# DYC

# **DECODE YOUR COURSE**

AI POWERED LEARNING PLATFORM
FOR PROGRAMMING

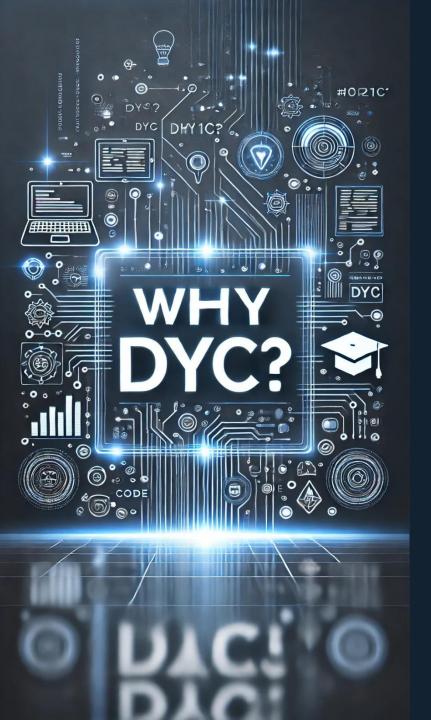
Presented by,
B.SAM ( C22UG132CSC040 )



# **SYNOPSIS**

- Smart Learning Platform
- Simplified Programming Concepts
- Interactive Learning [ Al Powered ]





## **FEATURES**

- Simplified Learning
- Free & Open-Source
- AI-Powered Assistance
- Personalized Learning Path
- Smart Assessment & Certification



- MONGO DB (ATLAS)
- EXPRESS.JS
- REACT.JS
- CSS
- NODE.JS







**HOME PAGE** 



LEARNING PAGE



REGISTER PAGE



COURSE API



LOGIN PAGE



E THE CHATBOT



**USER DASHBOARD** 



FINAL ASSESSMENT



INITIAL ASSESSMENT



**CERTIFICATION** 

# **Profile**

First Name: DHARUN SAM

Username: dyc@gmail.com

**Course: JAVA** 

0% completed

### Introduction to Java

### 1. What is Java?

Java is a high-level, object-oriented programming language developed by Sun Microsystems in 1995. It is platform-independent, meaning "write once, run anywhere" (WORA). Java's syntax is similar to C++ but simpler, making it easier to learn. It is widely used in web, mobile, and enterprise application development. Java programs run on the Java Virtual Machine (JVM), ensuring cross-platform compatibility. Popular for its robustness,



- User Information
- Courses Information
- Progress Tracking
- Course Content
- Buttons to Navigate



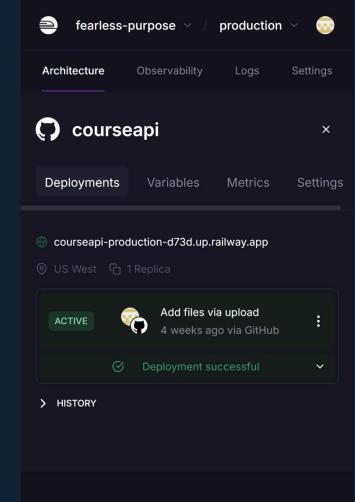
- Array of Objects [ JSON ]
- · Id, Module, Title & Content

```
"id": 1.
    "module": "Introduction to Java",
    "title": "What is Java?",
    "content": "Java is a high-level, object-
oriented programming language developed by Sun
Microsystems in 1995. \n
                           It is platform-
independent, meaning \"write once, run anywhere\"
             Java's syntax is similar to C++ but
simpler, making it easier to learn.\n
                                         It is
widely used in web, mobile, and enterprise
application development.\n
                             Java programs run on
the Java Virtual Machine (JVM), ensuring cross-
platform compatibility.\n
                             Popular for its
robustness, Java includes strong memory management
              Java supports multithreading,
features.\n
allowing simultaneous execution of multiple
            It is backed by a large community and
extensive libraries.\n
                         Companies like Amazon,
Google, and Netflix rely on Java for
scalability.\n
                Learning Java opens doors to
diverse software development opportunities."
  },
    "id": 2,
    "module": "Introduction to Java",
    "title": "Installing Java",
    "content": "To install Java, download the
latest JDK (Java Development Kit) from Oracle's
official website.\n
                       Follow the installation
wizard for your OS and set up the JAVA_HOME
environment variable.\n Verify the installation
by running \"java -version\" in your terminal.\n
An IDE like Intellij IDEA, Eclipse, or NetBeans
can streamline Java development.\n
                                      Ensure you
also install the Java Runtime Environment (JRE)
for running Java applications.\n
                                    The JDK
includes essential tools like javac (compiler) and
                     Platform-specific
java (runtime).\n
installation steps are well-documented in Java's
official resources.\n
                        Keeping your Java version
up-to-date ensures access to the latest
features.\n
              Learning the setup process is a
foundational step in mastering Java.\n
installed, you are ready to create and execute
your first Java program."
 },
```

