

# JAVA FULL STACK DEVELOPMENT

CRAFT POWERFUL APPLICATIONS FROM START TO FINISH!



JOIN GRRAS FOR  
JOB READY SKILLS

# Why is Java Full Stack Development Important?

Java Full Stack Development is important for several reasons, making it a highly sought-after skill in the tech industry. Here are some key points highlighting its significance:



## Versatility & Flexibility

Java Full Stack developers can work on both the front-end (client-side) and back-end (server-side) of applications. This makes them adaptable, capable of managing various aspects of web and software development projects.



## Cost-Effectiveness for Companies

Hiring a Full Stack developer means companies get someone who can handle multiple roles, reducing the need for specialized teams. This leads to lower hiring costs and better resource management.



## End-to-End Solutions

Full Stack developers understand the entire project architecture, allowing them to create complete solutions from start to finish. This ensures better communication, faster development, and fewer errors in integrating different components.



## High Demand & Job Opportunities

Full Stack Development is in high demand as companies seek individuals who can contribute to various phases of a project. The wide skill set opens more job opportunities with attractive salaries.



## Rapid Prototyping

Full Stack developers can quickly build and test prototypes, which is essential for startups and businesses looking to validate ideas without a heavy investment in separate teams.



## Better Troubleshooting

With knowledge of both front-end and back-end, Full Stack developers are better equipped to troubleshoot and debug issues across the entire stack, ensuring smoother performance of applications.

# Market Demand and Growth & Job Opportunities

The market demand and growth for Java Full Stack Development are exceptionally strong, driven by the increasing need for versatile developers who can manage both front-end and back-end operations.

## Legacy and Modern Apps

Many legacy applications are written in Java, and companies require Java Full Stack developers to maintain, upgrade, or modernize these systems.

## E-commerce Boom

As online retail and e-commerce continue to expand, so does the need for full-stack developers to create secure, scalable, and user-friendly platforms.

## Enterprise Solutions

Many enterprises are digitizing their operations, requiring robust applications that can handle large-scale data and user management. Java is a go-to solution for building these enterprise applications.

## Global Demand

Countries like the U.S., Canada, India, Germany, and Australia are actively hiring Java Full Stack developers to meet their growing tech needs.

