

BUILD ENTERPRISE-LEVEL APPLICATIONS WITH  
**ADVANCED JAVA**

Go From Beginner to Advanced level with GRRAS



JOIN GRRAS FOR  
**JOB READY SKILLS**

# What is Advanced Java & Why Should You Learn It?

Advanced Java is the specialized area of Java programming focused on building enterprise-level and web applications. It goes beyond basic Java and includes advanced topics like Java Enterprise Edition (Java EE), Servlets, JavaServer Pages (JSP), and web services.

Learning Advanced Java helps you work on complex projects, increases your job prospects, and opens up advanced career opportunities in technology.

## JAVA

Core programming language

Fundamental concepts like syntax, data types, control structures, multithreading, networking, MySQL, JDBC

Basic libraries (e.g., `java.lang`, `java.util`, `java.sql`)

Used for general-purpose programming

Includes basic Java SE (Standard Edition)

Examples: Object oriented programs, Multithreading programs, Input/output Stream, Buffer, Socket programming, Data base handling with JDBC

## ADVANCED JAVA

Specialized extensions and frameworks built on Java

Advanced topics like Servlets, JSP, Java EE, Hibernate, Spring Boot, MongoDB etc.

Additional libraries and frameworks for specific tasks (e.g., Spring Framework, Spring Boot API, Hibernate & JPA)

Used for enterprise-level applications, web development, database connectivity, and more

Includes Java EE (Enterprise Edition) components for scalable and robust application

Examples: Web applications with Servlets and JSP, database-driven applications with Hibernate, enterprise applications with Java EE, RESTful Web Services with Spring Boot, Microservices development & deployment

# Why Learn Advanced JAVA For Your Career Growth?

## Widely Used Language

Java is a highly popular programming language, widely used in industries such as finance, e-commerce, and enterprise software.

## Strong Job Market

There is a high demand for skilled Java developers, leading to numerous job opportunities and competitive salaries.

## Versatility

Java is used in web development, mobile app development (especially Android), big data, and cloud computing providing diverse career options.

## Enterprise Applications

Many large companies rely on Java for their backend systems, ensuring a steady demand for Java developers.

## Platform Independence

Java's "write once, run anywhere" capability allows applications to run on various platforms without modification.

## Career Advancement

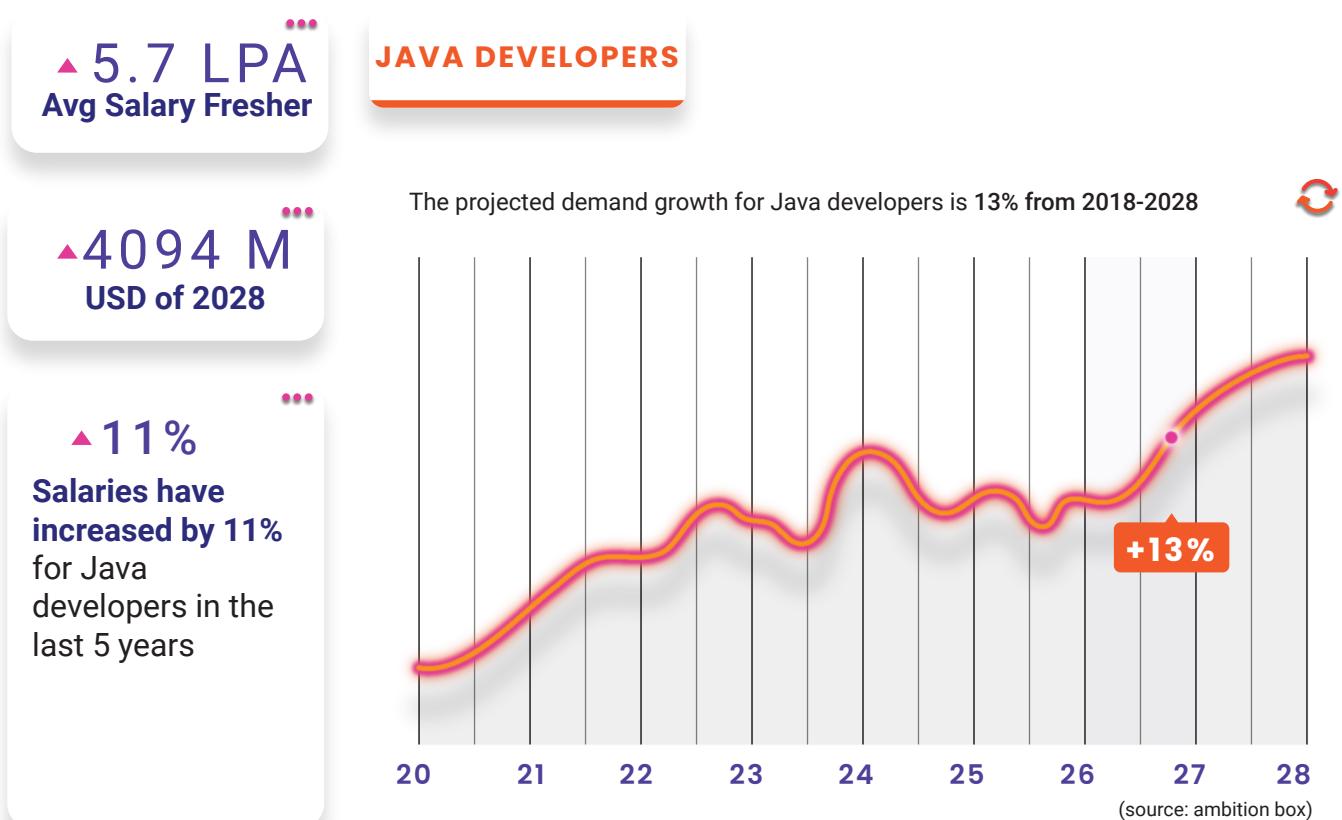
Mastering advanced Java can lead to roles such as Senior Developer, Software Architect, or Technical Lead, offering opportunities for career growth and leadership positions.

