

DYC

DECODE YOUR COURSE

AI POWERED LEARNING PLATFORM FOR PROGRAMMING

Presented by,

S.S.DHARUN (C22UG132CSC008)



SYNOPSIS

- **Smart Learning Platform**
- **Simplified Programming Concepts**
- **Interactive Learning [AI Powered]**





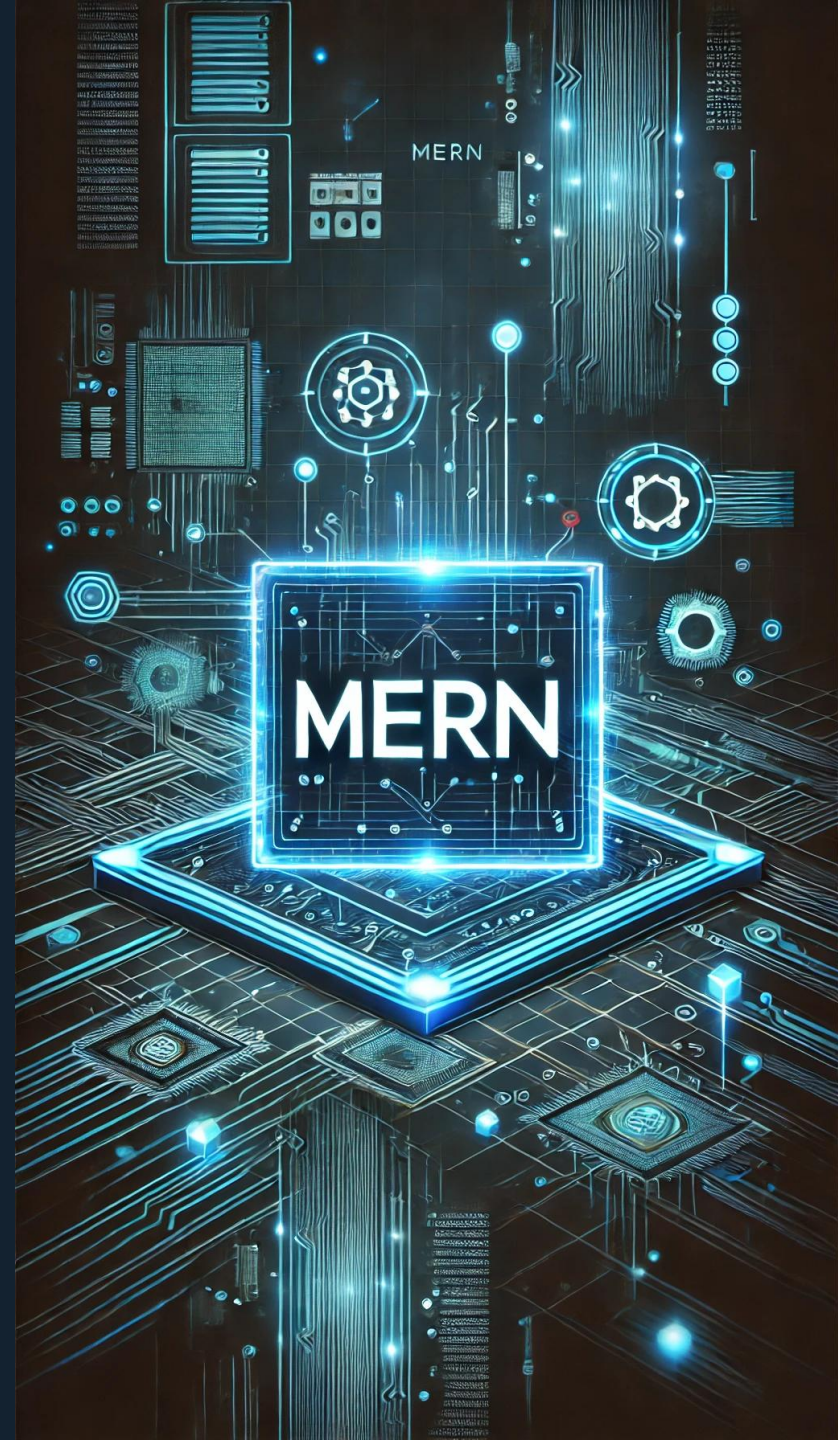
WHY DYC?