# Job Opportunities for YOU

The Average Salary for JAVA Full Stack Developers in India Per Year



₹4,95,750/YR  
RANGE: ₹3L - ₹8L



₹5,12,208/YR  
RANGE: ₹3L - ₹9L



accenture  
₹5,91,520/YR  
RANGE: ₹3L - ₹10L



₹6,52,333/YR  
RANGE: ₹4L - ₹11L



₹7,52,000/YR  
RANGE: ₹72T - ₹20L



₹7,50,962/YR  
RANGE: ₹2L - ₹21L



₹6,02,691/YR  
RANGE: ₹2L - ₹22L



# Who Should Do This Course ?



Recent Graduates,  
Working Professionals



College Students  
in Their 3rd or 4th Year



Coding Enthusiasts  
Who Want to Upskill



## Course Duration

22+ Weeks | 5 months



## Sessions

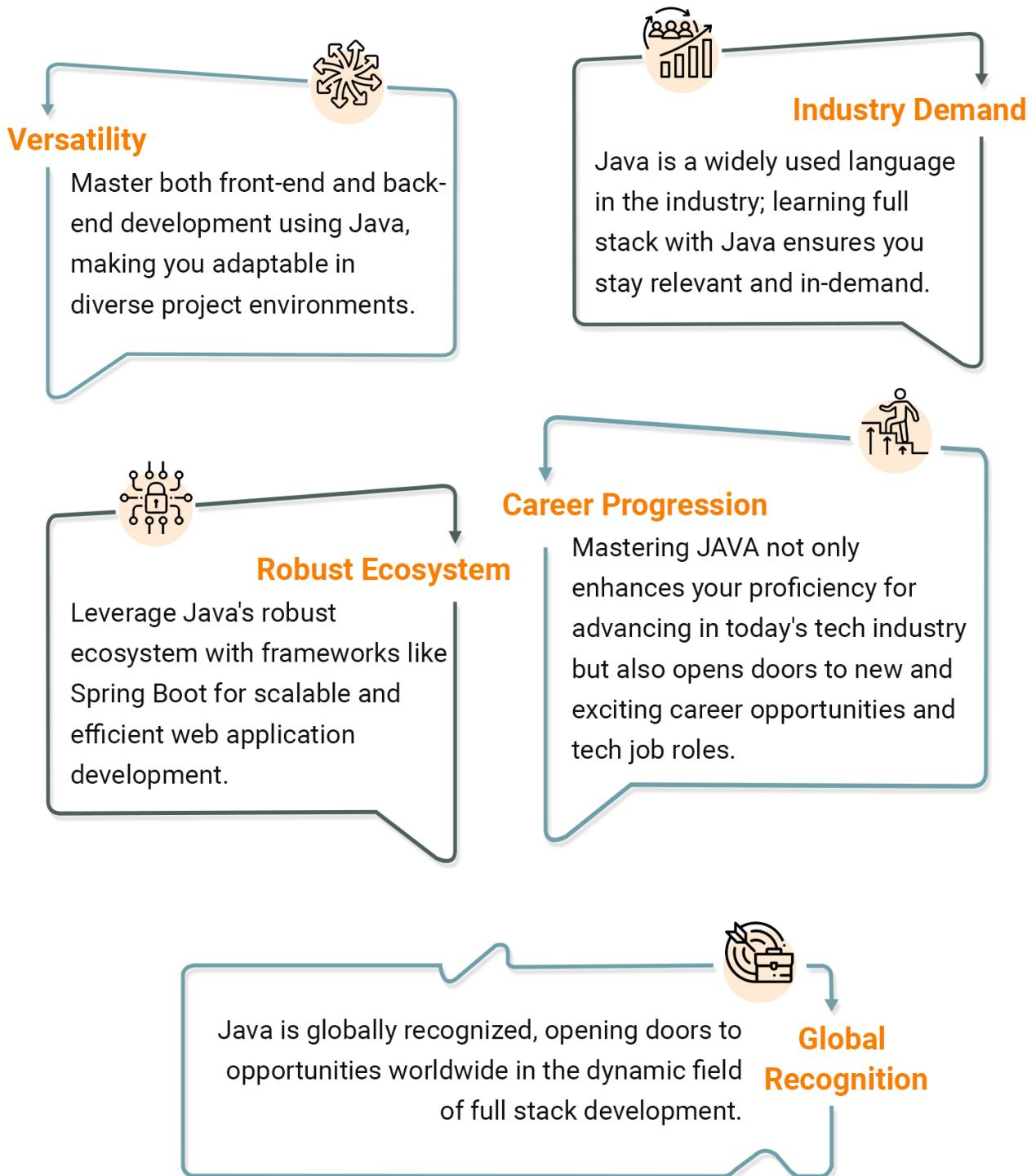
120+ live tech Session  
15 Value Added Sessions