## Scalability and Performance

Java is known for its scalability and performance, making it suitable for large-scale, high-traffic applications.

# How Repeatedly Java are Growing

Top global organizations like **Netflix, Nvidia, Tesla, Visa, AMD, Facebook, and many others** highly value candidates with strong Java skills. They offer attractive pay packages and abundant job opportunities to candidates who possess the right skills in Java development. This demand highlights Java's critical role in powering large-scale, high-performance applications across various industries, ensuring rewarding career prospects for skilled professionals.



## What Does This Mean for You?



Growing demand for Java developers.



Competitive salaries with upward trends.

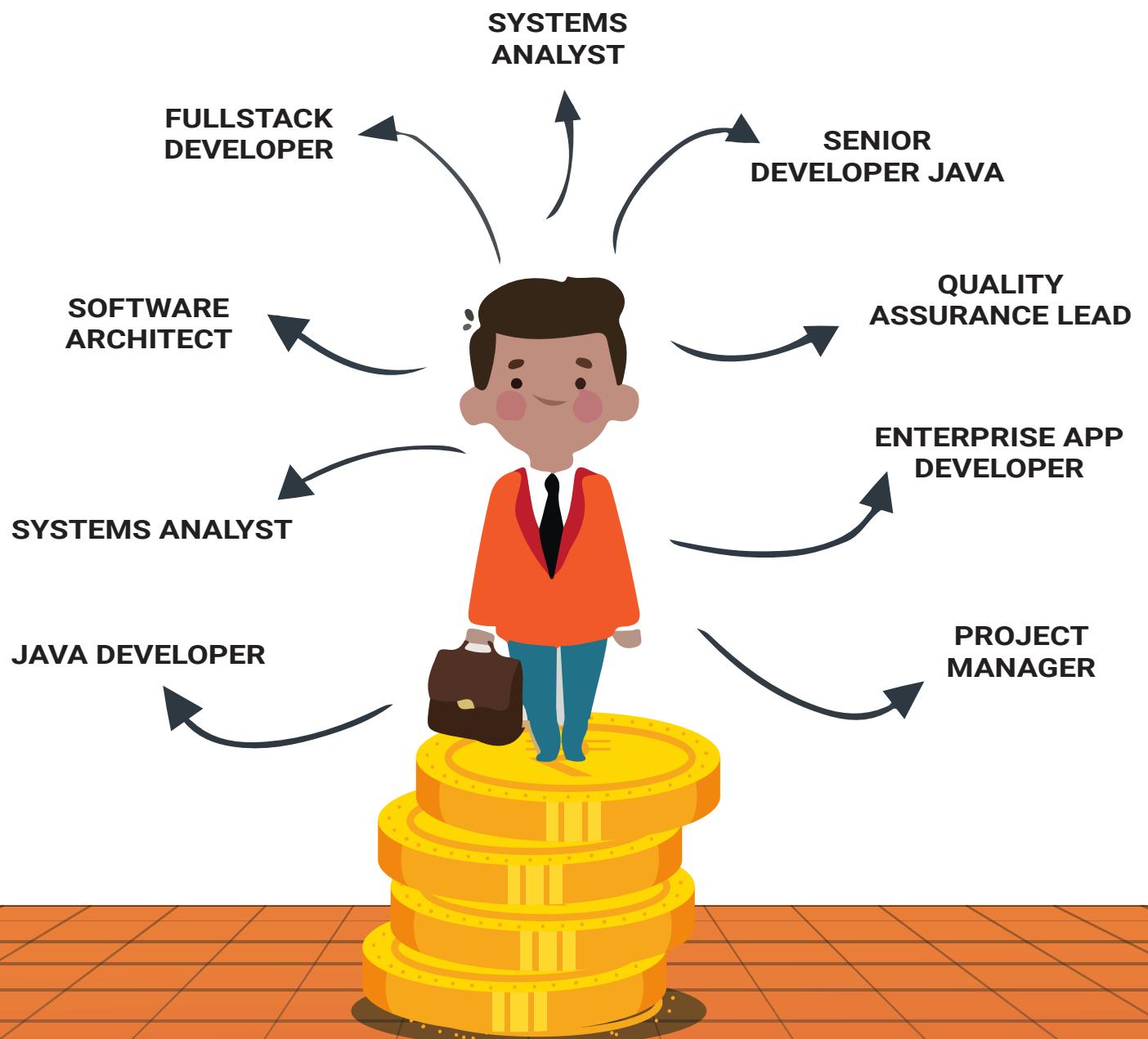


Stable career prospects with growth opportunities.

Valued skills across diverse sectors.

# Future Opportunities For You

Post Completion of your program, you can apply for the following roles



# Who Should Do This Course?



## IT Students

Provides a solid foundation in complex programming concepts, preparing them for real-world development challenges and enhancing their employability.

## Graduates with a Tech Degree

Offers advanced skills that can boost their career prospects, making them more competitive for higher-level positions in tech.



## Software Engineers

Deepens their expertise in complex frameworks, supporting the creation of sophisticated software solutions and solving advanced technical problems.

## Web Developers

Enhances their ability to build dynamic, high-performance web applications using advanced Java technologies like Servlets & JSP.



## Database Administrators

Strengthens their skills in database management and connectivity with JDBC and ORM frameworks, leading to more efficient and effective data handling.

