

# Java Full Stack Project Proposal

## Slide 1: Title Slide

- **Project Name:** Java Full Stack Web Application
- **Subtitle:** Beginner's Guide to Full Stack Development
- **Presented by:** [Your Team's Name]
- **University Name:** [Your Team's Name]
- **Date:** [Date]

## Slide 2: Team Members

- **Team Leader:**
  - Name
  - Roll number
  - department
- **Member 2:**
  - Name
  - Roll number
  - department
- **Member 3:**
  - Name
  - Roll number
  - department

## Slide 3: Project Overview

- **Project Goal:** Build a simple full-stack web application (e.g., user management system, e-commerce platform, etc.).
- **Key Features:**
  - User Authentication (Login/Signup)
  - CRUD operations (Create, Read, Update, Delete)
  - Responsive UI
  - Data persistence with a database

## Slide 4: Technologies Used

- **Frontend:**
  - HTML, CSS, JavaScript, React
- **Backend:**
  - Java, Spring Boot (for REST APIs)
- **Database:**

- MongoDB
- **Tools:**
  - Git (Version Control)
  - Vercel, Heroku, Render

## Slide 5: Simple Architecture

- **Frontend (UI):**
  - HTML/CSS for layout, JavaScript/React for interactivity.
- **Backend (Server):**
  - Spring Boot REST APIs to handle business logic.
- **Database:**
  - MongoDB for storing user and product data.

*Include a simple diagram showing Frontend (React) → Backend (Spring Boot API) → Database (MySQL).*

## Slide 6: Member Responsibilities

- **Member 1** (Frontend Developer):
  - Build the UI with HTML, CSS, and React.
  - Focus on user experience (responsive design).
  - **Link to Syllabus:** Implement basic data structures (Arrays) to handle UI-related data.
- **Member 2** (Backend Developer):
  - Develop REST APIs using Java and Spring Boot.
  - Handle business logic and connect with the database.
  - **Link to Syllabus:** Use linked lists and trees (for managing dynamic data and sorting operations).
- **Member 3** (Database & Deployment Developer):
  - Set up and manage the MongoDB database.
  - Ensure the application is deployable using cloud services.
  - **Link to Syllabus:** Use knowledge of database structures and sorting algorithms for efficient data storage.

## Slide 8: Conclusion

- **Project Overview Recap:** A beginner-friendly full-stack application with frontend, backend, and database.
- **Expected Outcome:** The team will develop practical skills in frontend and backend technologies, working collaboratively on a complete application.