

# PROJECT DOCUMENTATION CODECLAUSE INTERNSHIP

Project ID - #CC5253	
Project Title - To-Do List Application	
Internship Domain - Java Development Intern	
Project Level - Entry Level	
Assigned By- CodeClause Internship	
Assigned To- Pushpit Sahay	

Start Date - 01 May 2024 End Date - 31 May 2024
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# **Project Details-**

#### Aim -

Develop a simple to-do list application where users can add, edit, and remove tasks.

## **Description-**

Implement a console-based to-do list application that supports adding, editing, and deleting tasks.

## Technologies-

Java

You can use other technologies that you know.

#### What You Learn-

Basic task management, user input handling.

Project ID - #CC5254	
Project Title - Employee Management System	
Internship Domain - Java Development Intern	
Project Level - Intermediate Level	
Assigned By- CodeClause Internship	
Assigned To- Pushpit Sahay	

# **Project Details-**

#### Aim -

Create an employee management system to handle employee details, payroll, and attendance.

## **Description-**

Develop a Java application that supports CRUD operations for employee data, payroll calculations, and attendance tracking.

## Technologies-

Java, JavaSwing for UI, Database (e.g., MySQL) for data storage. You can use other technologies that you know.

#### What You Learn-

UI enhancements, database operations, employee management.

Project ID - #CC5256	
Project Title - Face Authentication System	
Internship Domain - Java Development Intern	
Project Level - Golden Level	
Assigned By- CodeClause Internship	
Assigned To- Pushpit Sahay	

# <u>Project Details-</u>

#### Aim -

Implement a secure face authentication system using Java with features like user registration, face enrollment, and subsequent authentication.

## **Description-**

Build a Java application that allows users to register by enrolling their facial features. Develop algorithms for capturing, storing, and recognizing facial patterns. Implement a secure login system that verifies the user's identity through facial recognition.

## Technologies-

Java, OpenCV for face detection and recognition, Java Swing/ Java Fxfor UI, File I/O for storing facial features.

You can use other technologies that you know.

#### What You Learn-

Image processing with OpenCV, JavaFX for UI design, File handling for storing and retrieving facial features, Basics of biometric authentication.

Project ID - #CC5256	
Project Title - Virtual Private Network (VPN) Implementation in Java	
Internship Domain - Java Development Intern	
Project Level - Golden Level	
Assigned By- CodeClause Internship	
Assigned To- Pushpit Sahay	
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Start Date - 01 May 2024	End Date - 31 May 2024
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# **Project Details-**

#### Aim -

Develop a simple VPN application in Java to create a secure, encrypted communication channel over the internet.

## **Description-**

Build a Java-based VPN system that allows users to establish a secure connection between two computers. Implement encryption and decryption algorithms to secure the data transmitted over the network. Provide functionalities for key exchange and secure communication.

## Technologies-

Java for application development, Encryption algorithms (e.g., AES), Socket programming for network communication.

You can use other technologies that you know.

#### What You Learn-

Understanding VPN protocols, Java socket programming, Encryption techniques, Secure communication principles.

## Instructions-

- 1. There are no technology restrictions for project development. You are free to use any technology you are familiar with..
- 2. Ensure timely submission of projects before the deadlines.
- 3. There are no restrictions on completing entry-level and intermediate projects.
- 4. Avoid copying and pasting code. Be original in your submissions.
- 5. Upon completion, submit your all projects on app.internship.codeclause.com.

# **Eligibility Criteria:**

- 1. Completion of one project makes you eligible for a certificate.
- 2. Completion of two projects (entry-level and intermediate) qualifies you for a certificate and Letter of Recommendation (LoR).
- 3. Completion of two projects (entry-level and intermediate) with one golden project makes you eligible for swags verification.
- 4. It only eligibles to you for swags verification it doesn't means that you are eligible for swags.
  - 5. There are two golden projects you need to do any of them.
  - 6. There is not technology restrictions for projects.
  - 7. If project found copied then you are eligible for swgas.
  - 8. If golden project needs to be dynamic and proper working.
- 9. Console based projects are not eligible for swags. Proper Ui is required to eligible for swags.
- 10. Needs to post video of demo of golden project on LinkedIn and it should includes only the output of project no need to share the code.