## Anyone

Provides a comprehensive understanding of Java, aiding personal growth and professional development by building advanced applications.



# Course Timeline



## Course Duration

8+ Weeks | 2 months



## Sessions

60+ live tech Session

8 Value Added Sessions



## Class Format

1.5 Hours per day

Online/Offline.



## Interview Lineup

Unlock opportunities after certification with our exclusive Interview Lineup support. We'll connect you with tailored interviews to jumpstart your career journey.



## Lifetime Career Support

Our commitment doesn't end at certification. Benefit from lifelong career support, guiding you through job switches and career advancements.

# Modules That We'll Cover

## An Overview of Advance Java

- Introduction of Java EE.
- Frameworks of advanced java.
- Advantage of advanced java in web app & API's development

## Servlet

- Basics of Servlet
- Webapplication Architecture
- Http Protocol & Http Methods
- WebServer & WebContainer
- Servlet API
- Servlet Interface
- GenericServlet
- HttpServlet
- Servlet Life Cycle
- Annotation Servlet
- ServletContext
- ServletRequest & Response methods
- Attribute set, get and remove
- Session Tracking
- URLRewriting
- Cookies
- HttpSession
- Event and Listener
- Filter
- ServletInputStream and Servlet
- OutputStream
- Wrappers

- JSPAPI
- Scripting elements
- JSPtags
- Implicit Objects
- Request & Response
- session
- page
- Directives
- Exception Handling
- Action Elements
- jsp:forward
- jsp:include
- Beanclass
- jsp:setProperty & jsp:getProperty
- MVCinJSP

## Hibernate

- Hibernate Introduction
- Hibernate Architecture
- Understanding First Hibernate application
- Hibernate Application
- Hibernate with annotation
- Hibernate Web application
- Hibernate Generator classes
- Hibernate Dialects
- Inheritance Mapping
- Transaction Management
- HQL
- HCQL
- Transaction Management
- Hibernate Caching