"id" · 3



- Array of Objects [ JSON ]
- Id, Module, Title & Content
- Hosted in Railways via Github
- Easy to update





# **E** THE CHATBOT

- Built on Zapier (Chat GPT)
- Doubt Clarification
- Interactive
- In depth understanding

DYC

Hello! I'm here to assist you with your learning journey on Decode Your Course.

To get started, could you please tell me which topic or programming language you are currently interested in? This way, I can provide you with the most relevant information and resources!

Ask me anything



### **Profile**

First Name: DHARUN SAM

Username: dyc@gmail.com

Course

100% completed

### **Course Completed**

### 28. Congradulations

Congratulations! You have successfully completed the Advanced Java course. You now possess a comprehensive understanding of advanced Java techniques. Your skills span enterprise application development, server-side programming, and the use of robust frameworks. You are prepared to tackle complex, real-world programming challenges using Java. Continue to practice and apply these concepts to deepen your expertise. Explore further topics such as microservices, cloud deployment, and API development. Join Java communities to stay updated on industry trends and best practices. Keep experimenting with new libraries and frameworks to enhance your projects. Remember that continuous learning is key to long-term success. We wish you the best in your journey as an advanced Java developer.

Back

Nex

Take Final Assessment





After Completing 100%

# Final Assessment Rules & Regulations

Category	Details
Assessment Format	20 Multiple-choice questions (MCQs)
Time Limit	- The test must be completed within the allocated time (20 mins).  - If time exceeds, the test will be automatically submitted.
Passing Criteria	<ul> <li>- Below 50% → Retake the course and reattempt.</li> <li>- 50% - 79% → Certificate awarded.</li> <li>- 80% &amp; above → Certificate + Interview Questions.</li> </ul>
Cheating & Plagiarism	Copying answers, using external help, or cheating results should be avoided.
Retake Policy	If failed, the user must restart and complete the course before reattempting.
Certificate Issuance	Digital certificate auto-generated upon passing the test.

I have read the details properly and I am ready to take the final assessment.



# FINAL ASSESSMENT

- After Completing 100%
- Rules and Regulations

**Start** 

# **Final Assesment** 17:54

### 1. What is Java?

- A programming language
- An operating system
- A database
- A web browser

### 2. Which data type is used to create a variable that should store text?

- String



# FINAL ASSESSMENT

- **After Completing 100%**
- **Rules and Regulations**
- Time Limit (20 minutes)
- 20 MCQs

# **FINAL ASSESSMENT**

## **Total Correct Answers:** 20

**Download Certificate** 

- **After Completing 100%**
- **Rules and Regulations**
- Time Limit (20 minutes)
- 20 MCQs
- **Immediate Result Calculation**



- Bonus Gift ( >=80% )
- Technical Interview Questions

Congratulations on achieving over 80% marks!
Click the button below to claim your exclusive bonus

**Download** 



- Bonus Gift ( >=80% )
- Technical Interview Questions
- Certificate Preview
- Button to Download(PDF)



