MitrEdu -

An Interactive Learning Platform

Presented by

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Problem Statement

MitrEdu is an online learning platform designed to facilitate student lea practice, and progress tracking. The platform includes features such as:

- **User Authentication:** Secure login and registration using Firebase Authentication.
- **Student Dashboard:** Personalized dashboard displaying enrolled courses and progress within each course, and performance metrics.
- **Quizzes:** Interactive quizzes to test knowledge and track learning outcomes.
- **ProgressTracking:** Visual representation of learning progress and achievements.
- **Marks Predictor (ML):** Predicts student exam scores using study habits and wellness factors, offering personalized improvement insights.

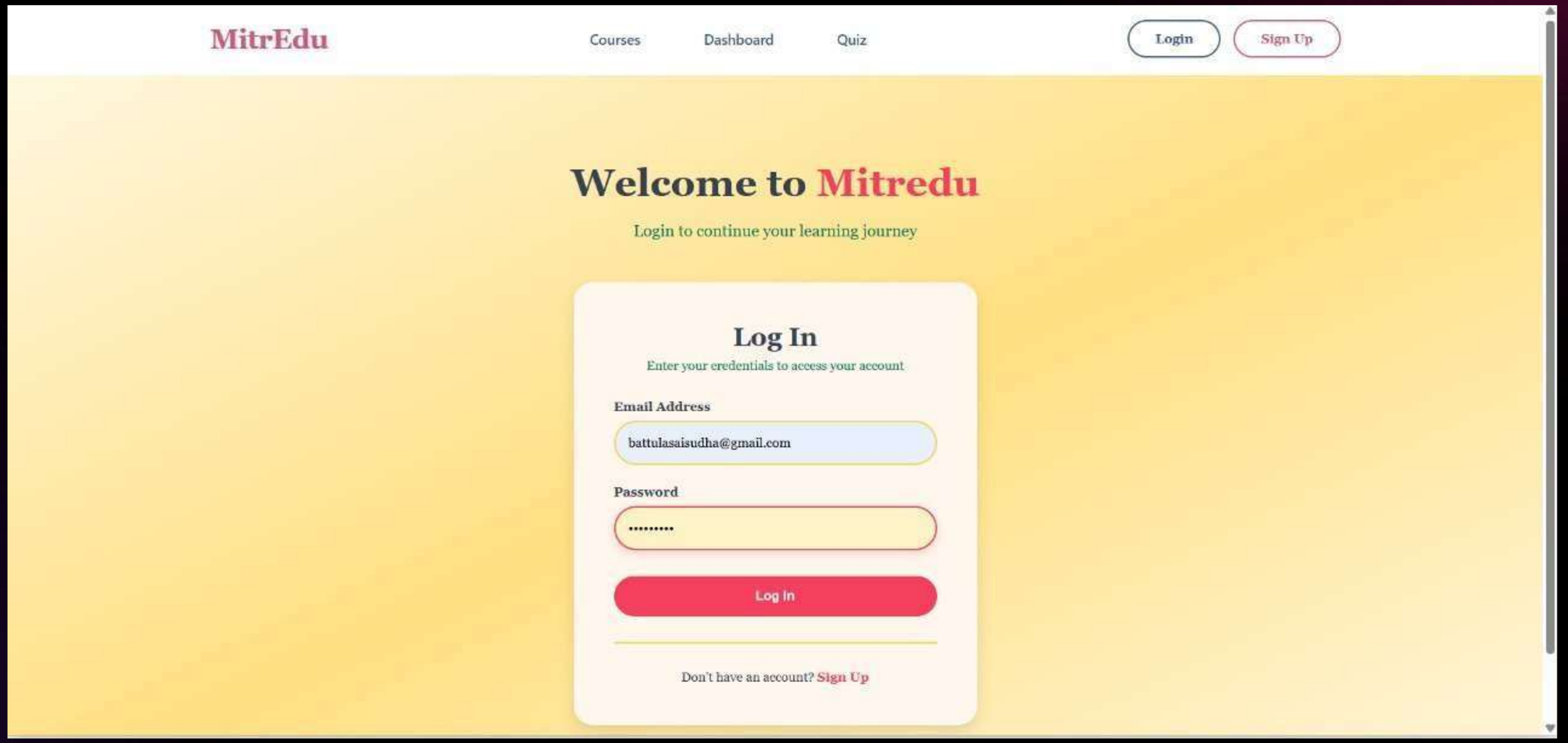
React Topics Covered

- **Functional Components** – Building reusable UI elements for different parts of the application.
- **Hooks** – Implementing useState for state management and useEffect for side effects and data fetching.
- **Routing** – Enabling navigation between different pages of the application.
- **Form Handling** – Using controlled components for handling user inputs in forms.
- **Event Handling** – Capturing user interactions like button clicks, form submissions.
- **Conditional Rendering** – Displaying content dynamically based on user actions or status.

