OPSTREE
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Divyanshu Shrivastava

Software Developer

Project Work

Java Projects

E-Commerce Platform (Java, Spring Boot, Maven, RESTful APIs, Microservices)

Developed a microservices-based e-commerce platform using Java and Spring Boot. The platform provides a comprehensive suite of features that enable businesses to sell their products online.

Product Management : Implemented CRUD operations for product management using Spring Data JPA and Hibernate. Category Management: Developed category management functionality with RESTful APIs using Spring MVC.

Exception Handling: Implemented robust exception handling using Spring's @ControllerAdvice and @ExceptionHandler. Microservices Architecture: Designed the application following the microservices architecture pattern for better scalability and maintainability.

Technical Skills

Architecture	:	Microservice
Language	:	Java
Web Server	:	Spring boot
Version Control	:	Git, Github
Operating System	:	Linux, Windows
Build Tool	:	Maven
Database	:	MySQL
Web service	:	Rest API

BookMyShow Backend System (Java, Spring Boot, MySQL, SOLID Principles, Design Patterns)

Developed a high-performance backend system for BookMyShow, a leading online ticketing platform, using advanced Java technologies and MySQL database. The system efficiently manages seat availability, handles concurrent booking requests, and ensures data integrity.

Concurrency Control: Implemented pessimistic locking using Spring Boot's transaction management and MySQL's locking mechanisms to ensure data consistency and prevent booking conflicts.

Resource Optimization: Leveraged concurrent data structures and synchronization primitives in Core and Advanced Java to optimize resource utilization during seat booking operations, thereby minimizing contention and enhancing performance under high concurrency.

Scalability: Applied SOLID principles and design patterns to architect a scalable backend system capable of handling a large volume of concurrent booking requests while maintaining high reliability and maintainability.

Database Management: Utilized MySQL for managing seat availability and booking data, leveraging its robust transaction support and locking mechanisms to enhance data integrity and concurrency control

Language	:	Java
Web Server	:	Spring boot
Version Control	:	Git, Github
Operating System	:	Linux, Windows
Build Tool	:	Maven
Database	:	MySQL
Web service	:	Rest API

PYTHON PROJECTS

Caesar Cipher Program

- Developed a Python program for encoding and decoding messages using the classic Caesar cipher encryption technique.
- Implemented a shift-based algorithm to ensure message confidentiality.

Blind Auction Program

- Engineered a Python-based application facilitating anonymous bidding processes for governmental and private sector auctions.
- Designed to maintain the confidentiality of bids, ensuring a fair and competitive auction environment.
- Implemented robust algorithms to handle bid processing and winner determination with integrity.

Password Generator

- Developed a Python application designed to create robust and secure passwords, addressing the critical need for enhanced cybersecurity.
- The program generates complex passwords by combining alphanumeric and special characters, significantly reducing the risk of unauthorized access.

EDUCATION
2023-2024
Scaler Specialized in Software Development & Problem Solving

2018-2022
Sagar Institute Of Science And Technology
B.Tech (Electrical And Electronics) , CGPA – 8.01

- 2015
S.L.S memorial school, Sagar(M.P)
12th , 58%

HOBBY
Reading , Programming

ACHIEVEMENTS
Solve 310+ problems of DSA, SQL and development from Scaler.

LANGUAGES
English Hindi

SKILLS
Courteous with strong service mindset
Adaptability
Calm and professional under pressure
Clear communication skills
Team Work
Upbeat and positive personality
Effective listening

Soft SKILLS
Java, Python, Git, Data Structure, Algorithms, LLD, MYSQL

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