Download Certificate

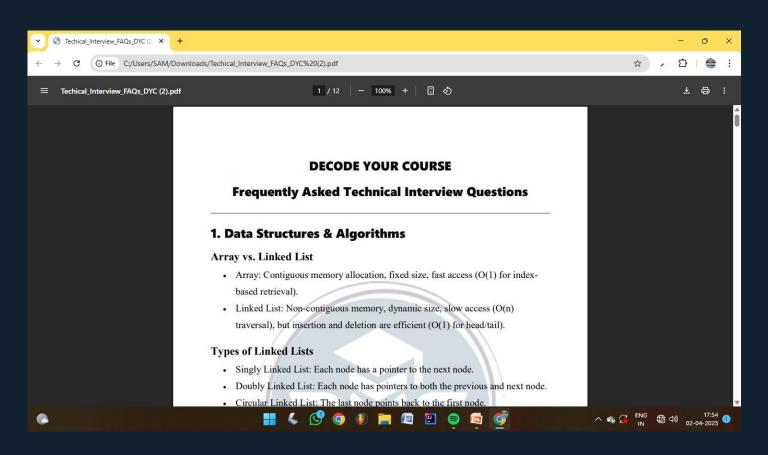


## Certificate has been downloaded as PDF



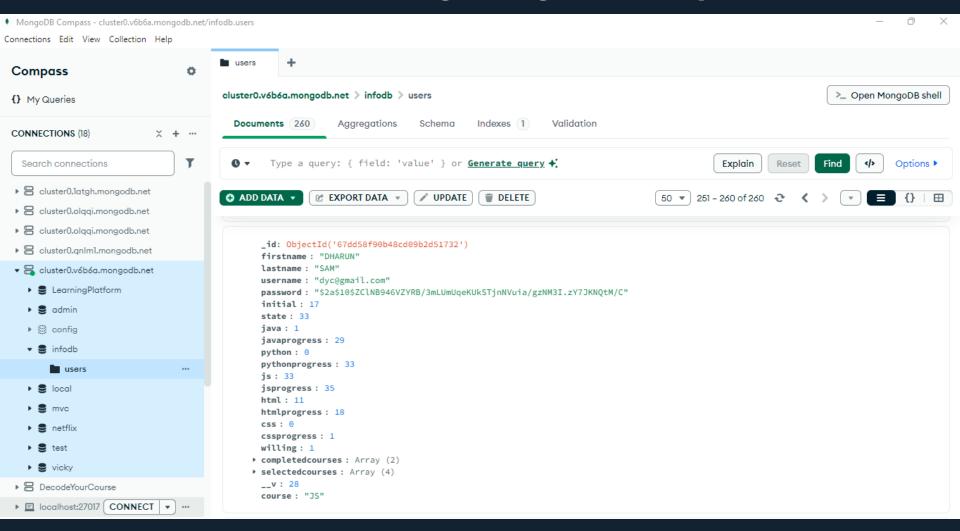


### **Bonus PDF has been downloaded**



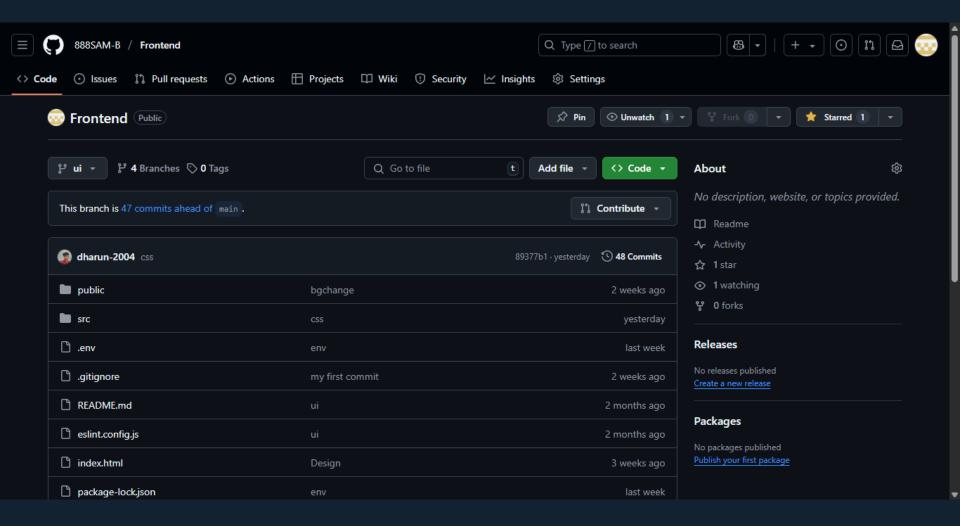


# Stored in MongoDB Atlas and monitored using MongoDB Compass



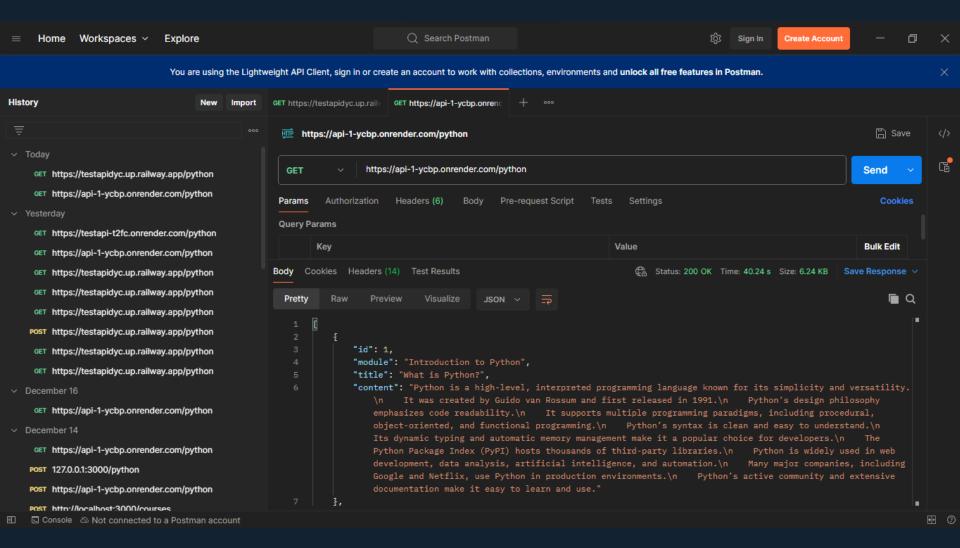


# Hosting our DYC project on GitHub allows us for seamless maintenance and efficient version control.



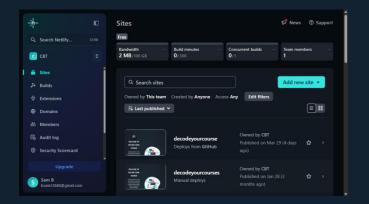