## JSP

- Basics of JSP
- Life cycle of JSP

## Spring

- Spring Modules
- Dependency Injection
- Constructor Injection
- AutoWiring
- Factory Method
- AOPConcepts and Terminology
- Spring MVC
- Spring MVC Validation
- Spring Security

- Spring Boot With H2 DataBase
- Spring Boot With MySQL
- Spring Boot With MongoDB

## Spring Boot Caching

- Spring Boot Caching Implementation
- Spring Boot Cache Provider
- Spring Boot Enhancing
- Spring Boot With Redis

## Spring Boot Introduction

- Overview of Spring Boot
- Difference between Spring and Spring Boot
- SBArchitecture
- SBCLI
- Spring Initializr

## Spring RESTful Web Service

- RESTful Web Service Overview.
- RESTful Web Service with Spring Boot
- Initialize RESTful Web Service
- Spring Boot Auto Configuration
- Spring CRUD with Rest API's
- Spring Boot Exception Handling
- Spring Boot Validation
- Spring Boot Swagger
- Spring Boot Monitoring
- Spring Boot Security
- Spring Boot Projects

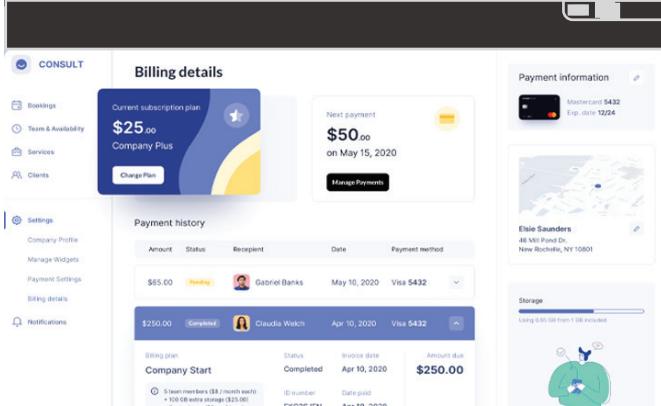
## Spring Boot Components

- SBAnotations.
- SBDependency.
- SBApplication Properties.
- SBStarters
- SBStarter Web
- SBDataJPA
- SBStarter Actuator
- SBStarter Test
- SBDevTools
- Multi Module Project
- SBPackaging
- SBAuto-configuration
- Spring Boot AOP

## JSP

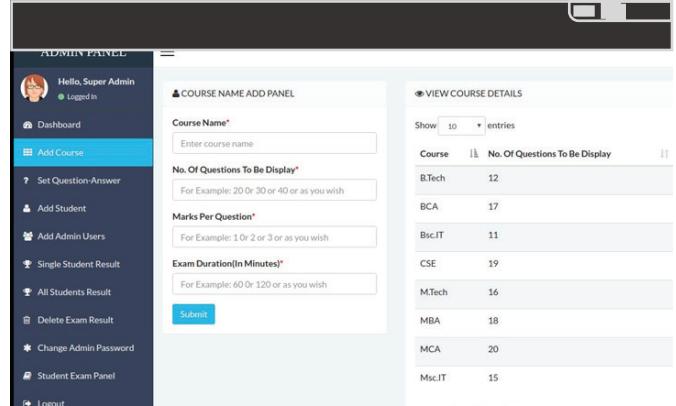
- Spring Boot JPA
- Spring Boot JDBC

# Projects (Web Application)



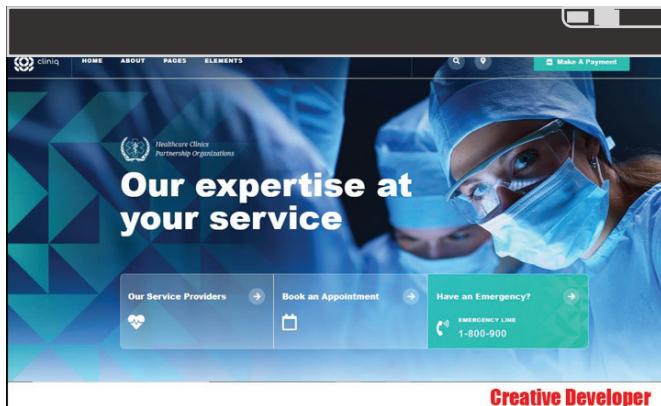
This screenshot shows a web-based banking application interface. On the left, a sidebar includes 'CONSULT' (Bookings, Team & Availability, Services, Clients), 'Settings' (Company Profile, Manage Widgets, Payment Settings, Billing details, Notifications), and a 'Notifications' section. The main content area is titled 'Billing details' and shows a 'Current subscription plan' of '\$25.00' for 'Company Plus'. It includes a 'Charge Plan' button, a 'Next payment' of '\$50.00' on 'May 15, 2020' with a 'Manage Payment' button, and a 'Payment history' table. To the right, a 'Payment information' section displays a credit card (Mastercard 5432, Exp. date 1224) and a map showing the location of 'Elmwood Apartments' at 48 Elmwood Dr, New Rochelle, NY 10801. A 'Storage' section shows usage of 5.80 GB from 1.00 available.