## Class Format

1.5 Hours per day  
Online/Offline.

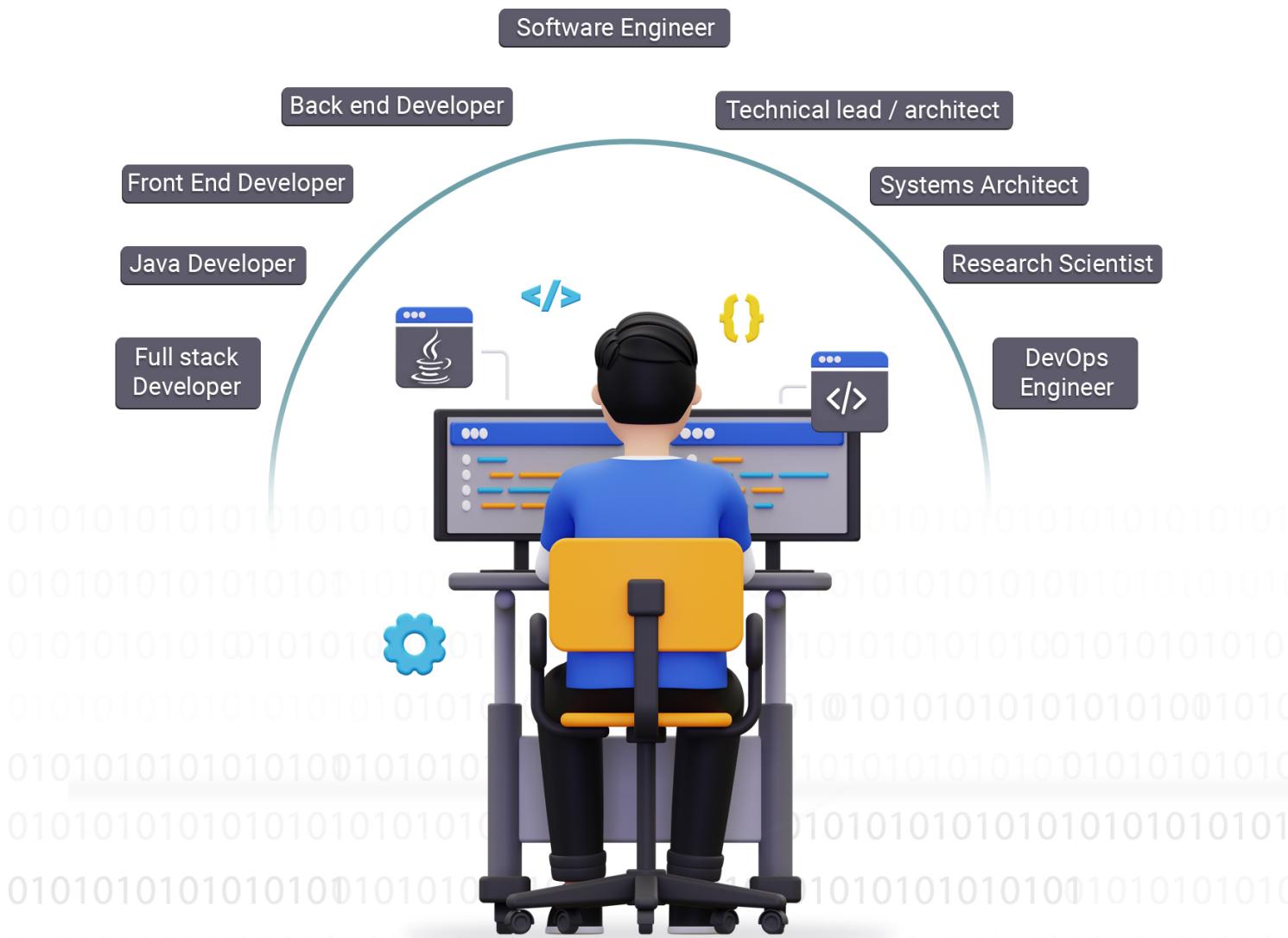
# Why Java full stack development is required for **your growth?**