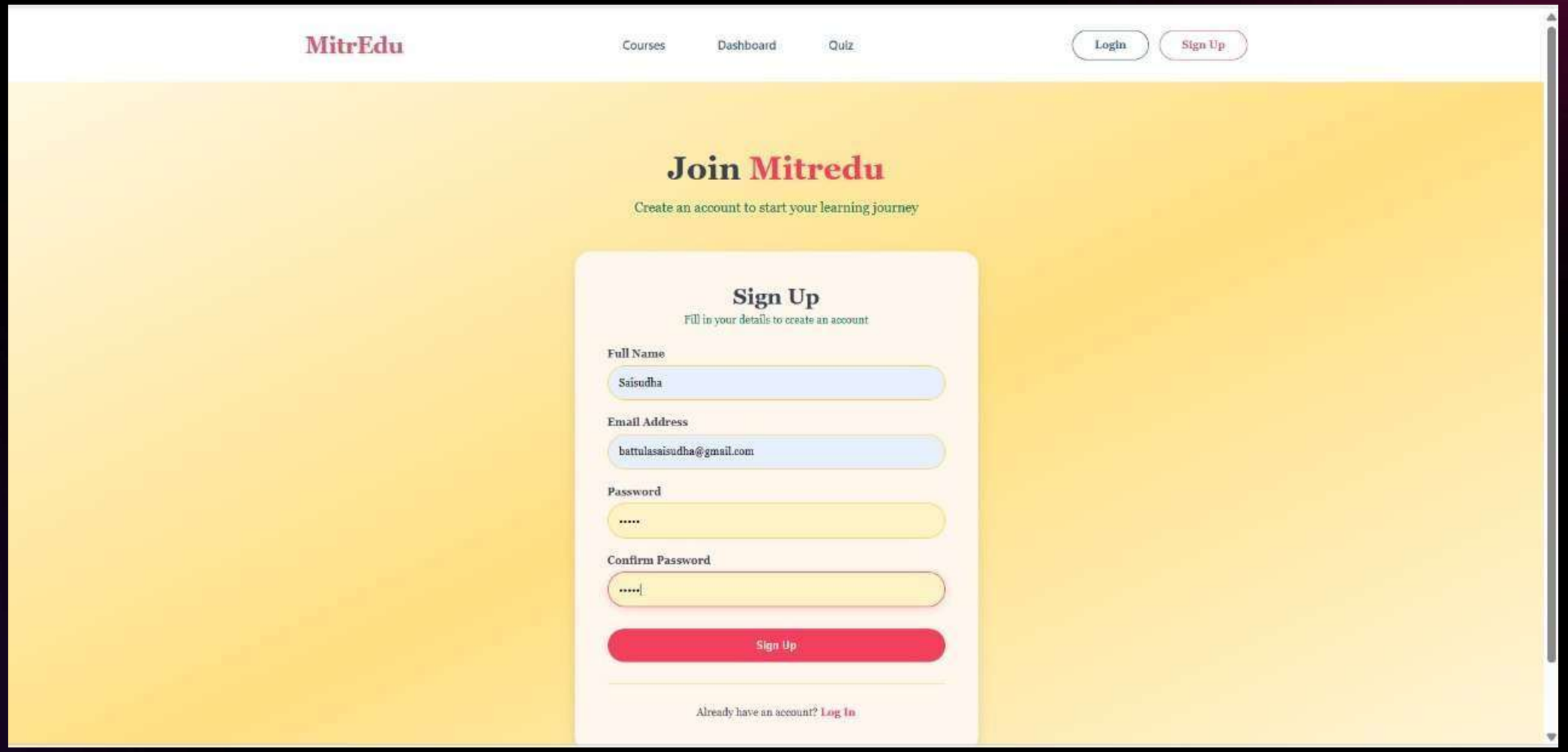
Output

Home page

Login


MitrEdu
Courses
Dashboard
Quiz
Login
Sign Up
Welcome to Mitredu
Login to continue your learning journey
Log In
Enter your credentials to access your account
Email Address
battulasaisudha@gmail.com
Password
Log in
Don't have an account? Sign Up

