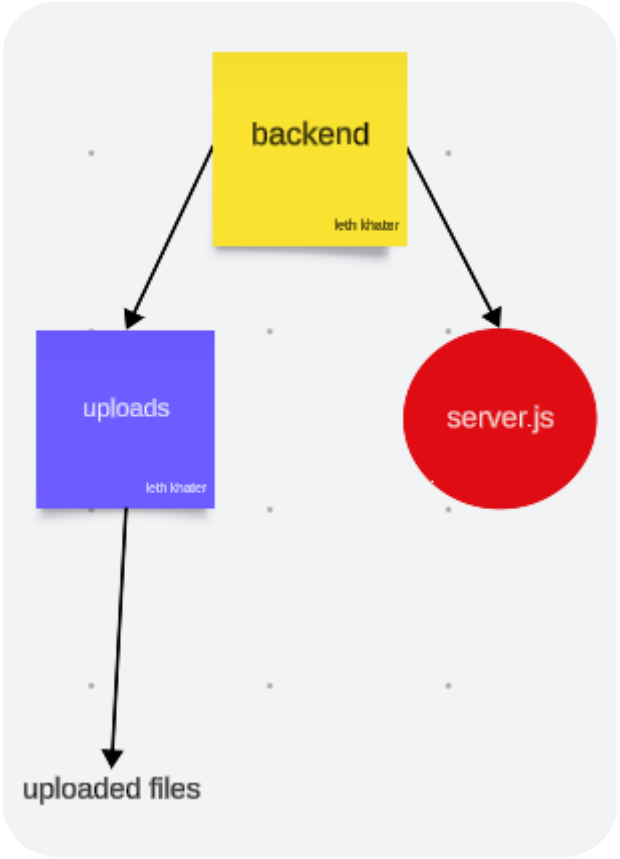
DB – tasks table

	id	class_id	task_name	percentage
Edit Copy Delete	60	222259	exam	80
Edit Copy Delete	61	222259	jkhkjhkh	20
Edit Copy Delete	62	222260	dasd	100
Edit Copy Delete	63	222261	Homework 1	20
Edit Copy Delete	64	222261	Quiz 1	10
Edit Copy Delete	65	222263	dasd	100

Client Side – Project Tree



Server Side – Project Tree



API Endpoints

Path	Method	Params	Returns

/register	POST	{
		"fname": "John",
		"lname": "Doe",
		"email": "john.doe@example.com",
		"phone": "123-456-7890",
		"password": "securepassword123",
		"role": "Student"
		}
			HTTP Status: 200 OK
			
			{
			"Message": "Student registered successfully!"
			}
			Or
			{
			"Message": "Teacher registered successfully!"
			}

/login	GET	**Query Parameters (from req.query):**
		- email: The email address of the user trying to log in.
		- password: The password provided by the user for authentication.
			Success teacher :
			{
			"success": true,
			"message": "Login successful",
			"role": "Teacher"
			}
			
			Success Student :
			{
			"success": true,
			"message": "Login successful",
			"role": "Student"
			}

API Endpoints

Path	Method	Params	Returns

/api/classes	POST	{
		"cname": "Mathematics 101",
		"id": 123,
		"description": "Introduction to basic mathematics.",
		"tasks": [
		{
		"taskName": "Homework 1",
		"percentage": 20
		},
		{
		"taskName": "Midterm Exam",
		"percentage": 30
		}
		],
		"teacher_email": "teacher@example.com"
		}
			If tasks are provided and successfully inserted:
			{
			"Message": "Class and tasks saved successfully!"
			}
			
			If no tasks are provided:
			{
			"Message": "Class saved successfully without tasks!"
			}

/api/classes	GET	**Request Parameters:** The endpoint does not expect any URL parameters, query parameters, or request body data. It simply responds to a GET request at the /api/classes route.	[{ "id": 1, "cname": "Mathematics", "cid": "MATH101", "description": "Introduction to Mathematics", "teacher_email": "teacher1@example.com"]