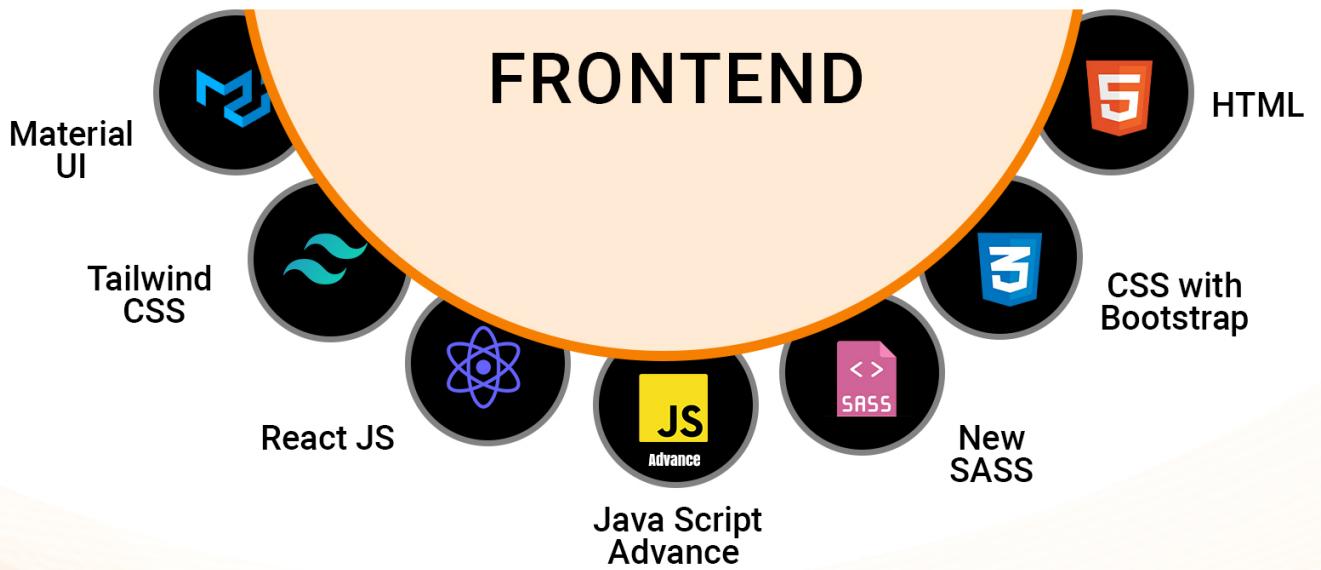
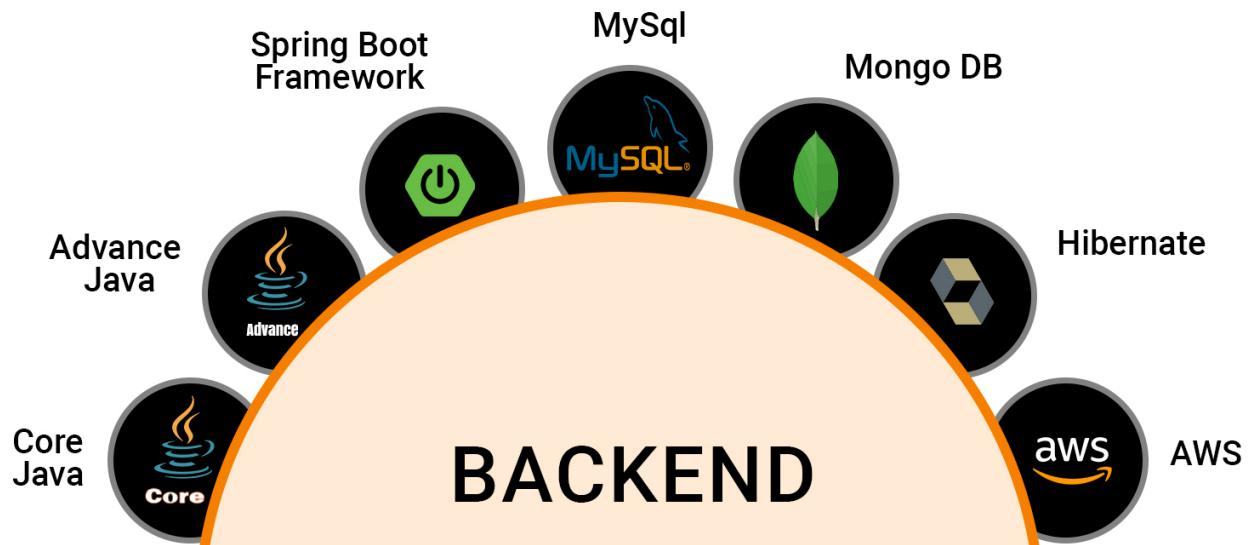
# Future Possibilities after completion of this program

Companies like **Google, Facebook, and other tech giants prioritise candidates with strong Java skills.** Unlock lucrative job opportunities and salary packages by showcasing your proficiency in problem-solving and algorithmic thinking.