Internet Banking Web Application



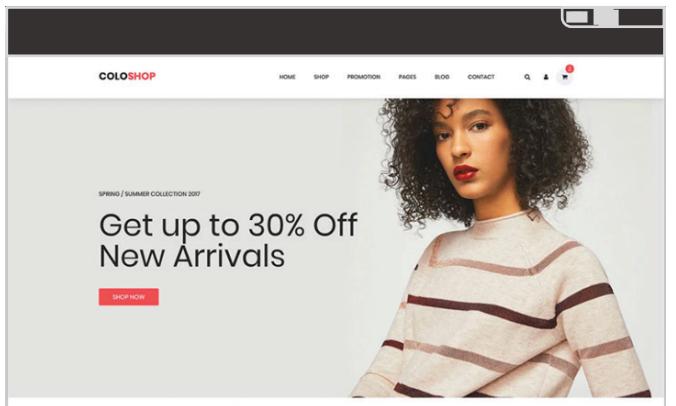
This screenshot shows an 'ADMIN PANEL' for an examination system. The left sidebar includes 'Dashboard', 'Add Course' (selected), 'Set Question Answer', 'Add Student', 'Add Admin Users', 'Single Student Result', 'All Students Result', 'Delete Exam Result', 'Change Admin Password', and 'Student Exam Panel'. The main content area has a 'COURSE NAME ADD PANEL' with fields for 'Course Name\*' (Enter course name), 'No. Of Questions To Be Display\*' (For Example: 20 Or 30 or 40 or as you wish), 'Marks Per Question\*' (For Example: 1 Or 2 or 3 or as you wish), and 'Exam Duration(in Minutes)\*' (For Example: 60 Or 120 or as you wish). To the right, a 'VIEW COURSE DETAILS' table lists courses with their respective marks and exam durations: B.Tech (12), BCA (17), B.Sc.IT (11), CSE (19), M.Tech (16), MBA (18), MCA (20), and M.Sc.IT (15). A 'Submit' button is at the bottom of the panel.

Online Examination Web Portal



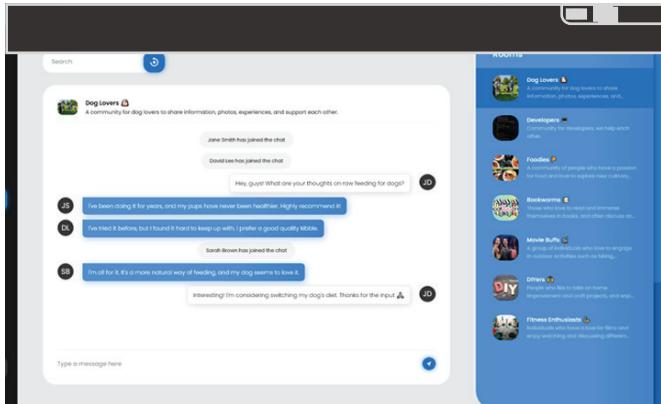
This screenshot shows a hospital management web portal. The homepage features a large image of medical staff in scrubs. Text on the page includes 'Our expertise at your service', 'Our Service Providers', 'Book an Appointment', 'Have an Emergency?', and 'EMERGENCY LINE 1-800-900'. A 'Creative Developer' watermark is visible at the bottom right.

