

WIPRO NGA Program – 25SUB4530_CP_JAVA

Capstone Project Presentation – 9th Feb & 10th Feb 2026

Project Title Here - Employee Management System

Team number - 20

Presented by : 56106-VARSHA G K

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INTRODUCTION

- The Employee Management System is a web-based application designed to help organizations manage employee records efficiently.
- The system provides a user-friendly interface for HR or administrators to perform CRUD (Create, Read, Update, Delete) operations on employee data.
- It eliminates manual record-keeping by centralizing employee information in a secure and structured database.
- The frontend is developed using Angular, providing a responsive and interactive user experience with form validation and data tables. The backend is built with Spring Boot ,exposing RESTful APIs to handle business logic and database operations.
- Spring Data JPA is used for seamless interaction with the relational database. The application is containerized using Docker and deployed on Microsoft Azure, ensuring scalability and easy deployment.

Business Objectives

- Automate employee data management processes
- Improve data accuracy and consistency
- Reduce manual administrative effort
- Enable quick access to employee information
- Support future scalability and enhancements.

Technology Stack

Frontend Layer:

- HTML, CSS, JavaScript (User Interface)

Backend Layer:

- Java, Spring Boot (Business Logic & APIs)
- Spring Data JPA (Persistence Layer)

Database:

- MySQL (Relational Database Management System)

Frontend Module Overview

The frontend provides a user-friendly interface for administrators to manage employee records.

Key Responsibilities:

- Display employee information in structured views
- Capture and validate user input
- Communicate with backend services via REST APIs

Backend Module Overview

The backend is responsible for handling business logic, data processing, and system security.

Key Responsibilities:

- Expose RESTful APIs
- Perform CRUD operations
- Handle exceptions and validations
- Maintain data integrity

Key Features

- Centralized employee data management
- Secure and structured REST APIs
- Robust exception handling
- Input validation and error control
- Modular and maintainable architecture

DevOps & Deployment:

Docker:

- Containerizes frontend and backend applications
- Ensures consistent environment across development and production
- Simplifies deployment process

Azure:

- Hosts backend Spring Boot APIs
- Hosts Angular frontend application
- Supports scalability and cloud deployment
- Enables easy application management.

Employee Management Running

Add Employee

Employee Code	Name	Department
<input type="text"/>	<input type="text"/>	<input type="text"/>
Designation	Email	Phone
<input type="text"/>	<input type="text"/>	<input type="text"/>
Emergency Contact	Salary	Experience (Years)
<input type="text"/>	<input type="text"/>	<input type="text"/>
Work Location	Gender	Employment Type
<input type="text"/>	<input type="text"/>	<input type="text"/>
Status	Date of Birth	Date of Joining
<input type="text"/>	<input type="text"/> dd-----yyyy	<input type="text"/> dd-----yyyy
Last Working Day		
<input type="text"/> dd-----yyyy	<input type="button" value=""/>	<input type="button" value=""/>

Profile Image URL

Address

Employee Management Running

The screenshot shows a web browser window with the URL `localhost:4200`. The main title is "Employee Management". Below it is a search bar with placeholder "Search...", a blue "Search" button, and a green "Add Employee" button. The main content is a table with columns: Code, Name, Dept, Designation, Email, Phone, and Actions. The table contains five rows of employee data with edit and delete buttons.

Code	Name	Dept	Designation	Email	Phone	Actions
EMP3210	Harshini G R	IT	Developer	harshini@gmail.com	9878976578	<button>Edit</button> <button>Delete</button>
EMP2345	Varun N	R&D	Senior Engineer	varu8998@gmail.com	9876543210	<button>Edit</button> <button>Delete</button>
EMP001	Varun N	R&D	Senior Engineer	varun398@gmail.com	9876543210	<button>Edit</button> <button>Delete</button>
EMP006	Vamshi P	IT	Senior Engineer	vamshii98@gmail.com	9987543210	<button>Edit</button> <button>Delete</button>
EMP013	Naruto	IT	Junior Engineer	naruto998@gmail.com	9873243210	<button>Edit</button> <button>Delete</button>

Employee Data in DB:

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database **Server** Tools Scripting Help

SQLEdit Schema Browser Database Object Navigator

Query 1 ×

MANAGEMENT

- Server Status
- Client Connections
- Users and Privileges
- Status and System Variables
- Data Export
- Data Import/Restore

INSTANCE

- Startup / Shutdown
- Server Logs
- Options File

PERFORMANCE

- Dashboard
- Performance Reports
- Performance Schema Setup

Administration Schemas

Information

No object selected

Object Info Session

Query 1

```
1 • USE employee_db;
2 • SHOW TABLES;
3 • SELECT * FROM employees;
4
```