**After the completion of this program, you are eligible to apply for these roles :-**



# Course Highlights



# Java FullStack (Core + Advance)

A Java Full Stack course typically covers a broad range of topics, tools, and technologies required to develop end-to-end web applications using Java. Here's an overview of what you might expect to learn in a Java Full Stack course

## Core Java Concepts

### ➤ Java Basics

- Syntax, Data Types, Variables and operators

### ➤ Control Flow Statements

- Conditional Statements: if-else, nested if-else, switch-case.
- Looping Statements: for loop, while loop, do-while loop, for each.
- Branching Statements: break, continue, return.

### ➤ Object-oriented programming principles (OOP)

- Classes and Objects, Encapsulation, Inheritance, Polymorphism,
- Abstraction, Interfaces and Abstract Classes.

### ➤ Method and functions

- lambda function, method overloading & overriding.

### ➤ Arrays and Collections

- ArrayList, LinkedList, HashSet, HashMap, etc.

### ➤ Exception handling, multithreading, and file I/O operations

### ➤ Java API (Application Programming Interface)

### ➤ Java Networking, DataBase Integration and Remote Method invocation

## Frontend Development

### ➤ HTML5, CSS3, and JavaScript for building user interfaces

### ➤ Bootstrap, tailwind css and Material UI Design for responsive and mobile friendly design

**➤ React JS**

- Frontend javascript framework for building user interface

**➤ React Saas Styling**

- CSS preprocessor.

**➤ React Components**

- Hooks and React Router navigation for single and multi page web applications.

**➤ Redux**

managing and centralizing application state

## Backend Development

**➤ Servlets and JSP (JavaServer Pages) for web development****➤ Java Persistence API (JPA) and Hibernate for database interaction****➤ Spring Framework**

- Dependency Injection, Inversion of Control (IoC), and Aspect-Oriented Programming (AOP)

**➤ React Saas Styling**

- Spring Boot for rapid application development and microservices architecture

**➤ React Components**

- Hooks and React Router navigation for single and multi page web applications.

**➤ Spring Data**

- Spring Data for simplified data access and manipulation

**➤ Spring Security**

- Spring Security for authentication and authorization

## Database Management

- Relational database concepts

- ↳ SQL (Structured Query Language) for data manipulation and querying
- ↳ **Database design and normalization**
- ↳ Integration of SQL databases like **MySQL**, PostgreSQL, or Oracle with Java applications
- ↳ Integration of Big DataBases like **MongoDB**, Redis or Amazon DynamoDb with Java applications

## Web Services and APIs

- ↳ Representational State Transfer (**REST**) architecture and principles
- ↳ **Building RESTful APIs with Spring Boot**
- ↳ Consuming RESTful services from frontend frameworks

## Deployment and DevOps

- ↳ Containerization with Docker for packaging applications
- ↳ Container orchestration with Kubernetes for managing containerized applications
- ↳ Continuous Integration (CI) and Continuous Deployment (CD) pipelines
- ↳ Deployment of Java applications on cloud platforms like **AWS**, **Google Cloud**, or **Microsoft Azure**

## Version Control and Collaboration

- ↳ Version control systems like Git for collaborative development
- ↳ **GitHub** or **GitLab** for hosting and managing code repositories
- ↳ Code reviews, branching strategies, and best practices in version control

## Testing and Quality Assurance

- Unit testing with **JUnit** or TestNG
- Integration testing and end-to-end testing with frameworks like Selenium
- Test-driven development (TDD) and behavior-driven development (BDD) methodologies

## Security and Authentication

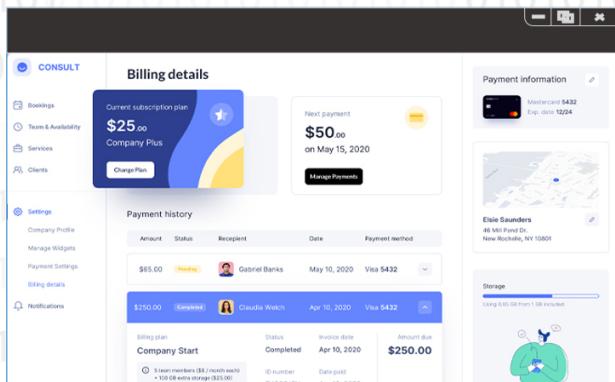
- Implementing secure authentication mechanisms using Spring Security
- Best practices for securing web applications against common vulnerabilities