Hospital Management Web Portal



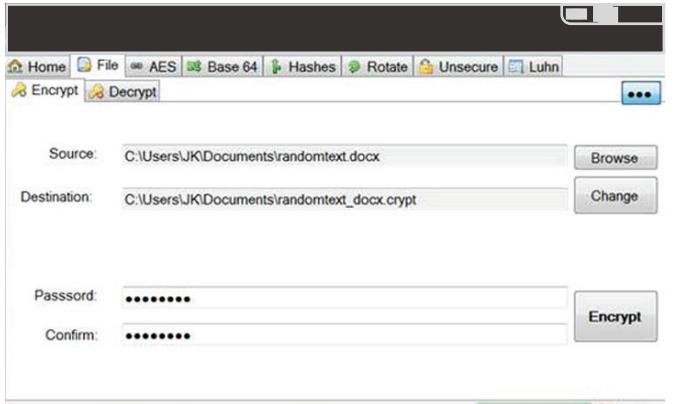
This screenshot shows an e-commerce website for 'COLOSHOP'. The top navigation includes 'HOME', 'SHOP', 'PROMOTION', 'PAGES', 'BLOG', and 'CONTACT'. A large promotional banner for 'SPRING / SUMMER COLLECTION 2017' offers 'Get up to 30% Off New Arrivals' with a 'SHOP NOW' button. A woman in a striped sweater is featured in the background.

ECommerce Web Application



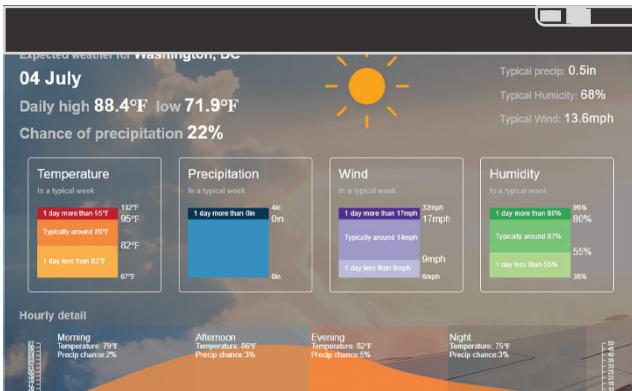
This screenshot shows a chat application interface. On the left, a 'Rooms' sidebar lists 'Dog Lovers' (a community for dog lovers to share information, photos, experiences, and support each other), 'Developers' (a community for developers to help each other), 'Foodies' (a community for people who have a passion for food and love to explore new culinary), 'Bookworms' (a community for bookworms to share their favorite books, and offer discuss on...), 'Movie Buffs' (a group of individuals who love to engage in movie activities such as film...), 'DIY' (People who like to take on home improvement and craft projects, and ways...), and 'Fitness Enthusiasts' (individuals who have a love for fitness and enjoy working out and encouraging others). The main area shows a conversation in the 'Dog Lovers' room with messages from users like Jane Smith, John Doe, and Sarah Brown. A text input field at the bottom says 'Type a message here'.

Chat Application

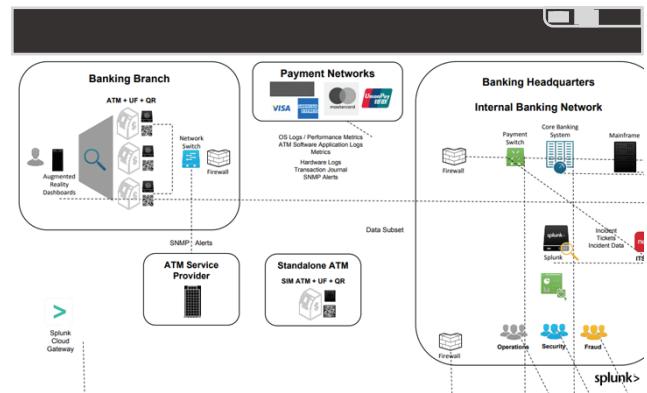


This screenshot shows a file encryption tool interface. The top navigation includes 'Home', 'File', 'AES', 'Base 64', 'Hashes', 'Rotate', 'Unsecure', and 'Luhn'. The main area has tabs for 'Encrypt' and 'Decrypt'. It includes fields for 'Source' (C:\Users\JK\Documents\randomtext.docx) with a 'Browse' button, 'Destination' (C:\Users\JK\Documents\randomtext\_docx.crypt) with a 'Change' button, 'Password' (a masked field), and 'Confirm' (a masked field). An 'Encrypt' button is at the bottom right.