Sign up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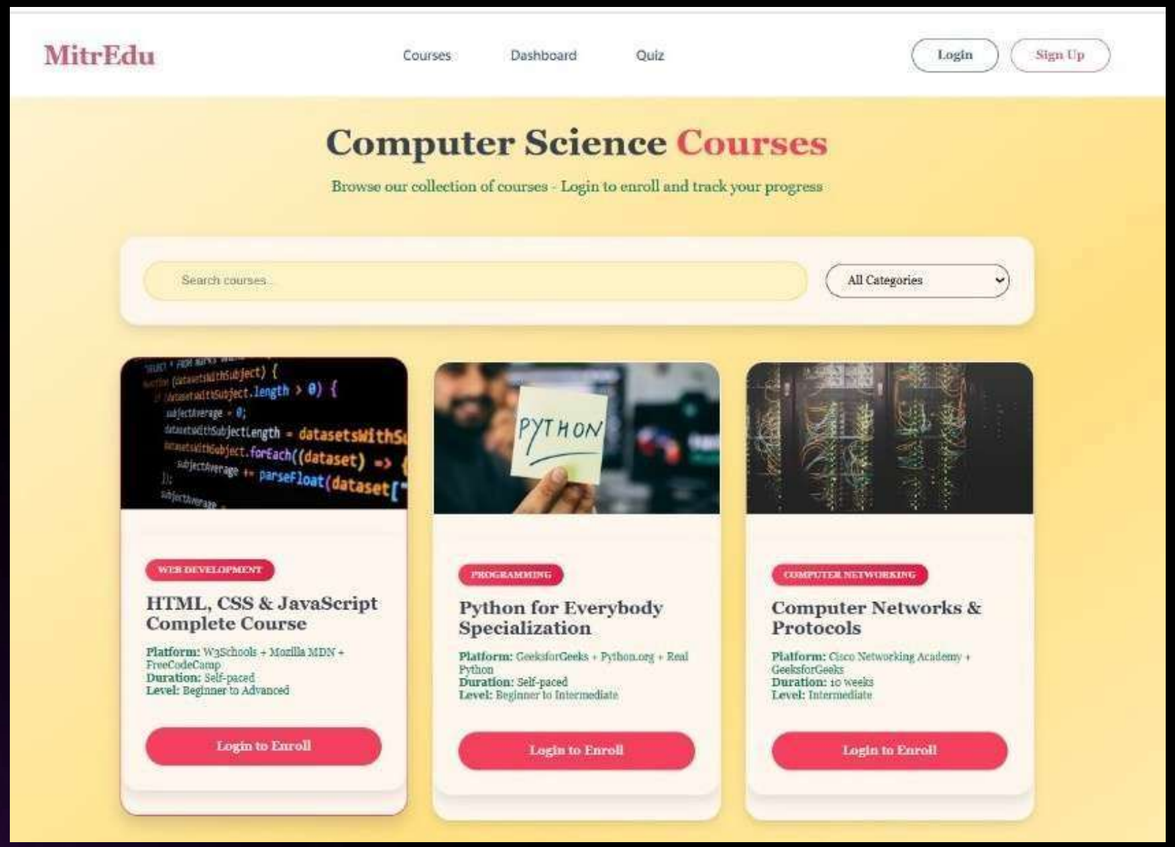
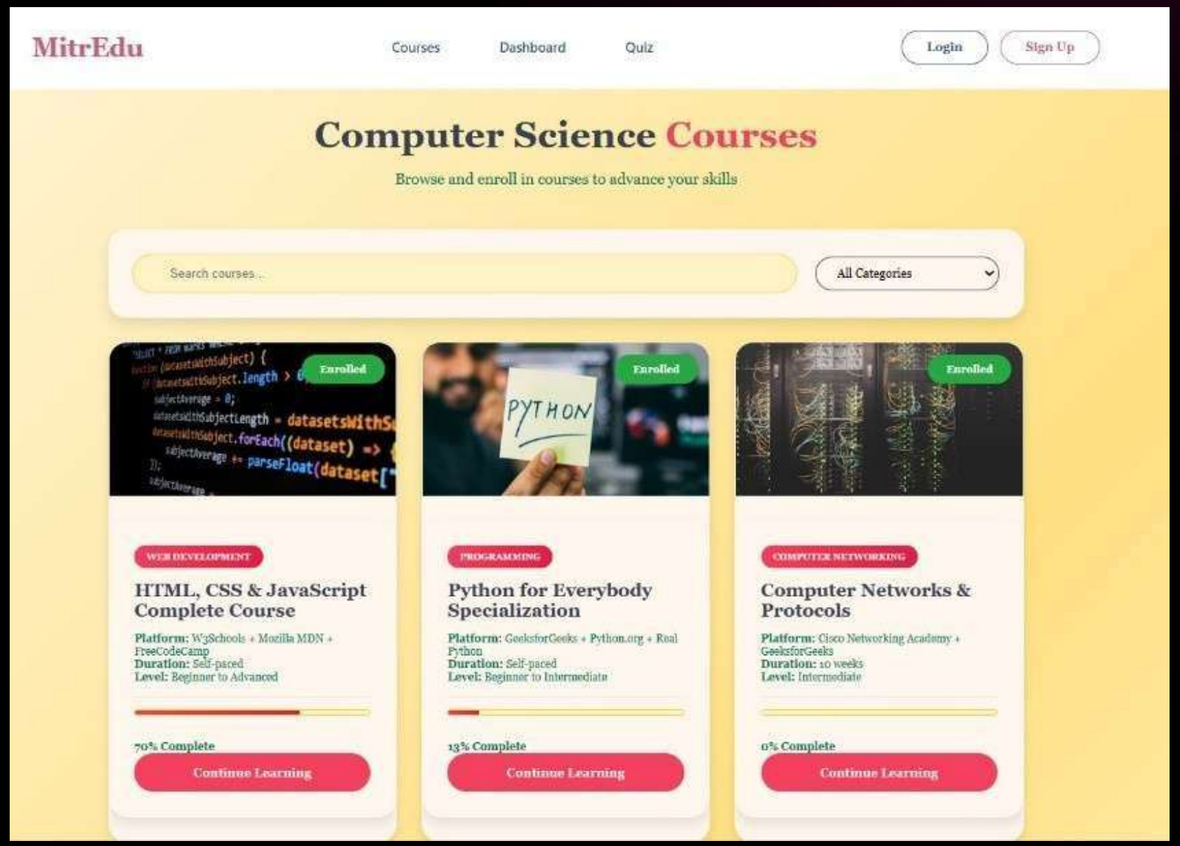
Login
Sign Up
Join Mitredu
Create an account to start your learning journey
Sign Up
Fill in your details to create an account
Full Name
Saisudha
Email Address
battulasaisudha@gmail.com
Password
Confirm Password
Sign Up
Already have an account? Log In

