

CS 312 - Project Phase – 1 Report

Follow the instructions provided in the grey text. Replace the grey text with actual information.

Group Details:

Student 1 Name	Manjot kaur
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Student 2 Name	Aryan Sharma
Student 2 Email	as6355@nau.edu

Phase-1 Details:

Project Title	Employee Database Management System (EDMS)
Phase -1 Components	<ul style="list-style-type: none">• Database Design• Backend Setup• Authentication Setup• UI Wireframes• Requirement Analysis

Task Status:

Avoid incorporating generic information, as it may result in penalties. Copy all the phase-1 tasks listed in the proposed project plan.

Task No	Task Details	Assigned To	Task Status
1	Requirement Analysis – identify system roles, CRUD operations	Manjot Kaur	Completed
2	Database Design – create ERD, define PostgreSQL schema	Aryan Sharma	Completed
3	Backend Setup – initialize Node.js + Express server	Aryan Sharma	Completed
4	Authentication Setup – implement JWT-based authentication	Manjot Kaur	Completed
5	UI Wireframes – design mockups for dashboard & profile	Manjot Kaur	Completed

New Tasks or Modified Tasks (Optional):

List all newly created tasks or tasks modified from your project proposal. Feel free to add more rows to the following table. **Fill the below section, only if you have any new tasks or modifications in the Phase-1 tasks list or else skip it.**

Task Type	Task Details	Assigned To	Task Status
New/ Modified	Explain the Task in detail (not in general)	Name of the team member	Completed/ Backlog (Pending)/ Modified
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Challenges and Solutions Implementation:

List at least 4 challenges faced by your team during phase-1 development and elaborate on the solutions you have implemented. Feel free to add more rows to the following table.

Details of the Challenge	Solution Implemented
PostgreSQL Connection Errors — faced issues connecting the database in different environments.	Configured environment variables for credentials and used connection pooling via pg library.
JWT Token Expiry During Testing — users were logged out prematurely.	Extended expiry duration and implemented automatic token refresh for smooth login sessions
Cross-Origin Resource Sharing (CORS) Error while linking React frontend with Node backend.	Installed and configured CORS middleware in Express to allow localhost origins during development.
Unclear UI alignment in React wireframes	Used React Bootstrap grid layout and component modularization for a consistent responsive layout.

Phase-1 Developed Screens:

- Incorporate webpage screens corresponding to the project phase - 1.
- Capture all screenshots of your phase-1 delivery (**don't include any code screenshots**) and attach them in this section.

Backend terminal running

```
PS C:\Users\End User\OneDrive\Documents\Project_Group_33_EDMS\backend> npm run dev

> edms-backend@1.0.0 dev
> nodemon server.js

[nodemon] 3.1.9
[nodemon] to restart at any time, enter 'rs'
[nodemon] watching path(s): ***!
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting 'node server.js'
Server running on port 5000
```

Postman — Register API & Postman — Login API (successful response)

```
1  {
2      "message": "Login successful",
3      "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
eyJpZCI6MSwicm9sZSI6MSwiZW1haWwiOiJhZG1pbkBleGFtcGx1LmNvbSIsImhdCI6MT
c2MzQyNjI0MiwiZXhwIjoxNzYzMzNDQyfQ.
QgvNjuwTNcVjVLSnGYbq-9l19j8D-0hNfj0rQkuPHuc",
4      "user": {
5          "id": 1,
6          "full_name": "Admin User",
7          "email": "admin@example.com",
8          "role_id": 1
9      }
10 }
```



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Mockup Screen 1 — Login Page

EMPLOYEE MANAGEMENT SYSTEM	

[Login to Continue]	
Email:	_____
Password:	_____
[LOGIN BUTTON — BLUE]	
Forgot password? (link)	



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Mockup Screen 2 — Admin Dashboard

Sidebar	TOP NAVBAR — "Welcome, Admin User"	
-----	-----	
> Dashboard		
> Employees	[Total Employees: 18] [Active: 15]	
> Add Employee		
> Profile	[Admin Users: 3] [Departments 6]	
> Logout		

	Employees Overview Table (Preview)	

	Name Email Role ...	

Mockup Screen 3 — Employee List Table

Employees				

[Search Bar: _____]	[Filter ▼]			

NAME	EMAIL	ROLE	...	

Admin User	admin@example.com	Admin	Edit	
Employee One	emp1@example.com	Employee	Edit	
Employee Two	emp2@example.com	Employee	Edit	

[Add New Employee — Blue Button]				

Mockup Screen 4 — Employee Profile Page

Profile	

[Profile Photo Placeholder]	
Full Name:	Admin User _____
Email:	admin@example.com
Department:	HR ▼ _____
Role:	Admin ▼ _____
[SAVE CHANGES — BLUE BUTTON]	



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Mockup Screen 5 — Add Employee Form

Add New Employee	

Full Name:	_____
Email:	_____
Password:	_____
Role:	Admin ▼ Employee ▼
Department:	IT ▼ HR ▼ Finance ▼
[CREATE EMPLOYEE — BLUE BUTTON]	