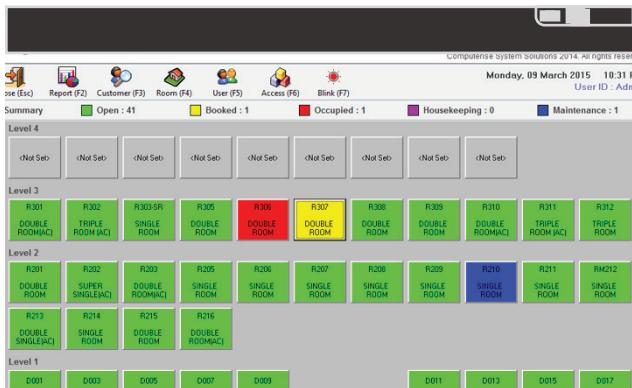
File Encryption & Decryption Tool



## Weather Information System



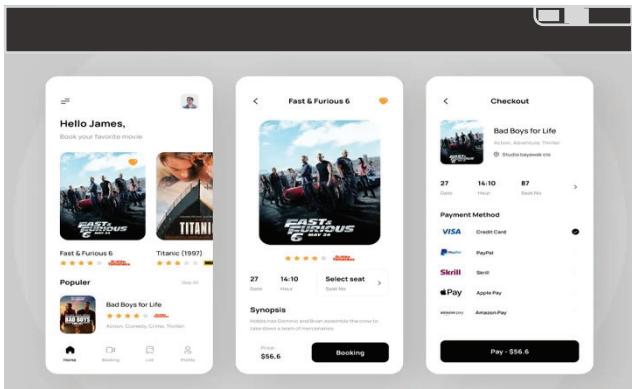
## Simple ATM System



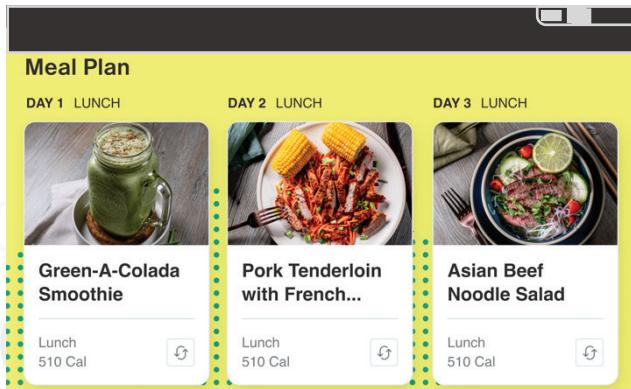
## Hotel Reservation System



## Grocery Store Billing System



## Movie Ticket Booking System (Desktop App)

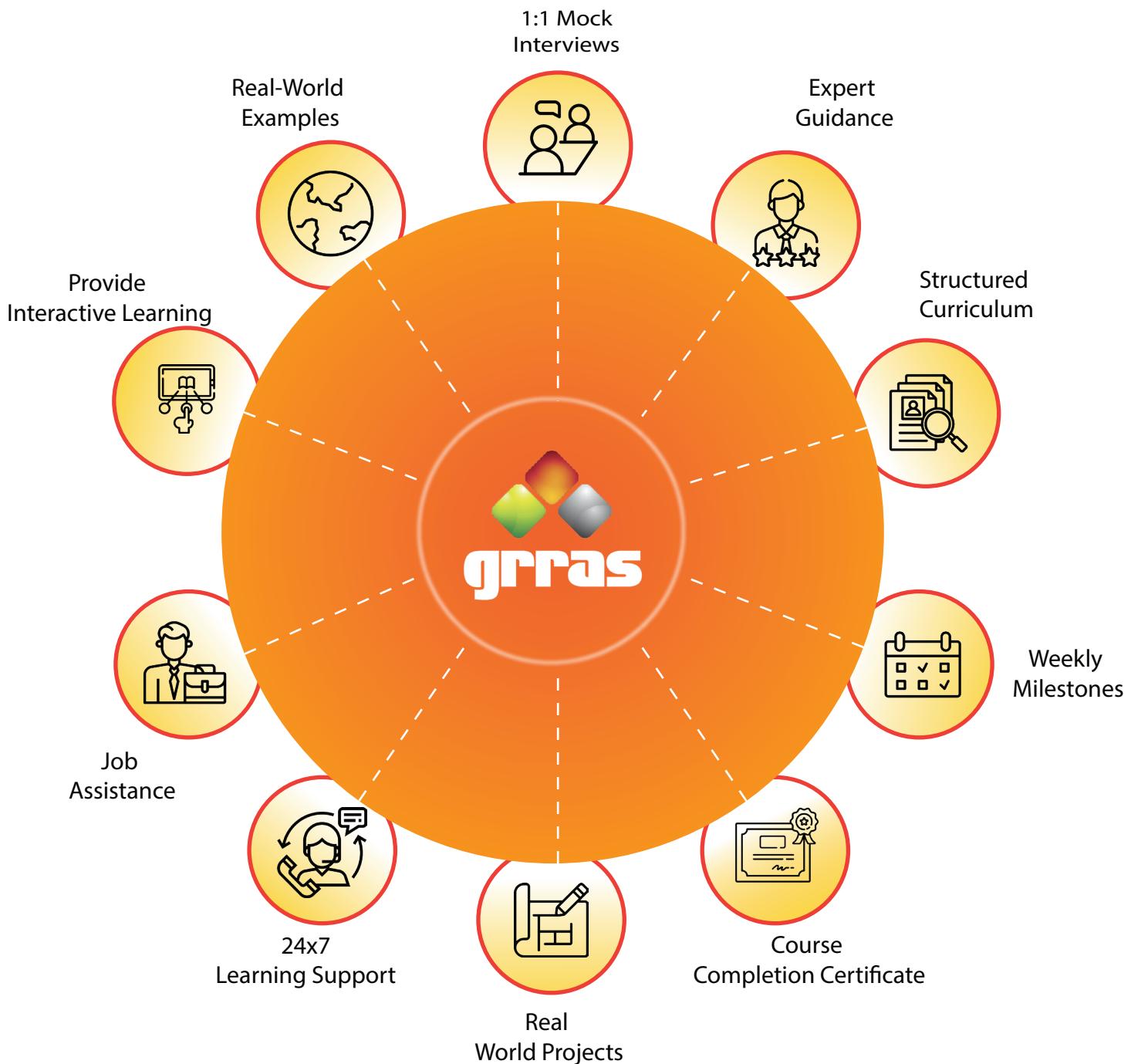


## Diet Planner



# Why GRRAS for Advanced Java?

Learning data analytics from GRRAS Solutions equips you with industry- and job-ready skills. It enhances your chances of getting placed in top organizations, opening numerous opportunities for career growth.



## 100% Job Assistance

Yes, you heard it right! Our course not only offers expert learning but also guarantees 100% job assistance. With a dedicated team of job coordinators and 500+ hiring partners, we're committed to ensuring your success in landing your dream job.

# 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**

A blue ink signature of the Director, placed above a horizontal line.

DIRECTOR



DATE

**WWW.GRRAS.COM**

2<sup>nd</sup> Floor, 36 Basant Bahar, Gopal Pura Mode,  
Jaipur, Rajasthan 302018



+91 9001997178

[www.grras.com](http://www.grras.com)



# When Our Students Succeed, We Succeed! Where Our Proud Alumni SHINE



and 600+ companies

# Hear It Directly From Our Students!

At GRRAS Solutions, my experience has been excellent. The faculty is extremely supportive and knowledgeable, and they are always willing to go above and beyond to ensure that students comprehend the material. The curriculum is well-organized and provides a good balance of theoretical knowledge and real-world experience.