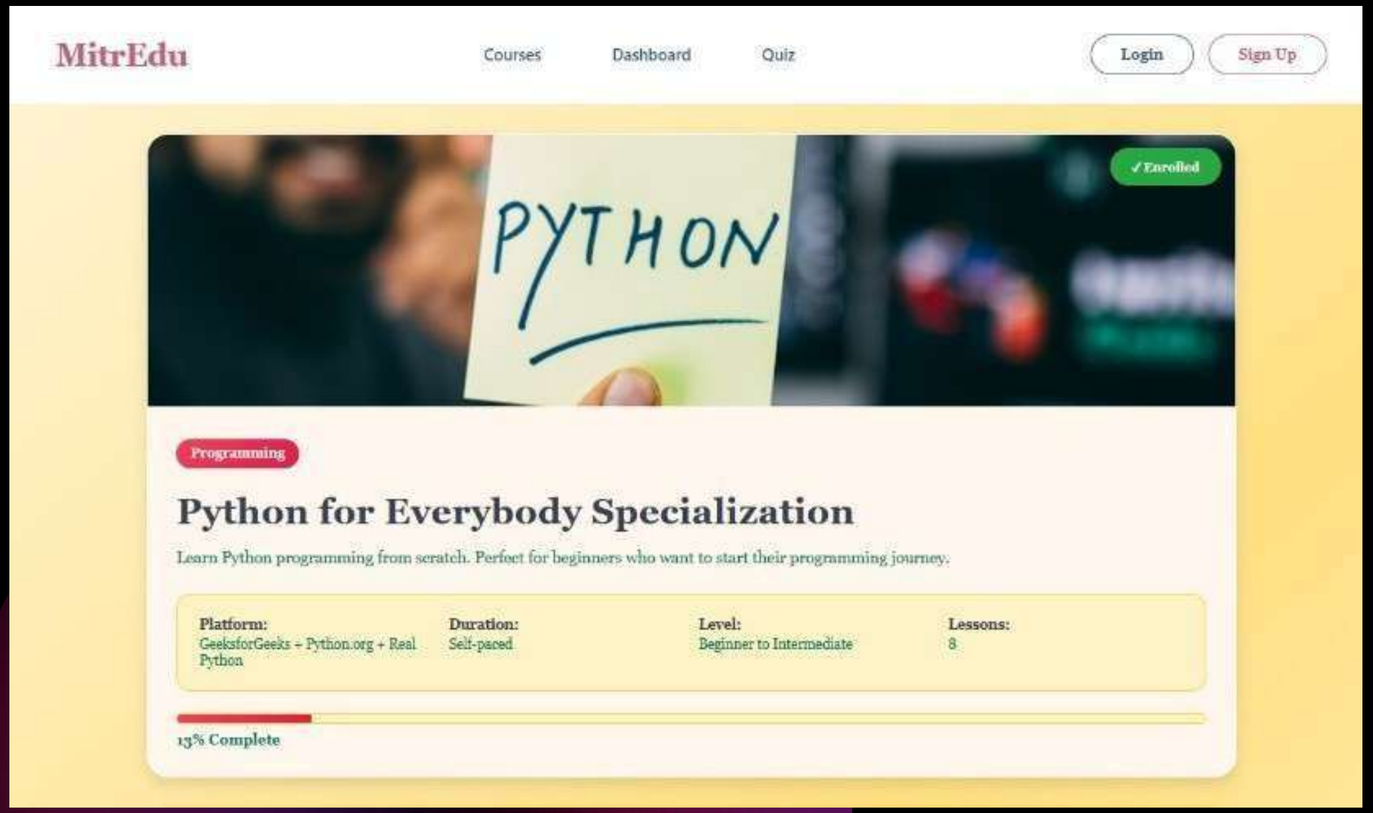
Courses



Before login

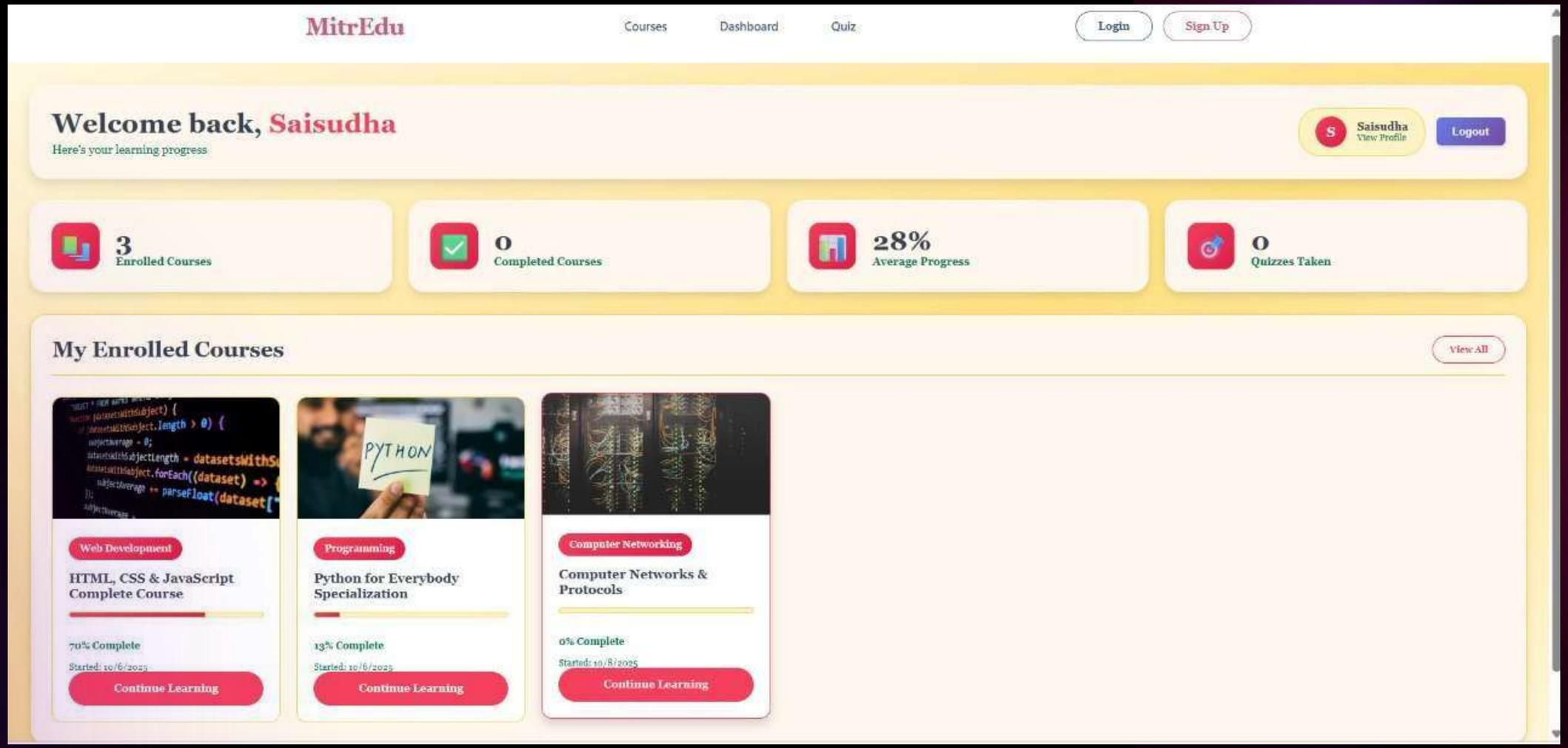
After login




MitrEdu
Courses
Dashboard
Quiz
Login
Sign Up
PYTHON
✓ Enrolled
Programming
Python for Everybody Specialization
Learn Python programming from scratch. Perfect for beginners who want to start their programming journey.
Platform:
GeeksforGeeks + Python.org + Real Python
Duration:
Self-paced
Level:
Beginner to Intermediate
Lessons:
8
13% Complete

