Documentation

# Employee Wellness Portal

The Employee Wellness Portal is a full-stack platform designed to help employees track physical and emotional health, set goals, and access curated wellness resources. It features role-based access, AI-powered suggestions, and a secure HR dashboard built with Spring Boot and AngularJS.

##### Cohort ID: QEA25SDGN001

### Team Members

Kshitij Singh 2438044

Purvi Hegde 2438076

Sai Sathwik Kosuru 2438053

Mukund Sarda 2438052

Dhiren Pradhan 2438069

### Project Requirements and Structure

##### Concept Overview

* Health Tracking (Physical, Emotional)
* Wellness Resources (Articles, Videos, AI-generated content)
* Surveys and feedback
* Goal setting and progress tracking (Points and Rewards System)
* Admin dashboard for HR
* Authentication and role-based access
* GenAI-powered suggestions and chat (optional)

##### Backend – Spring Boot + MySQL

###### Models

* Employee
* WellnessMetric
* Goal
* Survey
* SurveyResponse
* Resource
* Admin
* AuthUser

###### Repositories

* Spring Data JPA interfaces

###### Services

* WellnessService
* SurveyService
* ResourceService
* GenAIService
* AuthService

###### REST APIs

* /api/auth
* /api/employees
* /api/wellness
* /api/goals
* /api/surveys
* /api/resources
* /api/genai

##### Frontend - AngularJS

###### Pages

* Login/Register
* Dashboard
* Track Wellness
* Goals
* Surveys
* Resources
* Admin Panel
* AI Assistant

###### Components

* navbar
* footer
* card
* modal
* form-group
* wellness-form
* goal-tracker
* survey-viewer
* resource-browser
* ai-widget

###### Auth Integration

* JWT-based auth interceptor
* Role-based routing guards
* Secure token storage

###### Gemini GenAI Integration (optional)

* Generate personalized wellness tips
* Summarize articles
* Chatbot for wellness Q&A
* Suggest goals based on user data

##### Authentication & Authorization

###### Backend

* Spring Security with JWT
* Role-based access
* Password hashing

###### Frontend

* Login form
* Token storage
* AuthGuard
* Logout and token refresh

##### Optional Enhancements

* Charts for wellness trends
* Calendar integration
* Email notifications
* Mobile responsiveness
* AI feedback loop