**Nishant bhatia |**



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.

**Tushar Saxena |**



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.

**Kapil Dilawar |**



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

**karan parwani |**



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

## Paras Gulvanshi |



I recently completed the 45-day Front End Web Development with Advanced React.js course at GRRAS Institute and found it highly beneficial. The curriculum was comprehensive, starting with HTML, CSS, and JavaScript fundamentals before diving deep into advanced React.js topics like hooks, state management, and performance

## Rakshit Mathur |



The best trainers are here. Here we learn how to use all the advanced tools very well. Along with technical training, workshops are also organized for the trainees to develop communication skills which are in high demand

## Chinmay Sharma |



Great experience in learning with techies and mentors with great knowledge in their respective domains. Mentors are very easy to approach and always available for help.

## Akshat Bari |



I've been attending coaching sessions at GRRAS Coaching Center for the past THREE months, and I must say, it has been an incredibly enriching experience. Trainer, our coach, has been instrumental in guiding me through various challenges and helping me achieve my goals.

## Himanahu Rasganiya |



# More about Us



## Grras IT Solutions

Most Trusted IT Training Provider - India



## FOLLOW US NOW



@grras-solutions-p-ltd

@grrasofficial



9001997178



trainings@grras.com



www.grras.com



36, Basant bahar, Gopalpura Bypass Rd  
Tonk Road, Muktanand Nagar, Gopal  
Pura Mode, Jaipur, Rajasthan 302018