FEATURES

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

TECH STACK

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





MODULES



HOME PAGE



LEARNING PAGE



REGISTER PAGE



COURSE API



LOGIN PAGE



THE CHATBOT



USER DASHBOARD



FINAL ASSESSMENT



INITIAL ASSESSMENT



CERTIFICATION



HOME PAGE

- **Welcoming the User**



WELCOME TO DECODE YOUR COURSE

Coding has become a crucial literacy skill for the present and future generations. It's natural to wonder about the benefits of learning a new skill and its practical advantages.

Learning to code enhances creativity, improves mathematical understanding, and promotes teamwork. The primary aim of the program is to offer comprehensive training in computational programming and coding.





HOME PAGE

- **Welcoming the User**
- **About Us Cards**
- **Buttons to Navigate**

Expert Content

Interactive courses tailored to your pace

Our expert-curated content ensures an in-depth understanding of key concepts. Whether you're a beginner or an advanced learner, our courses evolve with you.

Community

Connect with like-minded learners

With an active and supportive community, you can engage in discussions, exchange ideas, and collaborate on projects with peers who share your passion.

Personalized

Learning adapted to your needs

Our platform uses intelligent algorithms to personalize your learning experience. Receive tailored recommendations that focus on your goals and progress.

LOGIN

REGISTER

HOME PAGE

- Welcoming the User
- About Us Cards
- Buttons to Navigate
- Contact Us Form

Personalized

Learning adapted to your needs

Our platform uses intelligent algorithms to personalize your learning experience. Receive tailored recommendations that focus on your goals and progress.

LOGIN

REGISTER

Name

Email

COMMENTS

Submit



Designed and Developed by [Sam](#) and [Dharun](#)

Register

Firstname:

Dharun

Lastname:

Sam

Username (E mail):

dyc@gmail.com

Password:

.....

At least 8 characters

At least 1 UpperCase character

At least 1 LowerCase character

At least 1 number

At least 1 special character

Register

Existing User? [Sign In](#)

REGISTER PAGE

- **Collect User Information**
- **Form Validation**
- **Unique Email**
- **Password Encryption**
- **Mongo DB Atlas**



LOGIN PAGE

- **Username and Password**
- **Form Validation**
- **Navigates to User's Dashboard**

Login

Username (E-mail ID) :

dyc@gmail.com

Password :

.....

Login

[Create an Account](#)

WELCOME DHARUN !

Every Click Takes You Closer to Mastery!



JAVA

0% COMPLETED

START



JAVASCRIPT

0% COMPLETED



DASHBOARD MODULE

- Welcoming the User
- List of Courses
[5 courses as of now]
- Progress Tracking
- Dynamic Buttons



INITIAL ASSESSMENT

- **Evaluate Prior Knowledge**
- **Multiple Choice Questions**

Test

1. What does the acronym 'JVM' stand for?

- ☒ Java Virtual Machine
- ☐ Java Verified Module
- ☐ Java Version Manager
- ☐ Java Variable Manager

2. Which principle allows Java programs to run on different platforms without modification?

- ☒ OOP
- ☐ Platform dependency
- ☐ Write Once, Run Anywhere
- ☐ Dynamic linking



INITIAL ASSESSMENT

- **Evaluate Prior Knowledge**
- **Multiple Choice Questions**
- **Immediate Result Calculation**
- **Course Recommendation**

Total Correct Answers:
20

**TAKE ADVANCED
COURSE**

START FROM SCRATCH



THE DATABASE

Stored in MongoDB Atlas and
monitored using MongoDB Compass

MongoDB Compass - cluster0.v6b6a.mongodb.net/infodb.users

Connections Edit View Collection Help

Compass

My Queries

CONNECTIONS (18)

