```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Computer Science Courses</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #f4f4f4;
            margin: 0;
            padding: 0;
            display: flex;
            flex-direction: column;
            align-items: center;
            justify-content: center;
            min-height: 100vh;
        }
        h1, h2, h3 {
            color: #333;
        }
        nav {
            margin-bottom: 20px;
        }
        nav a {
            margin: 0 10px;
            text-decoration: none;
            color: #007BFF;
        }
        nav a:hover {
            text-decoration: underline;
        }
        form {
            background: #fff;
            padding: 20px;
            border-radius: 5px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }
        label {
            display: block;
            margin-bottom: 8px;
            color: #333;
        }
        input {
```

```
            width: 100%;
            padding: 8px;
            margin-bottom: 10px;
            border: 1px solid #ccc;
            border-radius: 4px;
        }
        button {
            background-color: #007BFF;
            color: white;
            padding: 10px 15px;
            border: none;
            border-radius: 4px;
            cursor: pointer;
        }
        button:hover {
            background-color: #0056b3;
        }
        ul {
            list-style-type: none;
            padding: 0;
        }
        ul li {
            background: #fff;
            margin: 10px 0;
            padding: 10px;
            border-radius: 4px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }
        ul li a {
            text-decoration: none;
            color: #333;
        }
    </style>
</head>
<body>
    <div id="app">
        <div id="home">
            <div style="background-color: blue;">
            <img
src="http://www.chaitanya.edu.in/wp-content/uploads/2020/05/white_poynter-e1588583077703.
png"/>
            </div>
            <h1>Welcome to the Computer Science Courses Website</h1>
            <nav>
```

```html
            <a href="#" onclick="showPage('login')">Login</a>
            <a href="#" onclick="showPage('signup')">Sign Up</a>
            <a href="#" onclick="showPage('forgotPassword')">Forgot Password</a>
        </nav>
    </div>
    <div id="login" style="display:none;">
        <div style="background-color: blue;">
            <img
src="http://www.chaitanya.edu.in/wp-content/uploads/2020/05/white_poynter-e1588583077703.
png"/>
        </div>
        <h1>Login</h1>
        <form id="loginForm" style="padding:15px">
            <div style="padding: 20px;">
            <label for="username">Username:</label>
            <input type="text" id="username" name="username" required>
            <label for="password">Password:</label>
            <input type="password" id="password" name="password" required>
            <button type="submit">Login</button>
            <div id="loginError" style="color: red; display: none;">Invalid username or
password</div>
        </div>
        </form>
    </div>
    <div id="signup" style="display:none;">
        <div style="background-color: blue;">
            <img
src="http://www.chaitanya.edu.in/wp-content/uploads/2020/05/white_poynter-e1588583077703.
png"/>
        </div>
        <h1>Sign Up</h1>
        <form id="signupForm">
            <label for="username">Username:</label>
            <input type="text" id="username" name="username" required>
            <label for="email">Email:</label>
            <input type="email" id="email" name="email" required>
            <label for="password">Password:</label>
            <input type="password" id="password" name="password" required>
            <button type="submit">Sign Up</button>
        </form>
    </div>
    <div id="forgotPassword" style="display:none;">
        <div style="background-color: blue;">
```

```html
        <img
src="http://www.chaitanya.edu.in/wp-content/uploads/2020/05/white_poynter-e1588583077703.
png"/>
        </div>
      <h1>Forgot Password</h1>
      <form id="forgotPasswordForm">
        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required>
        <button type="submit">Reset Password</button>
      </form>
    </div>
    <div id="dashboard" style="display:none;">
      <div style="background-color: blue;">
        <img
src="http://www.chaitanya.edu.in/wp-content/uploads/2020/05/white_poynter-e1588583077703.
png"/>
        </div>
      <h1>Dashboard</h1>
      <nav>
        <a href="#" onclick="showPage('home')">Home</a>
        <a href="#" onclick="showPage('login')">Logout</a>
      </nav>
      <h2>Courses</h2>
      <ul>
        <li><a href="#" onclick="showCourse(1)">C Programming</a></li>
        <li><a href="#" onclick="showCourse(2)">Introduction to AI</a></li>
        <li><a href="#" onclick="showCourse(3)">Data Structures</a></li>
        <li><a href="#" onclick="showCourse(4)">Machine Learning</a></li>
        <li><a href="#" onclick="showCourse(5)">Html and javascript</a></li>
      </ul>
    </div>
    <div id="courseDetails" style="display:none;">
      <div style="background-color: blue;">
        <img
src="http://www.chaitanya.edu.in/wp-content/uploads/2020/05/white_poynter-e1588583077703.
png"/>
        </div>
      <h1>Course Details</h1>
      <nav>
        <a href="#" onclick="showPage('dashboard')">Back to Dashboard</a>
      </nav>
      <div id="courseContent">
        <h2>Course Title</h2>
        <p>Course Description</p>
```

```html
        <h3>Assignments</h3>
        <ul>
          <li>Assignment 1</li>
          <li>Assignment 2</li>
          <li>Assignment 3</li>
          <li>Assignment 4</li>
          <li>Assignment 5</li>
        </ul>
      </div>
    </div>
  </div>
  <script>
    function showPage(page) {
      const pages = ['home', 'login', 'signup', 'forgotPassword', 'dashboard', 'courseDetails'];
      pages.forEach(p => {
        document.getElementById(p).style.display = p === page ? 'block' : 'none';
      });
    }

    document.addEventListener('DOMContentLoaded', () => {
      const loginForm = document.getElementById('loginForm');
      const signupForm = document.getElementById('signupForm');
      const forgotPasswordForm = document.getElementById('forgotPasswordForm');
      const loginError = document.getElementById('loginError');

      const validUser = {
        username: 'admin@123',
        password: '123456'
      };

      if (loginForm) {
        loginForm.addEventListener('submit', (e) => {
          e.preventDefault();
          const username = document.getElementById('username').value;
          const password = document.getElementById('password').value;

          if (username === validUser.username && password === validUser.password) {
            showPage('dashboard');
          } else {
            loginError.style.display = 'block';
          }
        });
      }
```

```javascript
            if (signupForm) {
                signupForm.addEventListener('submit', (e) => {
                    e.preventDefault();
                    // Since we are hardcoding the user, we will not actually process the signup.
                    // Show login page after "signing up"
                    showPage('login');
                });
            }

            if (forgotPasswordForm) {
                forgotPasswordForm.addEventListener('submit', (e) => {
                    e.preventDefault();
                    // Implement forgot password logic here
                    alert('Password reset link has been sent to your email.');
                    showPage('login');
                });
            }
        });

    function showCourse(courseId) {
        const courses = {
 1: {
   title: 'C Programming',
   description: 'C is a general-purpose computer programming language. It was created in the
1970s by Dennis Ritchie, and remains very widely used and influential. By design, C\'s features
cleanly reflect the capabilities of the targeted CPUs.',
   assignments: [
     '1. Write a program to calculate the factorial of a number.',
     '2. Write a program to check if a number is an Armstrong number (sum of cubes of digits is
equal to the number).',
     '3. Write a program to find the roots of a quadratic equation (ax^2 + bx + c = 0).',
     '4. Write a program to reverse a number.',
     '5. Write a program to check if a number is a palindrome (reads the same backward as
forward).',
   ],
 },
 2: {
   title: 'Introduction to AI',
   description: 'Artificial intelligence (AI), in its broadest sense, is intelligence exhibited by
machines, particularly computer systems. It is a field of research in computer science that
develops and studies methods and software that enable machines to perceive their environment
and uses learning and intelligence to take actions that maximize their chances of achieving
defined goals.',
   assignments: [
```

