

Project 25 - Curriculum

1. Aviation Industry: Flight Reservation System

- A web application allowing users to search for flights, view available seats, and book tickets.
- Technologies: Spring Boot, React, PostgreSQL, RESTful API.

2. Aviation Industry: Airline Crew Management

- An application to manage airline crew schedules, shifts, and leave requests.
- Technologies: Spring Boot, React, MySQL, GraphQL.

3. Aviation Industry: Airport Information Portal

- An app providing real-time information about flight schedules, delays, and airport facilities.
- Technologies: Spring Boot, React, MongoDB, WebSocket.

4. Hospitality Industry: Hotel Booking Platform

- An online platform for users to search, book, and manage hotel reservations.
- Technologies: Spring Boot, React, Redis, JWT Authentication.

5. Hospitality Industry: Restaurant Management System

- A system to manage restaurant operations, including table reservations and order processing.
- Technologies: Spring Boot, React, MySQL, WebSocket.

6. Hospitality Industry: Event Booking Application

- An application for booking and managing event venues and services.
- Technologies: Spring Boot, React, AWS S3 for media storage.

7. Healthcare Industry: Electronic Health Records (EHR) System

- A secure platform for healthcare providers to manage patient records electronically.
- Technologies: Spring Boot, React, PostgreSQL, OAuth2.

8. Healthcare Industry: Telemedicine Platform

- A platform enabling video consultations and appointment scheduling with doctors.
- Technologies: Spring Boot, React, WebRTC, Firebase.

9. Healthcare Industry: Fitness Tracking App

- An app for users to track their fitness progress and receive personalized recommendations.
- Technologies: Spring Boot, React, MongoDB, Redux.

10. AI Industry: Sentiment Analysis Tool

- An application that analyzes text data to determine sentiment (positive, negative, neutral).
- Technologies: Spring Boot, React, Natural Language Processing (NLP) libraries.

11. AI Industry: Image Recognition System

- A system capable of recognizing objects and patterns in images.
- Technologies: Spring Boot, React, TensorFlow, Convolutional Neural Networks (CNN).

12. AI Industry: AI-powered Chatbot

- A chatbot that uses natural language understanding to assist users with inquiries.
- Technologies: Spring Boot, React, Dialogflow, WebSocket.

13. AI Industry: Recommendation Engine

- An engine that provides personalized recommendations based on user behavior.
- Technologies: Spring Boot, React, Apache Mahout, Collaborative Filtering.

14. Education Industry: E-Learning Platform

- An online learning platform offering courses, quizzes, and progress tracking.
- Technologies: Spring Boot, React, MongoDB, Redux.

15. Education Industry: Virtual Classroom

- A virtual classroom application facilitating real-time interactions between teachers and students.
- Technologies: Spring Boot, React, WebSockets, WebRTC.

16. Finance Industry: Personal Finance Manager

- An app for users to track expenses, set budgets, and analyze financial data.
- Technologies: Spring Boot, React, Chart.js for data visualization.

17. Finance Industry: Stock Portfolio Tracker

- An application to track and manage a user's stock portfolio and investments.
- Technologies: Spring Boot, React, Alpha Vantage API for real-time stock data.

18. E-commerce Industry: Online Marketplace

- A multi-vendor platform where users can buy and sell products online.
- Technologies: Spring Boot, React, Stripe for payments, Elasticsearch for product search.

19. E-commerce Industry: Product Recommendation System

- A system that provides product recommendations based on user behavior and preferences.
- Technologies: Spring Boot, React, Apache Spark, Collaborative Filtering.

20. Logistics Industry: Package Tracking System

- An application for tracking the status and location of packages during transit.
- Technologies: Spring Boot, React, Mapbox for maps integration.

21. Travel Industry: Travel Planner

- An app to help users plan their trips, including itinerary creation and booking recommendations.
- Technologies: Spring Boot, React, Google Places API for location data.

22. Social Media Industry: Social Network Platform

- A social media platform for users to connect, share posts, and interact with others.
- Technologies: Spring Boot, React, WebSocket, Firebase Realtime Database.

23. Gaming Industry: Multiplayer Game Server

- A backend server for managing real-time multiplayer gaming sessions.
- Technologies: Spring Boot, React, Socket.io for real-time communication.

24. Real Estate Industry: Property Listing Portal

- A platform to list and search for properties for buying, selling, or renting.
- Technologies: Spring Boot, React, Elasticsearch for property search.

25. IoT Industry: Smart Home Automation

- An application to control smart home devices and monitor home security remotely.
- Technologies: Spring Boot, React, MQTT for IoT device communication.