Search connections

- cluster0.1atgh.mongodb.net
- cluster0.olqqi.mongodb.net
- cluster0.olqqi.mongodb.net
- cluster0.qnlm1.mongodb.net
- cluster0.v6b6a.mongodb.net
 - LearningPlatform
 - admin
 - config
 - infodb
 - users
 - local
 - mvc
 - netflix
 - test
 - vicky
- DecodeYourCourse
- localhost:27017

cluster0.v6b6a.mongodb.net > infodb > users

Documents (260) Aggregations Schema Indexes (1) Validation

Type a query: { field: 'value' } or [Generate query](#)

Explain Reset Find </> Options

ADD DATA EXPORT DATA UPDATE DELETE

50 251 - 260 of 260

```
{
  "_id": ObjectId('67dd58f90b48cd09b2d51732'),
  "firstname": "DHARUN",
  "lastname": "SAM",
  "username": "dyc@gmail.com",
  "password": "$2a$10$ZCLNB946VZYRB/3mLUmUqeKUKSTjnNVuia/gzNM3I.zY7JKNQtM/C",
  "initial": 17,
  "state": 33,
  "java": 1,
  "javaprogress": 29,
  "python": 0,
  "pythonprogress": 33,
  "js": 33,
  "jsprogress": 35,
  "html": 11,
  "htmlprogress": 18,
  "css": 0,
  "cssprogress": 1,
  "willing": 1,
  "completedcourses": Array (2),
  "selectedcourses": Array (4),
  "__v": 28,
  "course": "JS"
}
```



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

888SAM-B / Frontend

Q Type to search

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

Frontend Public

Pin

Unwatch 1

Fork 0

Starred 1

ui

4 Branches 0 Tags

Go to file

Add file

<> Code

About

This branch is 47 commits ahead of main.

Contribute

dharun-2004 CSS

89377b1 · yesterday 48 Commits

public	bgchange	2 weeks ago
src	css	yesterday
.env	env	last week
.gitignore	my first commit	2 weeks ago
README.md	ui	2 months ago
eslint.config.js	ui	2 months ago
index.html	Design	3 weeks ago
package-lock.json	env	last week

Releases

No releases published
[Create a new release](#)

Packages

No packages published
[Publish your first package](#)



TESTING

API testing Using Postman

Home

Workspaces

Explore

Search Postman

Sign In

Create Account

You are using the Lightweight API Client, sign in or create an account to work with collections, environments and unlock all free features in Postman.

History

New

Import

GET https://testapidyc.up.railway.app/python

GET https://api-1-ycbp.onrender.com/python

+

...

Today

GET https://testapidyc.up.railway.app/python

GET https://api-1-ycbp.onrender.com/python

Yesterday

GET https://testapi-t2fc.onrender.com/python

GET https://api-1-ycbp.onrender.com/python

GET https://testapidyc.up.railway.app/python

GET https://testapidyc.up.railway.app/python

GET https://testapidyc.up.railway.app/python

POST https://testapidyc.up.railway.app/python

GET https://testapidyc.up.railway.app/python

GET https://testapidyc.up.railway.app/python

December 16

GET https://api-1-ycbp.onrender.com/python

December 14

GET https://api-1-ycbp.onrender.com/python

POST 127.0.0.1:3000/python

POST https://api-1-ycbp.onrender.com/python

POST http://localhost:3000/courses

https://api-1-ycbp.onrender.com/python

Save

</>

GET

https://api-1-ycbp.onrender.com/python

Send

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

Key

Value

Bulk Edit

Body

Cookies

Headers (14)

Test Results

Status: 200 OK

Time: 40.24 s

Size: 6.24 KB

Save Response

Pretty

Raw

Preview

Visualize

JSON

1

2

3

4

5

6

7

{

"id": 1,

"module": "Introduction to Python",

"title": "What is Python?",

"content": "Python is a high-level, interpreted programming language known for its simplicity and versatility. It was created by Guido van Rossum and first released in 1991. Python's design philosophy emphasizes code readability. It supports multiple programming paradigms, including procedural, object-oriented, and functional programming. Python's syntax is clean and easy to understand. Its dynamic typing and automatic memory management make it a popular choice for developers. The Python Package Index (PyPI) hosts thousands of third-party libraries. Python is widely used in web development, data analysis, artificial intelligence, and automation. Many major companies, including Google and Netflix, use Python in production environments. Python's active community and extensive documentation make it easy to learn and use."