Course Curriculum
1
Python Installation and Setup
20 mins
2
Variables and Data Types
40 mins
3
Control Flow and Loops
50 mins
4
Functions and Modules
60 mins
5
Data Structures
70 mins
6
File Handling
45 mins
7
Object-Oriented Programming
80 mins
8
Error Handling
35 mins

Dashboard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Courses
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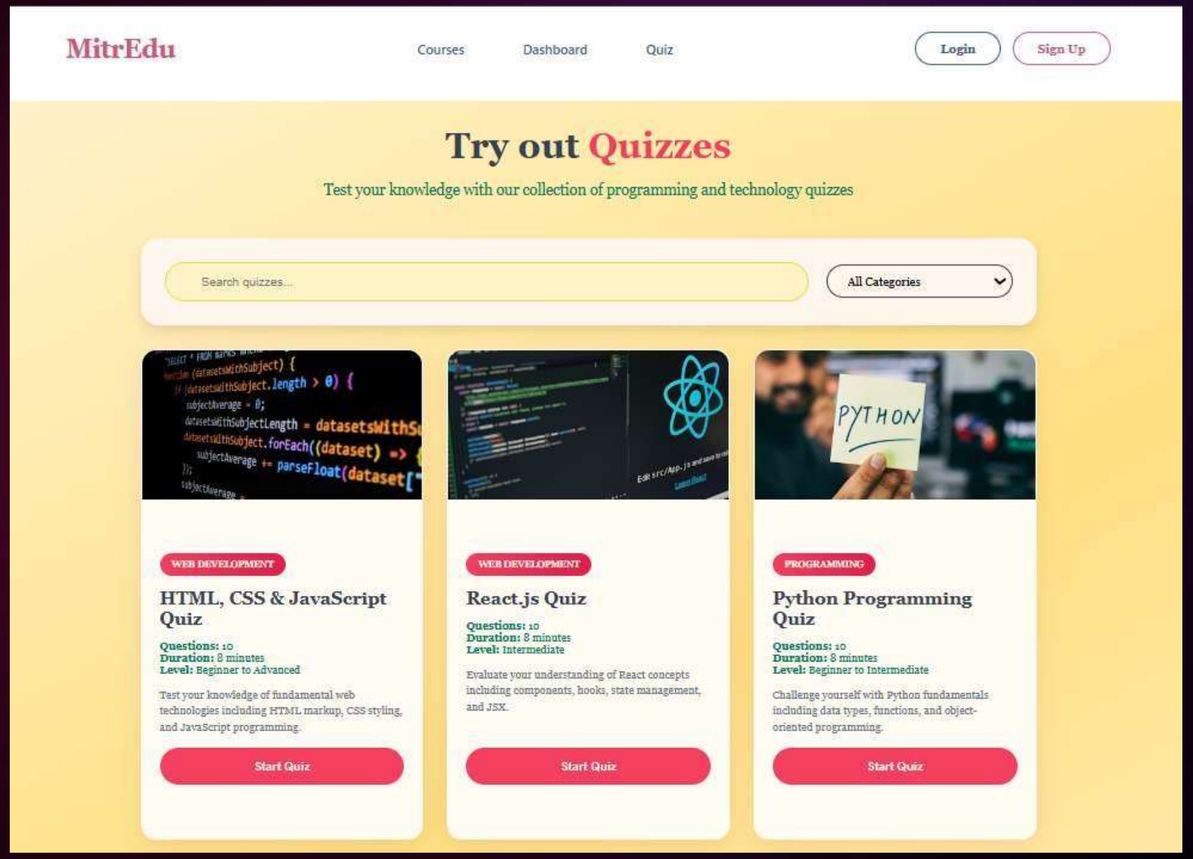
Quiz
Login
Sign Up
Welcome back, Saisudha
Here's your learning progress
S
Saisudha
View Profile
Logout
3
Enrolled Courses
0
Completed Courses
28%
Average Progress
0
Quizzes Taken
My Enrolled Courses
View All
PYTHON
Web Development
HTML, CSS & JavaScript Complete Course
70% Complete
Started: 10/6/2025
Continue Learning
Programming
Python for Everybody Specialization
13% Complete
Started: 10/6/2025
Continue Learning
Computer Networking
Computer Networks & Protocols
0% Complete
Started: 10/8/2025
Continue Learning

