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Java Full Stack Project Ideas

Published On: July 20, 2024

Java Full Stack Project Ideas

Java full-stack development creates an application's front and back end with the Java programming language. It thoroughly explains every facet of web programming, including user interfaces, databases, and servers. We'll look at 5 fascinating full-stack Java project ideas that you may include in your portfolio to show off your abilities throughout the stack.

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1. Task Manager App

Objective: To create a personal task and to-do list management tool like Trello or Asana. Add functions such as tracking progress, due dates, reminders, and categorization.

Description: This web application allows any corporation to assign tasks to its staff members. This project is composed of many smaller parts, including task creation, employee, user, and customer information, file uploading and downloading, task forwarding, crystal reports, and changing pre-existing projects.
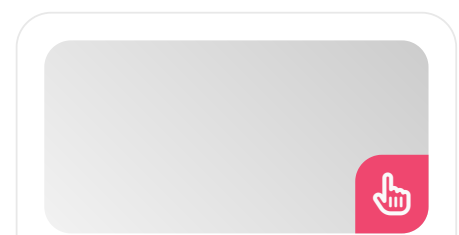
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We are using SQL Server, Java, and other full-stack technology components in this project.

Key Components:

- **User Authentication:** Using their username and password, users can safely log in to the program.
- **Task Management:** Users can create new tasks, change existing ones, delete tasks, etc.
- **Task sorting:** By arranging jobs according to priority, high-priority tasks are more easily found.
- **Task data:** The program stores tasks in a file called tasks.txt to enable file-based persistence, which allows it to remain persistent across sessions.

Skills Attained:

- Expertise in Java programming language.
- Proficiency in Java Swing framework.
- Hands-on experience with SQL Server.
- Knowledge of IDE (Apache NetBeans)
- Usage of Git platform.

2. Weather Application

Objective: To create a simple Java full-stack weather app combining online services, user interfaces, and data processing. Learn how to present meteorological data to users, retrieve it via an API, and create an intuitive user experience.

Description: Java's ability to accept web requests and create user interfaces makes it a flexible language for developing weather apps. You can create a weather app that gathers information from a weather API, processes it, and presents it to users in an easy-to-use style.

Key Components:

- Acquire an API key from a weather data supplier (OpenWeatherMap).
- After setting up your programming environment, create a Java project.
- To handle the data and submit API queries, write Java code.
- Create a user interface so that users may see the weather information.

Skills Attained:

- Java Development Kit (JDK)
- A complete understanding of Java programming and full-stack ideas.
- An IntelliJ IDEA or Eclipse-style Java integrated development environment (IDE).
- Proficiency with data retrieval via online APIs.

[**Java Full Stack Syllabus PDF**](#)

3. E-Commerce App

Objective: To create an online store that works perfectly, complete with checkouts, payments, and shopping carts. To implement important processes like checkout, payments, cart management, authentication, and product search/filters. Incorporate Stripe payments.

Description: This project offers a basic foundation in Spring Boot, MVC, MySQL, and Hibernate, making it an easy setup for beginners.

Key Components:

- **Customer management:** You may quickly add, amend, and remove customer data.
- **Inventory management:** Maintain tabs on the products in your inventory, including their prices and stock levels.
- **User authentication:** Safe login and verification for employees and administrators.
- **Role-Based Access Control:** Assign rights and roles to various user categories.

demand for Java Full-Stack developers is increasing in the job...

- **Database Integration:** Data storage is integrated with MySQL.

Skills Attained:

- Knowledge of a backend framework called Spring Boot, which is used to create Java-based online applications.
- Expertise with MySQL, which is a data storage management solution based on relational databases.
- Understanding of IDE/Tool: Eclipse-based Spring Tool Suite 4.

4. Phone Book Directory App

Objective: To create a phone book using MySQL and Java. To use the JDBC API to manage database connectivity and Swing to construct the GUI. Make it accessible for anyone to use this software to organize and manage their contacts.

Description: It is difficult to store official and personal contact details in our physical storage components. In this project, you can learn to develop a phone book to manage an organization's contact details that can be accessed using any information.

Key Components:

- View every contact's details.
- Enter the phone number, country, first and last names, and search terms.
- Modify a contact entry.
- Eliminate a contact entry.

Skills Attained:

- Understanding the NetBeans IDE to create a project.
- Hands-on with MySQL for DB connection.
- Knowledge of Java Swing, AWT, and so on.

Java Full Stack Interview Questions

5. Inventory Management System

Objective: To develop a full-stack Java project for an inventory management system using MySQL. Swing is used to construct the GUI, while the JDBC API is used to control database connectivity.

Description: With the credentials root as the username and root as the password, the Stock/Inventory Manager can log in and control the stock. Each small store can benefit from these kinds of programs to keep and manage its sales, product, customer, and current stock inventories.

Key Components:

- View every product currently in stock and add a new product detail.
- Check out the stock now.
- View all of your customers, add a new one, and remove any information about them.
- Monitor every sale from the past and add new sales data.

Skills Attained:

- Expertise with MySQL Server and MySQL Connector.
- Proficiency in Swing, AWT, and JDBC.
- Understanding the SQL Exception class.

Java Full Stack Training

Conclusion

Java full-stack project development is an excellent option in the dynamic and cutthroat world of today. Keep in mind that the list of Java full-stack project ideas above is not all-inclusive. You can work on a lot more full-stack projects through our **Java full-stack training in Chennai.**

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