## Projects

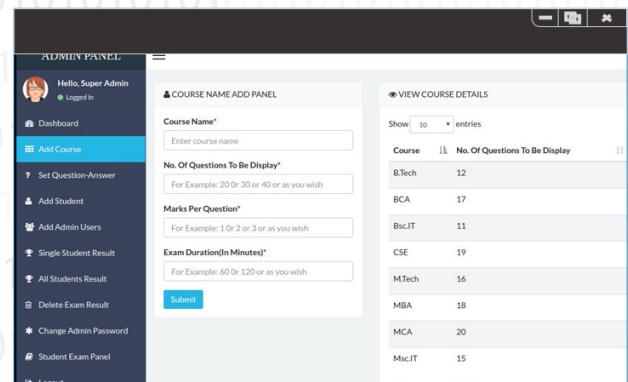
- Hands-on projects and assignments to apply the learned concepts
- Real-world scenarios and case studies to simulate professional development environments
- Capstone projects to showcase skills and expertise in full-stack development

**Our JAVA Full Stack Course provides a well-rounded education in both frontend and backend development, equipping students with the skills and knowledge needed to build modern web applications using Java technologies. Hands-on experience, practical projects, and mentorship are integral part of your learning journey at GRRAS Solutions.**

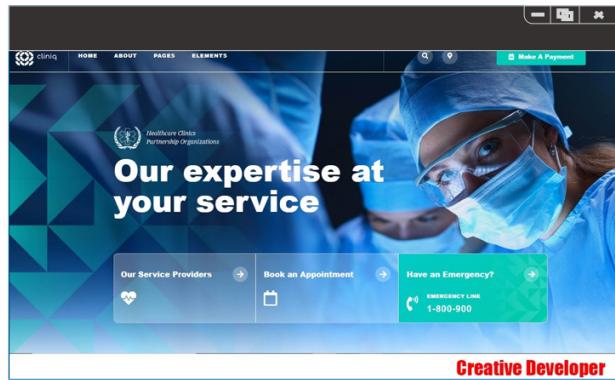
# Projects



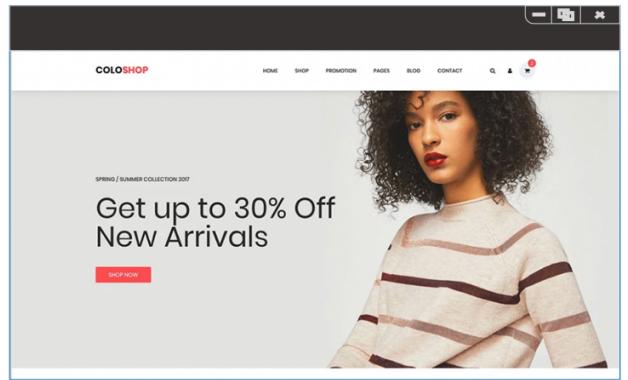
