

Netflix AI Chatbot - Interview Q&A with Answers

Spring Boot

Spring Boot simplifies enterprise Java development using auto-configuration, embedded Tomcat, and minimal XML. It structures applications using annotations (@Controller, @Service, @Repository) and dependency injection. It's ideal for REST API development, integrates with MongoDB, and supports Spring Security with JWT for authentication.

React.js

React.js is a frontend library for building fast, reusable UIs. It uses JSX, virtual DOM, and hooks like useState and useEffect for state management. React Router handles navigation, Axios handles API calls, and Context API or Redux can manage global state. It promotes a component-based architecture with high reusability.

JWT (JSON Web Token)

JWT provides stateless authentication through tokens containing Header, Payload, and Signature. Generated on login, JWTs store user info securely and validate access for API endpoints. They are preferred over session-based authentication because they're lightweight, scalable, and easy to validate via secret keys.

Java Core

Java is an OOP language emphasizing encapsulation, inheritance, polymorphism, and abstraction. It supports exception handling, multithreading, and memory management through garbage collection. Core topics include collections (List, Map, Set), streams, lambda expressions, and functional interfaces introduced in Java 8.

MongoDB

MongoDB is a NoSQL database that stores documents in JSON-like BSON format. It supports dynamic schema, scalability, and fast queries via indexing. CRUD operations and aggregation pipelines are simple. In Spring Boot, MongoDB connects easily using Spring Data MongoDB.

repositories for object-document mapping.

Llama (Ollama)

Llama 3 is a local LLM from Meta, used with Ollama - a lightweight framework that runs AI models locally. It communicates via HTTP (port 11434). In Spring Boot, the Spring AI library integrates Llama with ChatClient for text-based AI interaction. Parameters like temperature and context window fine-tune AI output.