# **API testing Using Postman**

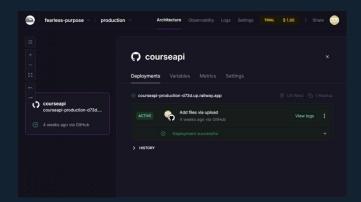




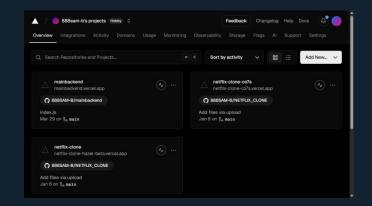
# **DEPLOYMENT AND HOSTING**



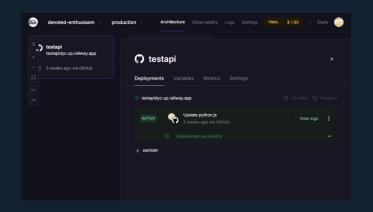
### **FRONTEND - NETLIFY**



Course content - Railways



### **BACKEND- VERCEL**



Assessment content
- Railways



# WEBSITE URL decodeyourcourse.netlify.app





# Efficient Learning



**Al Integration** 



**User-Friendly** 



**Simplicity** 



**Future Scope** 



# LOOKING FORWARD TO YOUR FEEDBACK AND QUESTIONS



# **THANK YOU**