Internet Banking Web Application



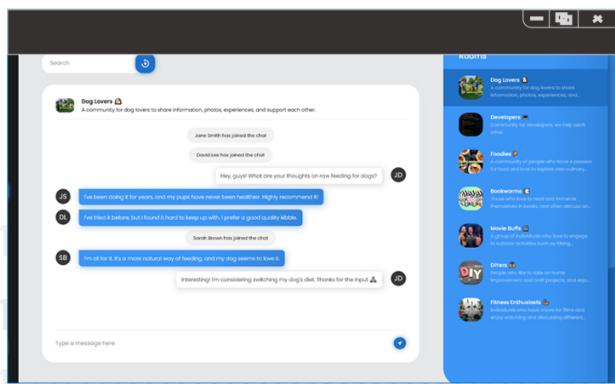
Online Examination Web Portal



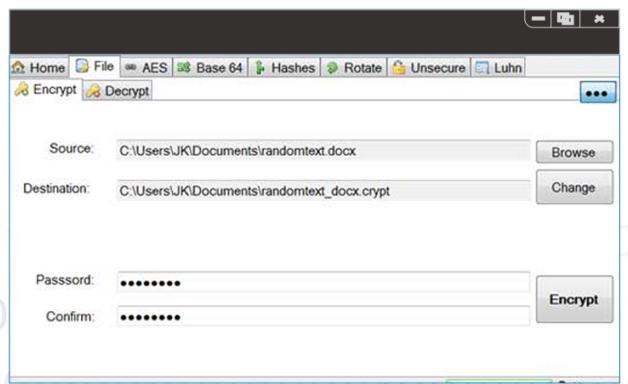
Hospital Management Web Portal



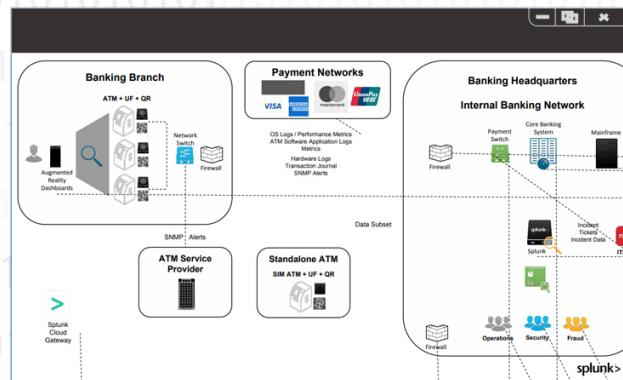
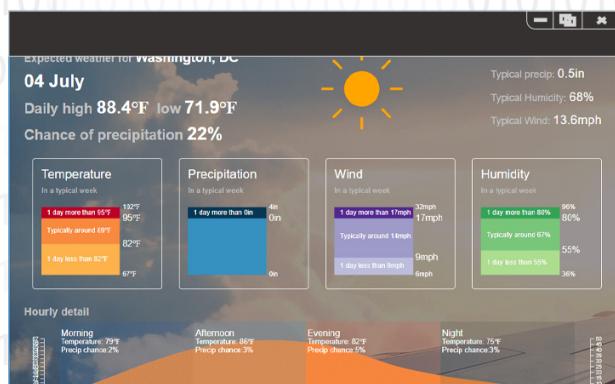
ECommerce Web Applications



Chat Application



File Encryption & Decryption Tool



## Weather Information System

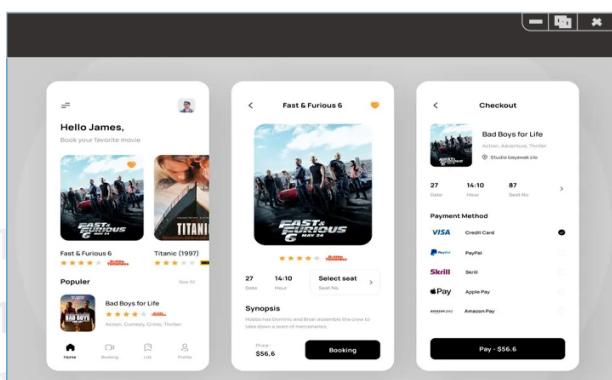
## Simple ATM System



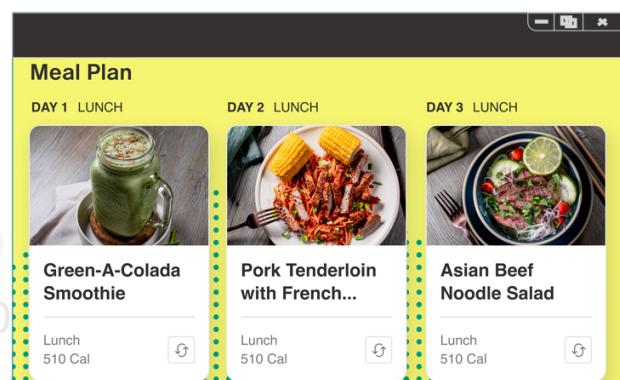
## Hotel Reservation System



## Grocery Store Billing System



## Movie Ticket Booking System (Desktop App)



## Diet Planner

# Learning Path

## Induction Class for Full Stack Java Developer

Explore the program and its components.

