SkillBuildEra

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Project Timeline: One Project, One Week

Efficiently manage your project development cycle by dedicating a focused week to each core project.

Day 1-2: Planning & Design — **1**

Define project scope, sketch out user interface designs, and plan database schemas and API endpoints. Create wireframes and mockups to visualize the final product.

2 — ## Day 3-4: Frontend Development

Build the user-facing part of the application using HTML, CSS, and JavaScript. Implement responsive design principles to ensure compatibility across various devices and screen sizes.

Day 5: Backend Development — **3**

Set up the server, develop API endpoints for data exchange, and integrate with the chosen database. Focus on robust data handling and security protocols.

4 — ## Day 6: Testing & Debugging

Thoroughly test all functionalities, identify and resolve bugs, and ensure the application runs smoothly. Conduct user acceptance testing (UAT) to gather feedback.

Day 7: Deployment & Review — **5**

Deploy the project to a live server, make it accessible to users, and gather initial feedback. Document the development process and plan for future iterations or enhancements.

Internship Instructions

At SkillBuildera, we believe in learning by doing. During your internship, you will work on practical, real-world tasks that help you build strong technical and professional skills while showcasing your growth as a learner and future professional.

Important Guidelines:

1 **Official Start**

Begin tasks only after your internship officially starts, as indicated in your Offer Letter email.

2 **Domain Focus**

Complete tasks exclusively within your selected domain, as specified in your offer letter.

3 **Certificate Eligibility**

A minimum of 4 completed tasks in your track is mandatory for the Internship Completion Certificate.

4 **Learning Approach**

This is a self-paced, learning-oriented internship with no live training; utilize your own resources.

5 **Flexible Schedule**

Manage your working hours flexibly, ensuring all assigned tasks are completed on time.

intern instruction

1 Be on time and professional

2 Follow instructions and ask questions

3 Complete tasks responsibly

4 Respect rules and confidentiality

5 Communicate with your supervisor

Java Development: 5 Practical Projects

Master Java through hands-on development experience with real-world applications

Project 1: Number System Converter

What It Does

Seamlessly converts numbers between binary, decimal, octal, and hexadecimal systems with instant accuracy.
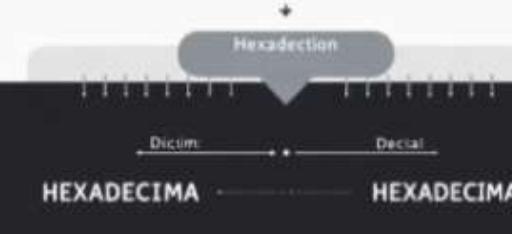
Key Learning Outcomes

- Master Java data types and type conversion
- Implement control structures and loops
- Handle user input validation effectively

Project 3: Online Quiz Web Application

01

Question Presentation

Dynamic multiple-choice questions fetched from database with clean, responsive interface

02

User Response Capture
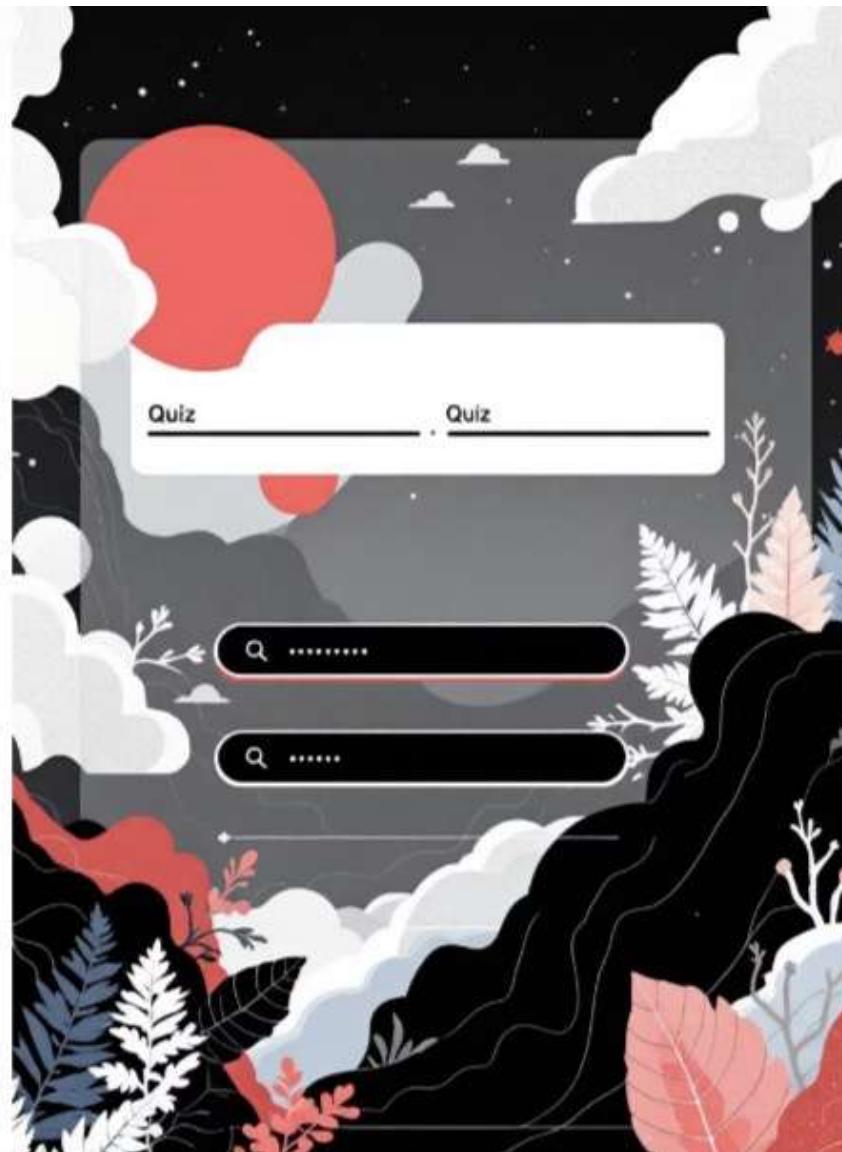
Efficient session management tracks answers and maintains quiz state