Quiz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Test your knowledge with our collection of programming and technology quizzes
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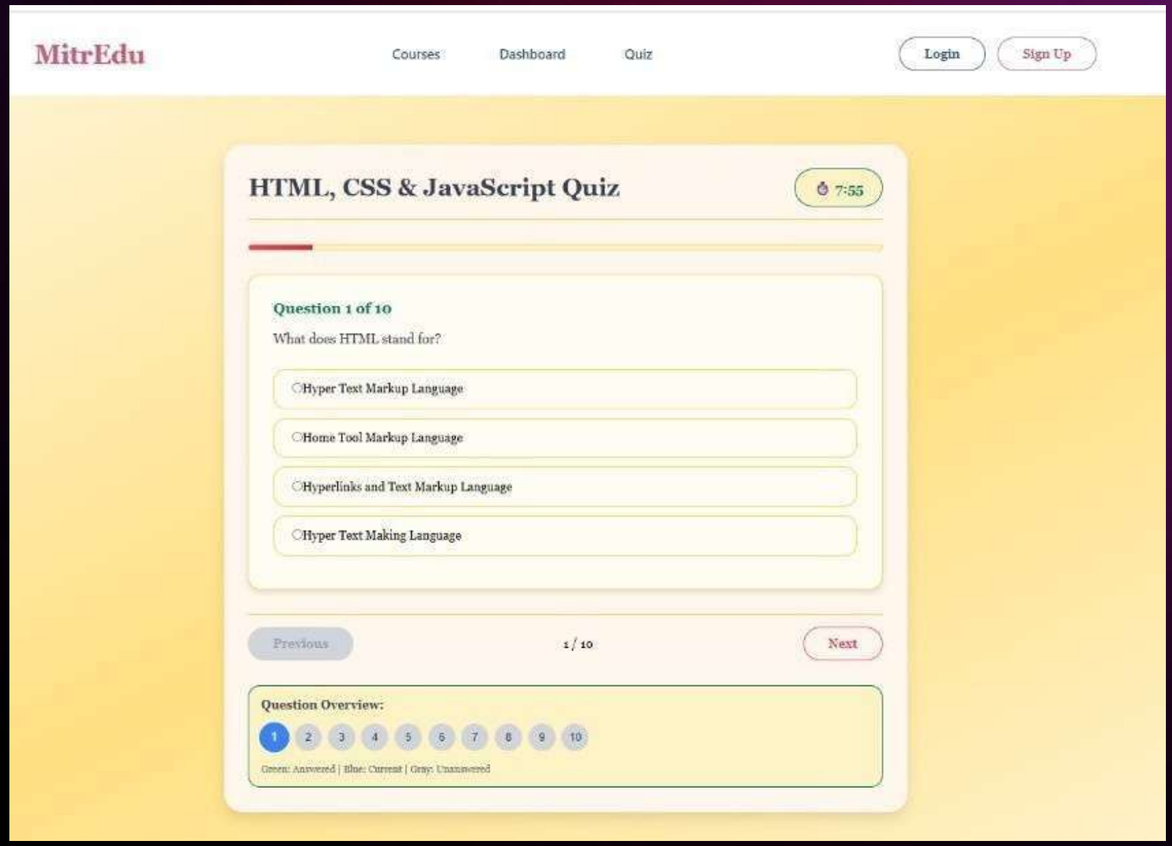
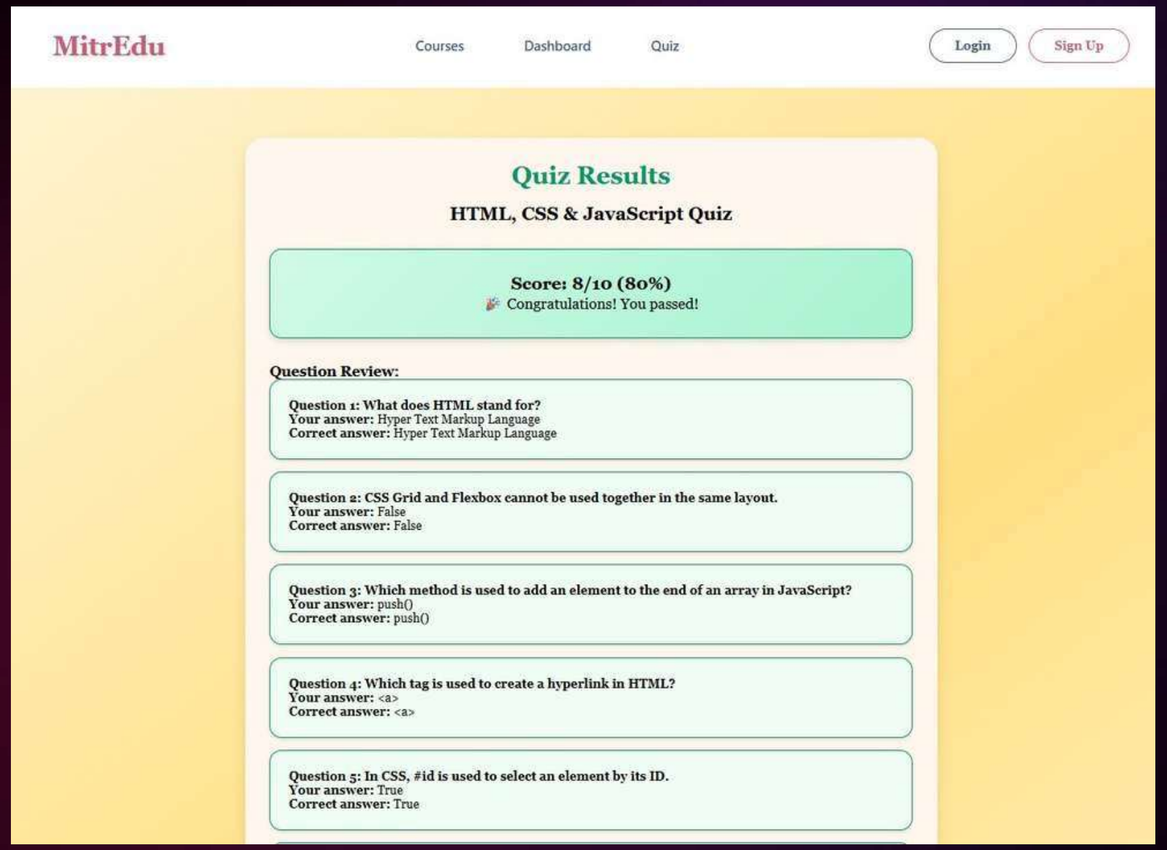
All Categories
WEB DEVELOPMENT
HTML, CSS & JavaScript Quiz
Questions: 10
Duration: 8 minutes
Level: Beginner to Advanced
Test your knowledge of fundamental web technologies including HTML markup, CSS styling, and JavaScript programming.
Start Quiz
WEB DEVELOPMENT
React.js Quiz
Questions: 10
Duration: 8 minutes
Level: Intermediate
Evaluate your understanding of React concepts including components, hooks, state management, and JSX.
Start Quiz
PROGRAMMING
Python Programming Quiz
Questions: 10
Duration: 8 minutes
Level: Beginner to Intermediate
Challenge yourself with Python fundamentals including data types, functions, and object-oriented programming.
Start Quiz