Result Grid | Filter Rows: Edit: Export/Import: Wrap Cell Content: Result Grid

	id	address	created_at	date_of_birth	date_of_joining	department	designation	email
▶	5	Hyderabad	2026-02-07 20:50:36.479802	2003-02-01	2026-03-03	IT	Developer	harshini@gmail.com
	6	India	2026-02-08 12:50:49.858929	2001-05-10	2024-01-01	R&D	Senior Engineer	varu8998@gmail.com
	7	India	2026-02-08 13:20:51.539221	2001-05-10	2024-01-01	R&D	Senior Engineer	varun398@gmail.com
	8	India	2026-02-08 13:42:59.043015	2001-05-01	2025-01-01	IT	Senior Engineer	vamshi98@gmail.com

employees 2 ×

Output

Action Output

#	Time	Action	Message
1	08:13:45	USE employee_db	0 row(s) affected
2	08:14:05	SHOW TABLES	1 row(s) returned
3	08:14:30	SELECT * FROM employees LIMIT 0, 1000	4 row(s) returned

Postman Screenshots:

The screenshot displays two parallel Postman requests:

- GET Request:** URL: `http://localhost:8080/api/employees`.
 - Body tab (selected): Raw JSON response:

```
1 {  
2   "name": "Naruto",  
3   "department": "IT",  
4   "designation": "Junior Engineer",  
5   "email": "naruto998@gmail.com",  
6   "phoneNumber": "9873243210",  
7   "emergencyContact": "9185156789",  
8   "salary": 70000,  
9 }  
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Docker Deployment:

The screenshot shows the Docker Desktop application window. The left sidebar has a 'PERSONAL' section with links for Ask Gordon (BETA), Containers, Images (which is selected and highlighted in grey), Volumes, Kubernetes, Builds, Models, MCP Toolkit (BETA), Docker Hub, Docker Scout, and Extensions. The main area is titled 'Images' with a 'Local' tab selected and a 'My Hub' tab. It shows a progress bar for disk usage (449.94 MB / 4.67 GB in use) and a message that 4 images were found. A search bar and filter icons are at the top of the list table. The table lists the following images:

	Name	Tag	Image ID	Created	Size	Actions
<input type="checkbox"/>	employee-frontend	latest	bbbd3c90aa32	1 day ago	93.93 MB	View More Delete
<input type="checkbox"/>	employee-backend	latest	14bd3446639c	1 day ago	541.79 MB	View More Delete
<input type="checkbox"/>	employeemanagement	latest	687da9c5343b	1 day ago	541.79 MB	View More Delete
<input type="checkbox"/>	mysql	8	7fcf7bcd3fa7	4 days ago	1.09 GB	View More Delete

At the bottom right, it says 'Showing 4 items'. The top navigation bar includes a 'Search' field, a 'Ctrl+K' button, and various status icons.

Azure Deployment:

← → ⌂ portal.azure.com/#@labasservice.onmicrosoft.com/resource/subscriptions/9e28aa91-bc70-4f12-8c96-962827ff6189/resourceGroups/Employee-man... ⌂ ⌂ ⌂ ⌂ ⌂ ⌂

Microsoft Azure Search resources, services, and docs (G+/) Copilot Home

employeemanagement23 Web App

Search Browse Stop Swap Restart Delete Refresh Download publish profile Reset publish profile Share to mobile ...

Consider using Azure Front Door since your app receives incoming requests from multiple regions.

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Microsoft Defender for Cloud Events (preview) Resource visualizer Deployment Deployment slots Deployment Center Settings

JSON View

Essentials

Resource group (move)	Default domain
Employee-management_group	employeemanagement23-ahafehfdasabbgd4.centralus-01.azurewebsite... ...
Status	App Service Plan
Running	ASP-Employeemanagementgroup-8ec1 (B1: 1)
Location (move)	Operating System
Central US	Linux
Subscription (move)	Health Check
labs120	Not Configured
Subscription ID	GitHub Project
9e28aa91-bc70-4f12-8c96-962827ff6189	https://github.com/varshagk2709/Employee-Management-System
Tags (edit)	
Add tags	

Add or remove favorites by pressing Ctrl+Shift+F

GitHub Actions:

varshagk2709 / Employee-Management-System

Type / to search

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

← Build and deploy JAR app to Azure Web App - employeemanagement23

Fix workflow: correct paths with new Azure credentials #5

Re-run all jobs ...

Summary

Triggered via push 1 hour ago

varshagk2709 pushed a91a86d main

Status Success Total duration 2m 6s Artifacts 1

build

deploy

Run details

Usage

Workflow file

main_employeemanagement23.yml
on: push

build 43s → deploy 1m 17s

[+]

```
graph LR; build[build 43s] --> deploy[deploy 1m 17s]
```

Conclusion:

- This project implements a **full-stack Employee Management System** using **Angular, Spring Boot, and MySQL**.
- It supports complete CRUD operations with proper validation, REST API integration, and structured backend architecture.
- The system is scalable, maintainable, and reflects real-world enterprise application design.

THANK YOU