API Endpoints

/api/tasks/:classId	GET	**Path Parameter (req.params):**classId (string): This is the ID of the class for which tasks are being retrieved. It is specified as a part of the URL path.	[
			{
			"id": 1,
			"title": "Task 1",
			"description": "Description for task 1",
			"due_date": "2024-08-30",
			"class_id": 101
			}
			]

/api/students	POST	{
		"firstName": "John",
		"lastName": "Doe",
		"email": "john.doe@example.com",
		"age": 20,
		"classId": 101,
		"grades": {
		"math": 95,
		"science": 88
		}
		}
			Success Response:
			Status Code: 200 OK
			Body: { message: 'Student added successfully' }
			
			Error Response (Invalid classId):
			Status Code: 400 Bad Request Body: { error: 'Invalid classId' }

API Endpoints

/api/classes/:email	GET	This is a URL parameter (specified as :email in the route). It represents the email address of the teacher whose classes you want to retrieve.	[
			{
			"id": 1,
			"cname": "Mathematics",
			"cid": "MATH101",
			"description": "Basic Mathematics",
			"teacher_email": "teacher@example.com"
			}
			]

/api/students/:classId	GET	This is a required parameter in the URL path. It specifies the ID of the class for which you want to retrieve students.	[
			{
			"id": 1,
			"firstName": "John",
			"lastName": "Doe",
			"email": "john.doe@example.com",
			"age": 20,
			"classId": 10,
			"grades": "A, B, C"
			}
			]

API Endpoints

/api/saveAttendance	POST	[{ "class_id": 101, "student_id": 1, "status": "present", "date": "2024-08-24"}]	Success Response: Status Code: 200 OK JSON Body: { message: 'Attendance saved successfully' } Error Response: Status Code: 500 Internal Server Error JSON Body: { error: 'Failed to save attendance' }

/api/saveHomework	POST	{
		"title": "Math Homework 1",
		"description": "Complete the exercises on page 45",
		"submissionDate": "2024-09-15",
		"classId": "12345"
		}
			Success (200 OK):
			{
			"message": "Homework saved successfully"
			}
			
			Error (500 Internal Server Error):
			{
			"error": "Failed to save homework"
			}

API Endpoints

/api/attendance/:studentId	GET	The ID of the student whose attendance records are being queried. This value is provided in the URL path.	Successful Response :
			[
			{
			"student_id": 123,
			"date": "2024-08-01",
			"status": “here"
			}
			]
			
			Error Response :
			{
			"error": "Internal Server Error"
			}

/api/students/:id	PUT	{
		"grades": {
		"math": 90,
		"english": 85
		}
		}
			Success:
			{
			"message": "Grades updated successfully"
			}
			
			Error :
			{
			"error": "Internal Server Error"
			}

API Endpoints

/api/students	GET	**Query Parameter**: email	**Status Code**: 200 OK
			[
			{
			"id": 1,
			"firstName": "John",
			"lastName": "Doe",
			"email": "student@example.com",
			"age": 20,
			"classId": 101,
			"grades": {
			"math": 95,
			"science": 88
			}
			}
			]
			
			Status Code: 404 Not Found
			{
			"Error": "Student not found"
			}

/api/classes/:cid	GET	**Path Parameter**:
		cid - This is a dynamic path parameter representing the class ID. It is used to identify which class to fetch from the database.
			Status Code: 200 OK
			{
			"className": "<Class Name>"
			}
			
			Database Error:
			{
			"error": "Database error"
			}

API Endpoints

/api/homeworks/:classId	GET	**Path Parameter**: classId	[{ "id": 1, "class_id": 101, "file": "homework1.pdf", "due_date": "2024-09-01" }]

/api/submitHomework	POST	**Request Body**:
		homeworkId (string): Provided as part of the form-data in the request body.
		File:
		file (File): Uploaded with the request and accessible via req.file.
			Success Response:
			{
			"message": "Homework submitted successfully"
			}