03
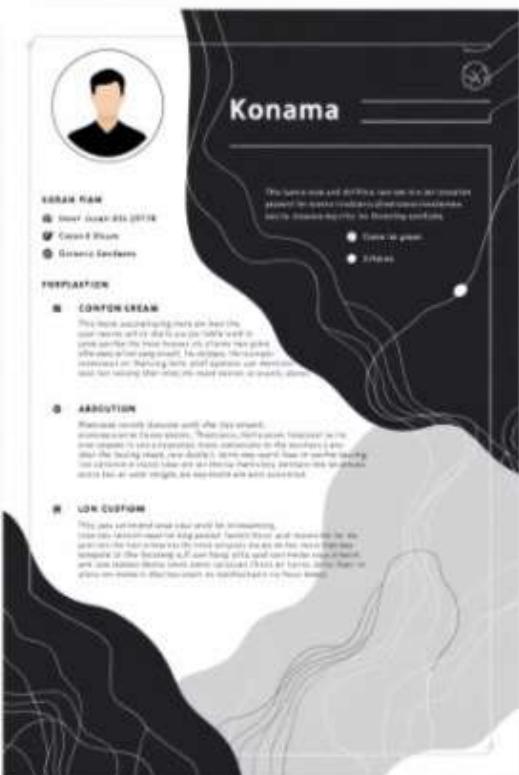
Automatic Scoring

Real-time evaluation with instant feedback and detailed results

📝 **Technologies:** Utilises Servlets for request handling, JSP for dynamic content rendering, and JDBC for seamless database connectivity—essential skills for enterprise Java development.

Project 4: Resume Builder Application
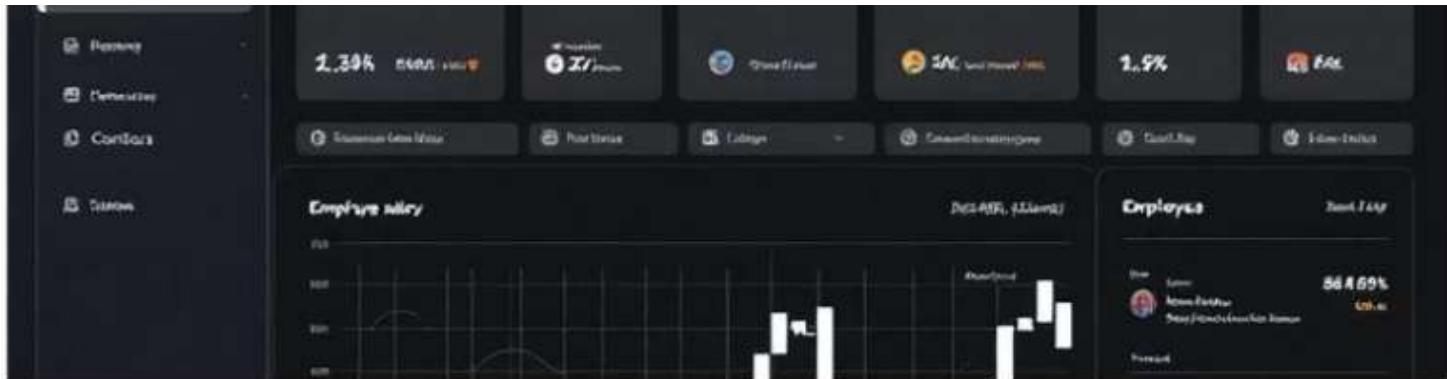
Transform Details into Professional Documents

Users input personal information, educational qualifications, work experience, and skills through an intuitive interface.

- Multiple professional resume templates
- Real-time preview of formatting
- Export to PDF or Word formats
- Save and edit functionality

Technical Highlights: Demonstrates Java I/O streams, GUI design with Swing/JavaFX, and template-based document generation using file handling.

Project 5: Payroll Management System

Employee Records

Comprehensive database storing personal details, designation, and salary structure

Salary Calculation

Automated computation including allowances, deductions, taxes, and bonuses

Payroll Reports

Generate detailed payslips and management reports with one click

This enterprise-grade application showcases **JDBC connectivity**, complex business logic implementation, and professional

Why Build These Projects?

1

Apply Java Fundamentals

Transform theoretical knowledge into practical applications by implementing core concepts in real-world scenarios.

2

Master Multiple Domains

Gain hands-on experience with GUI development, web applications, and database programming in one comprehensive journey.

3

Build Career Portfolio

Create an impressive showcase of diverse Java skills that demonstrates your capability to potential employers.

Your Java Journey Starts Here

Bridge Theory & Practice

These projects transform classroom learning into professional development skills

Build Confidence

Debug real issues, solve actual problems, and see your code come to life

Showcase Your Skills

Deploy applications that demonstrate your readiness for the industry

Ready to develop, debug, and deploy real Java applications!

Let's code the future with Java—one project at a time. Your transformation from learner to developer begins now.