MitrEdu
Courses
Dashboard
Quiz
Login
Sign Up
HTML, CSS & JavaScript Quiz
7:55
Question 1 of 10
What does HTML stand for?
Hyper Text Markup Language
Home Tool Markup Language
Hyperlinks and Text Markup Language
Hyper Text Making Language
Previous
1 / 10
Next
Question Overview:
1 2 3 4 5 6 7 8 9 10
Green: Answered | Blue: Current | Gray: Unanswered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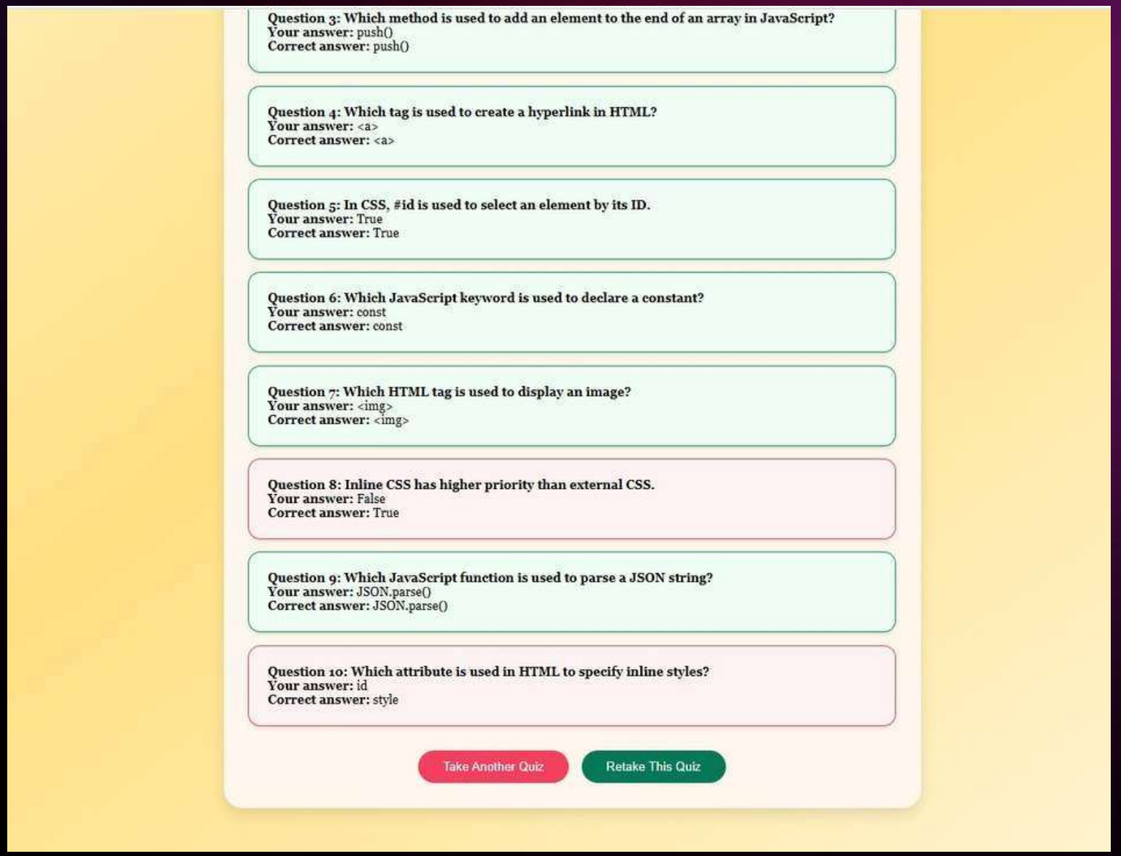
Courses
Dashboard
Quiz
Login
Sign Up
Quiz Results
HTML, CSS & JavaScript Quiz
Score: 8/10 (80%)
Congratulations! You passed!
Question Review:
Question 1: What does HTML stand for?
Your answer: Hyper Text Markup Language
Correct answer: Hyper Text Markup Language
Question 2: CSS Grid and Flexbox cannot be used together in the same layout.
Your answer: False
Correct answer: False
Question 3: Which method is used to add an element to the end of an array in JavaScript?
Your answer: push()
Correct answer: push()
Question 4: Which tag is used to create a hyperlink in HTML?
Your answer: <a>
Correct answer: <a>
Question 5: In CSS, #id is used to select an element by its ID.
Your answer: True
Correct answer: True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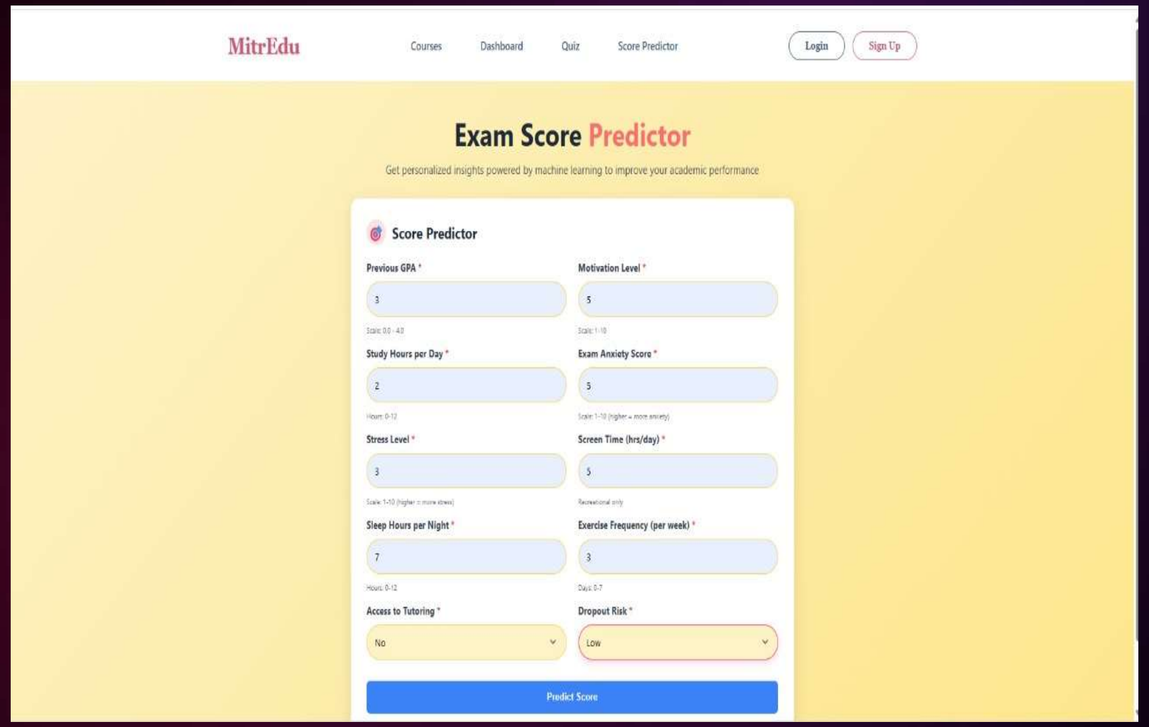
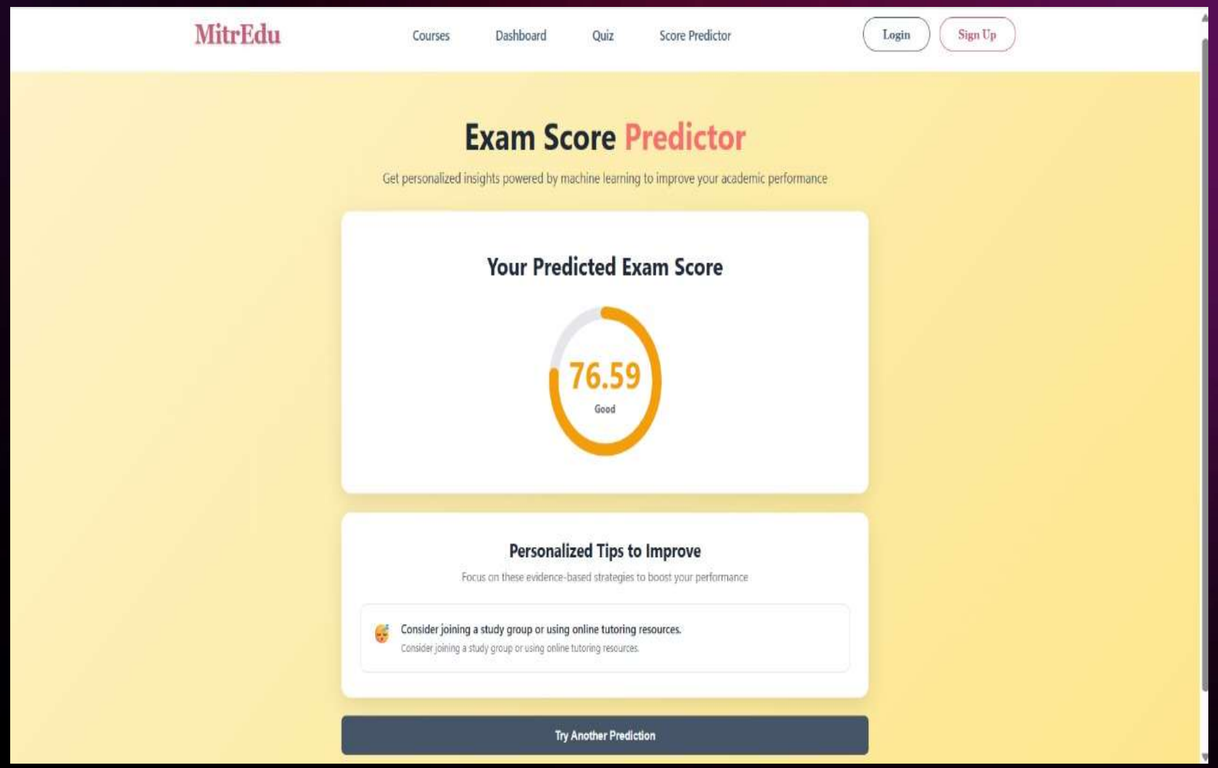
Correct answer: <a>
Question 5: In CSS, #id is used to select an element by its ID.
Your answer: True
Correct answer: True
Question 6: Which JavaScript keyword is used to declare a constant?
Your answer: const
Correct answer: const
Question 7: Which HTML tag is used to display an image?
Your answer: <img>
Correct answer: <img>
Question 8: Inline CSS has higher priority than external CSS.
Your answer: False
Correct answer: True
Question 9: Which JavaScript function is used to parse a JSON string?
Your answer: JSON.parse()
Correct answer: JSON.parse()
Question 10: Which attribute is used in HTML to specify inline styles?
Your answer: id
Correct answer: style
Take Another Quiz
Retake This Quiz

Score Predictor





Learning Outcomes

- **React Development:** Gained proficiency in building single-page applications using React.
- **State Management:** Learned effective state management techniques using React Hooks.
- **Firebase Integration:** Acquired experience in integrating Firebase services for authentication and real-time data handling.
- **UI/UX Design:** Enhanced skills in designing user-friendly interfaces with a focus on user experience.
- **Machine Learning Integration:** Gained hands-on experience integrating an ML-based marks predictor into a web platform.
- **Problem-Solving:** Developed problem-solving skills through debugging and optimizing application performance.

ThankYou!