## Data Structures and Algorithms

Understand core data structures for optimal problem-solving.

## API Endpoints and Communication

- Learn Spring fundamentals and framework architecture.
- Utilize Spring Boot for error management and RESTful web services.

## Planning and Designing UI

- Learn Agile and Scrum principles.
  - In-depth knowledge of Git for version control.
- Develop interactive applications with HTML, CSS, and ReactJS.

## A-Z of Back-end and Database Development

- Familiarize yourself with Java servers and JSP
- Connect databases using JDBC.

## Capstone Project

- Work on an original problem to apply acquired skills.
- Develop a portfolio showcasing your abilities.



# Why Java full stack development program from **Grras**?

GRRAS's philosophy is going a little further. Our courses are designed to cover tools and technologies that are not a part of usual curriculums offered in the market. We ensure our students are prepared for any challenge of the industry and are ready for the future with our future proof education!



# CERTIFICATION

Get an Accredited and Recognized Certificate upon successful completion of this course.



## CERTIFICATE *of* TRAINING

This certificate is *Awarded* to

**YOUR NAME**

for successfully completing the

at

GRRAS Solutions Pvt. Ltd. from \_\_\_\_\_ to \_\_\_\_\_

We commend your dedication and hard work. We're confident that the skills and knowledge you have acquired will greatly contribute to your future success!

Unique Certificate No.

**GD-635023**

  
\_\_\_\_\_  
DIRECTOR



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DATE

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Jaipur, Rajasthan 302018



9001997178

WWW.GRRAS.COM

# When Our Students Succeed, We Succeed!

## Where Our Proud Alumni SHINE



and **600+** companies

# Hear It Directly From Our Students!



## Amit Kumar Saini

Hello, I'm Amit, I completed my B.Tech in Information Technology stream in 2022. Right now I'm a Java full-stack development student at Grass. Grras Institute has proven to be an exceptional choice for learning Java programming and various IT technologies. My experience has been positive, with the added benefits of tests, assignments, and comprehensive 100% job placement assistance. I highly recommend Grras to anyone seeking quality IT training.



## MD naved

Personally in my opinion, best institute to learn the professional skills and courses, Grras solutions pvt Ltd have good trainers and training program is also nice. I enjoyed studies here.



## Shubham Kumawat

Hello, my name is Shubham. Best institute for various IT technologies. Provide live training classes with recorded sessions. You will get course curriculum designed by industry professionals and I got test and assessments. I recommend grras solution to other students who want to make career in IT field.

Thank you Grras team



## Tushar Saxena

I recently completed the MERN Stack Development course at GRRAS Institute, and I couldn't be happier with the experience. The instructors are knowledgeable, patient, and genuinely invested in helping you succeed. The course was well-structured, covering everything from the basics to more advanced concepts, with plenty of hands-on projects that really helped solidify my understanding.



## Kapil Dilawar

I Kapil Dilawar I completed mern stack website development course of 4 months. I enjoyed so much teachers were so experienced and friendly in nature they gave me all answer of my doubts as much as they can do. this period of my life was best I completed html ,css ,java script ,react ,redux ,node js etc.



## Karan Parwani

GRRAS must be one of the best institutes in Jaipur. The kind of support and guidance they provide, it will definitely help you to grow and achieve the target you are looking for in your career. As far as my opinion is concerned, don't look for the other options because what GRRAS is providing to their students is already the BEST.



## Paras Gulvanshi

Completing my internship at GRRAS Solutions Private Limited was a rewarding experience. The knowledgeable mentors, hands-on projects, and supportive environment significantly enhanced my technical skills. The structured program and continuous feedback prepared me well for my career. I highly recommend GRRAS Solutions for a comprehensive internship experience.

# More about Us



Grras IT Solutions

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