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## JHipster Interview Questions

### Q1. What is Java hipster?

**Java Hipster** or **JHipster** is an open-source tool to create a modern web application using **Angular** or **React** and the **Spring framework**. The client-side technologies used in the JHipster are **Yeoman, Webpack, Angular, React, and Bootstrap**.

The **server-side** technologies used in the development are **Maven, Spring, Netflix OSS, Spring Data JPA, Spring MVC REST**.

Other major functionalities of JHipster are **database migrations, generating CRUD entities, NoSQL support, Websockets support, and Elasticsearch support**.

### Q2. Is JHipster open source?

Yes. **JHipster** is a free open-source tool.

### Q3. What is registry in JHipster ?

The **JHipster Registry** is an open-source runtime **application** that is licensed under **Apache 2**.

It has three main purposes. They are,

1. It acts as an administration server. It has dashboards to monitor and manage applications.
2. It is a Eureka server. It works as a discovery server for other applications. Using this, **JHipster handles routing, load balancing, and scalability**.
3. It is a Spring Cloud Config Server. It provides runtime configuration to all applications.

### Q4. Enlist few popular companies using JHipster?

The companies that use **JHipster** are

Accenture, Adobe, Atos, AccorHotels, Banco Sabatell, Bank of the West, Bosch, Barclays Capital, CERN, CGI, Carrefour, Google, HBO, HCL, HSBC, Hewlett Packard, Infotel, Ippon Technologies, Malaysian Airlines, Leroy Merlin, Manpower, NewWave, Orange, Pivotal, Scotland Police, Rolls-Royce, SFR, Siemens, TCS, Tesco, Zenika, Yellow Pages Group, XebiaLabs, and much more.

## Q5. What is difference between Monolithic and Microservice?

A **monolithic** architecture application is built as a single unit. This architecture uses a single, one-size-fits-all application. It contains both the front-end code and the back-end code. These applications are simple to develop and test. They are also easy to deploy and scale up when needed.

But it has many drawbacks such as **slow startup time, difficult continuous deployment, less reliable among others.**

**In contrast, Microservice** architecture splits the frontend and the backend. It makes it easier for your application to scale up. It also increases the reliability of your application in case of infrastructure issues. It has benefits such as it enables the service to be deployed independently. It is easy to adopt new technology with this architecture. There are also many disadvantages to using this architecture.

**When** comparing both the services, it is better to use the **monolithic architecture** if your application doesn't have any specific requirements.

## Q6. List microservice components of JHipster?

**The components present in the microservice architecture are,**

**Traefik** - It is an HTTP load balancer and reverse proxy that works with the gateway.

**JHipster Registry** - All the other registers get their configuration from this runtime application. It also provides runtime monitoring dashboards.

**Consul** - It is a key/value store and service discovery service. It is used as an alternative to the JHipster registry.

**JHipster Console** - It is a monitoring and alerting console. It is based on the ELK stack.

**Microservices** - These are the JHipster generated applications. They are stateless and handle the REST requests. Multiple microservices can be launched in parallel to handle heavy loads.

**Gateway** - It is a JHipster generated application. It is used to handle web traffic. It also serves as an Angular/React application.

**JHipster UAA** - It is a JHipster-based User Authentication and Authorization system. It uses the OAuth2 protocol.

## Q7. How to install JHipster using npm?

To install JHipster using **npm**, it is necessary that you have **Java 11**. Also, **Node.js** is needed to use npm. Then, type the following command to install the JHipster. **npm, install -g generator-jhipster.**

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