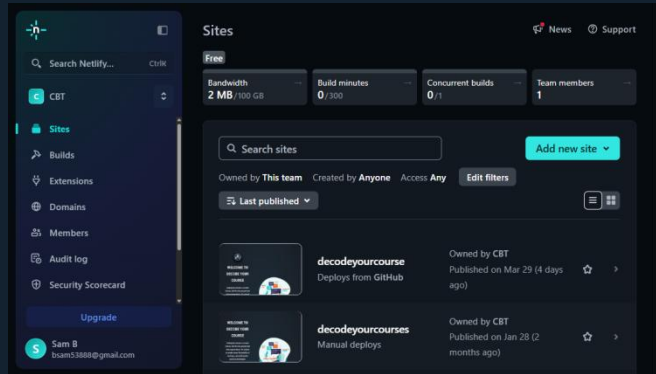
}

Console

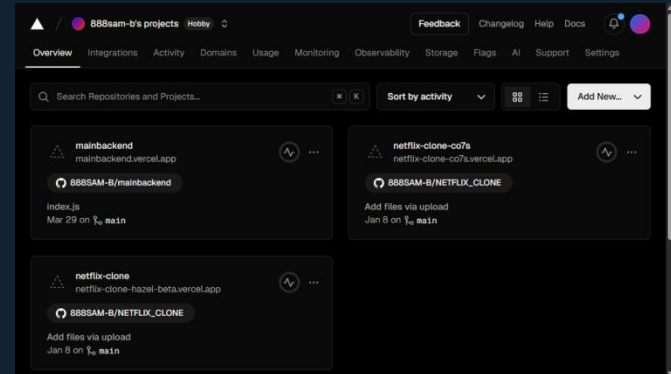
Not connected to a Postman account



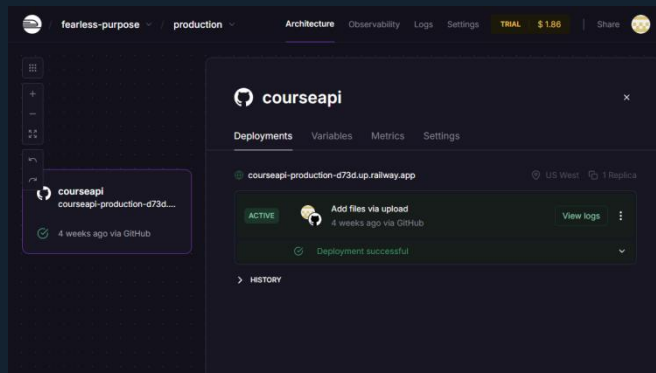
DEPLOYMENT AND HOSTING



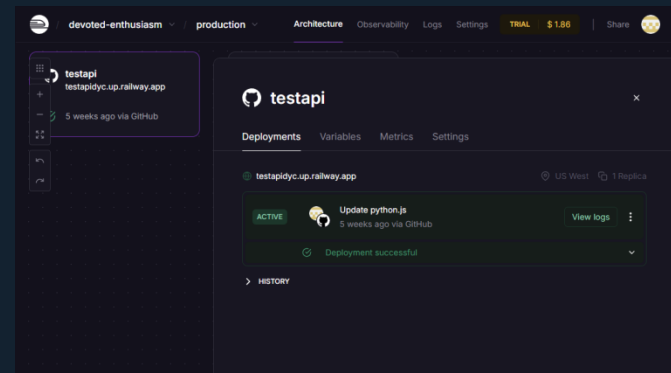
FRONTEND - NETLIFY



BACKEND- VERCEL



Course content - Railways



Assessment content - Railways



WEBSITE URL

decodeyourcourse.netlify.app



CONCLUSION



Efficient Learning



AI Integration



User-Friendly



Simplicity



Future Scope



**LOOKING FORWARD
TO YOUR FEEDBACK
AND QUESTIONS**



THANK YOU