10 Java projects
from beginner to advanced
(With Code Samples)

Author: https://www.linkedin.com/in/shehan-chanuka-dev/

1. <u>Calculator</u>

A calculator is a classic beginner Java project that involves implementing basic arithmetic operations like addition, subtraction, multiplication, and division. You can start by building a command-line interface that takes user input and performs the requested operation. As you advance, you can add more advanced features like support for decimal numbers, exponentiation, and more.

GitHub Repo:

https://github.com/pH-7/Simple-Java-Calculator

Author: https://www.linkedin.com/in/shehan-chanuka-dev/

2. Tic Tac Toe

 Tic Tac Toe is another classic beginner Java project that involves creating a game board and implementing the logic for playing the game. You can start with a basic console-based version of the game and then move on to creating a graphical user interface (GUI) version with buttons and visual feedback.

GitHub Repo:

https://github.com/akgarg0472/JavaFX_TicTacToe

Author: https://www.linkedin.com/in/shehan-chanuka-dev/

3. Bank Management System

A bank management system is a more advanced Java project that involves building a software application for managing banking operations like account opening, deposit and withdrawal, balance inquiry, and transaction history. You can start by designing a simple user interface and implementing the logic for storing and retrieving data in a database.

GitHub Repo:

https://github.com/ssoad/BankingSystem

Author: https://www.linkedin.com/in/shehan-chanuka-dev/

4. Library Management System

A library management system is another advanced Java project that involves building a software application for managing library operations like book search, checkout and return, book reservation, and late fee calculation. You can start by designing a user-friendly interface and implementing the logic for storing and retrieving data in a database.

GitHub Repo:
https://github.com/OSSpk/Library-Management-System-JAVA

Author: https://www.linkedin.com/in/shehan-chanuka-dev/

5. Online Quiz

An online quiz is a Java project that involves creating a web-based application for administering quizzes and providing instant feedback to users. You can start by designing a basic user interface and implementing the logic for retrieving questions from a database and scoring user responses.

GitHub Repo:

https://github.com/Shahzayb/vuquiz

Author: https://www.linkedin.com/in/shehan-chanuka-dev/

6. Online Marketplace

 An online marketplace is a more complex Java project that involves building a web-based application for buying and selling goods or services. You can start by designing a user-friendly interface and implementing the logic for managing user accounts, product listings, payments, and shipping.

GitHub Repo:

https://github.com/jaygajera17/E-commerce-project-springBoot

Author: https://www.linkedin.com/in/shehan-chanuka-dev/

7. Social Media Platform

A social media platform is an advanced Java project that involves building a web-based application for connecting users and facilitating social interactions like posting messages, commenting, liking, and sharing. You can start by designing a responsive and intuitive user interface and implementing the logic for storing and retrieving data in a database.

GitHub Repo:

https://github.com/Mufaddal5253110/Instagram-clone

8. Content Management System

A content management system (CMS) is a Java project that involves building a software application for creating, managing, and publishing digital content like articles, images, and videos. You can start by designing a user-friendly interface and implementing the logic for storing and retrieving data in a database.

GitHub Repo:

https://github.com/dotCMS/core

Author: https://www.linkedin.com/in/shehan-chanuka-dev/

9. Artificial Intelligence Chatbot

An artificial intelligence (AI) chatbot is an advanced Java project that involves building a software application that can converse with users using natural language processing (NLP) and machine learning techniques. You can start by designing a conversational interface and implementing the logic for training the chatbot using a dataset.

GitHub Repo:

https://github.com/gazalpatel/AI-Chat-Bot

10. Machine Learning Model

A machine learning (ML) model is a Java project that involves building a software application that can learn from data and make predictions or classifications. You can start by choosing a dataset and selecting a machine learning algorithm, then implementing the logic for training the model and evaluating its performance.

GitHub Repo:
https://github.com/rahul-raj/Java-Deep-Learning-Cookbook

Author: https://www.linkedin.com/in/shehan-chanuka-dev/

Thank You

Follow me for more content

Author: https://www.linkedin.com/in/shehan-chanuka-dev/