



JAVA PROGRAMMING INTERNSHIP PROGRAM

level I

SkillNova

www.skillnovatech.in



WELCOME TO OUR INTERNSHIP PROGRAM

- Kickstart Your Java Programming Career
- Gain hands-on experience & build real-world projects
- Earn a valuable internship certificate



ABOUT US

SKILLNOVA

is a vibrant and diverse community that brings together individuals with similar objectives and ultimate goals. Our main focus is on creating opportunities that span various areas, including leadership development, learning, student engagement, and fostering shared interests.

We believe in the power of leadership and its ability to drive positive change. That's why we provide platforms and resources for our community members to develop their leadership skills. Through mentorship programs, workshops, and collaborative projects, we empower individuals to take on leadership roles and make a difference in their respective fields.





INSTRUCTIONS

UPDATE YOUR LINKEDIN PROFILES
FOR A WEB DEVELOPMENT INTERNSHIP, YOU WILL NEED TO
COMPLETE ANY THREE PROJECTS AT YOUR CONVENIENCE
FOR SUCCESSFUL COMPLETION OF THE INTERNSHIP.

MAINTAIN A SEPARATE GITHUB REPOSITORY
(NAME SKILLNOVA FOR ALL THE TASKS AND SHARE THE LINK
OF THE GITHUB REPO IN THE TASK SUBMISSION FORM.
(IT WILL BE GIVEN LATER THROUGH EMAIL).

YOU CAN REFER TO ONLINE RESOURCES SUCH AS GOOGLE SEARCH
AND READ TUTORIALS.





SUBMISSION

A TASK SUBMISSION FORM will be shared later through email.

Till then please continue your task.

A video need to be created to showcase your work, demo of your effort.

The video can be hosted on LinkedIn for proof of your work and build credibility among your peers.

You can tag SkillNova in such post s.

Please add #SkillNova in each of your task video pos tings on LinkedIn, Additionally, you can al so add hashtags such as #internship #datascience. for more reach and visibility.





INTERNSHIP STRUCTURE

- Duration: 4 Weeks
- Mode: Online, Self-Paced
- Components: Weekly MCQs + Final Project
- Assessment: Complete all assignments & submit the projects



WEEKLY ASSIGNMENTS SCHEDULE

- Week 1: Java Basics (Syntax, OOP).
- Week 2: Advanced Java (Collections, Multithreading).
- Week 3: Spring Boot Basics (REST APIs).
- Week 4: Database Integration (Hibernate).



WEEKLY PROJECTS SCHEDULE

- Week 1: Student Management System (Console-based).
- Week 2: Multi-threaded File Downloader.
- Week 3: REST API for a Library Management System.
- Week 4: E-commerce Backend with Spring Boot.



FINAL PROJECT SUBMISSION

- Choose three project from the given options
- Implement concepts learned during the internship
- Submit the project before the deadline



PROJECT 1: STUDENT MANAGEMENT SYSTEM (CONSOLE-BASED)

Tools:

- IDE: IntelliJ IDEA, Eclipse, or NetBeans.
- Libraries: Java Standard Library.

Materials:

1. Tutorials:

- [Java Basics Tutorial](#)
- [Java OOP Concepts](#)

2. Tasks:

- Create a console-based application to manage student records (add, view, update, delete).
- Use arrays or ArrayLists to store data.
- Implement basic input/output using Scanner.

Bonus Feature:

- Save student data to a text file using FileWriter.

PROJECT 2: MULTI-THREADED FILE DOWNLOADER



Tools:

- IDE: IntelliJ IDEA, Eclipse, or NetBeans.
- Libraries: Java Standard Library (java.net, java.io).

Materials:

1. Tutorials:

- [Java Multithreading Tutorial](#)
- [Java Networking Tutorial](#)

2. Tasks:

- Create a program to download multiple files simultaneously using threads.
- Use URL and InputStream to download files.
- Display download progress.

Bonus Feature:

- Add a progress bar using console output.

PROJECT 3: REST API FOR A LIBRARY MANAGEMENT SYSTEM



Tools:

- IDE: IntelliJ IDEA, Eclipse, or NetBeans.
- Frameworks: Spring Boot, Hibernate.
- Database: MySQL.

Materials:

1. Tutorials:

- [Spring Boot Tutorial](#)
- [REST API with Spring Boot](#)

2. Tasks:

- Create REST endpoints for managing books and users (CRUD operations).
- Use Hibernate for database integration.
- Test APIs using Postman.

Bonus Feature:

- Add search and filter functionality for books.



PROJECT 4: E-COMMERCE BACKEND WITH SPRING BOOT

Tools:

- IDE: IntelliJ IDEA, Eclipse, or NetBeans.
- Frameworks: Spring Boot, Hibernate.
- Database: MySQL.

Materials:

1. Tutorials:

- [Spring Boot and Hibernate Tutorial](#)
- [E-commerce Backend Tutorial](#)

2. Tasks:

- Implement product management, user authentication, and order processing.
- Use JWT for authentication.
- Integrate with a payment gateway (e.g., Stripe).

Bonus Feature:

- Add email notifications for order confirmation.




CERTIFICATE & COMPLETION

- Complete all assignments & submit your final project.
- Receive your internship certificate.
- Enhance your resume & boost your career.



CONTACT & SUPPORT

- Email: contact.skillnova@gmail.com 
- Website: skillnovatech.in 
- Follow us on Social Media 