'1. Implement a simple search algorithm (e.g., breadth-first search) to navigate a maze.',
      '2. Develop a basic game playing agent (e.g., tic-tac-toe) using minimax or alpha-beta pruning.',
      '3. Explore knowledge representation techniques (e.g., propositional logic, semantic networks) and solve simple problems.',
      '4. Apply machine learning techniques (e.g., decision trees, k-nearest neighbors) to a small dataset.',
      '5. Build a basic chatbot that can understand simple user queries and respond accordingly.',
    ],
  },
  3: {
    title: 'Data Structures',
    description: 'Data structures are essential components that help organize and store data efficiently in computer memory. They provide a way to manage and manipulate data effectively, enabling faster access, insertion, and deletion operations.',
    assignments: [
      '1. Implement an array data structure with basic operations (e.g., access, insert, delete).',
      '2. Design and implement a linked list data structure (singly linked or doubly linked).',
      '3. Explore stacks and queues using arrays or linked lists, and implement their operations (push, pop, enqueue, dequeue).',
      '4. Apply binary search trees for efficient searching and sorting.',
      '5. Implement a hash table for data storage and retrieval based on key-value pairs.',
    ],
  },
  4: {
    title: 'Machine Learning',
    description: 'Machine learning (ML) is a branch of artificial intelligence (AI) and computer science that focuses on the using data and algorithms to enable AI to imitate the way that humans learn, gradually improving its accuracy.',
    assignments: [
      '1. Implement linear regression to predict a continuous target variable based on one or more independent features.',
      '2. Train a logistic regression model to classify data points into discrete categories.',
      '3. Explore decision trees or random forests for classification and understand their decision-making process.',
      '4. Apply k-means clustering to group data points into unlabeled clusters based on similarities.',
      '5. Evaluate the performance of machine learning models using metrics like accuracy, precision, recall, and F1-score.',
    ],
  },
  5: {
    title: 'HTML and JavaScript',

```
    description: 'HTML (HyperText Markup Language) defines the structure of a web page, and
JavaScript is a programming language that adds interactivity and dynamic behavior to web
pages. These technologies are fundamental to modern web development.',
    assignments: [
      '1. Create a simple HTML page with basic elements (headings, paragraphs, images, links)
and apply CSS styling.',
      '2. Implement basic JavaScript functions to manipulate the DOM (Document Object Model)
and modify web page content dynamically.',
      '3. Build an interactive web form (e.g., contact form) that captures user input and handles
form submission.',
      '4. Develop a simple JavaScript game using event listeners and DOM manipulation.',
      '5. Explore JavaScript libraries or frameworks (e.g., jQuery, React) to enhance web
development capabilities.',
    ],
  },
};

        const course = courses[courseId];
        if (course) {
          const courseContent = document.getElementById('courseContent');
          courseContent.querySelector('h2').textContent = course.title;
          courseContent.querySelector('p').textContent = course.description;
          const assignmentsList = courseContent.querySelector('ul');
          assignmentsList.innerHTML = '';
          course.assignments.forEach(assignment => {
            const li = document.createElement('li');
            li.textContent = assignment;
            assignmentsList.appendChild(li);
          });
          showPage('courseDetails');
        }
      }
    </script>
</body>
</html>
```

Output

Welcome to the Computer Science Courses Website

Login   Sign Up   Forgot Password

Login

Username:

admin@123

Password:

••••••

Login

Dashboard

Courses

C Programming

Introduction to AI

Data Structures

Machine Learning

Html and javascript

CHAITANYA
(Deemed to be University)
(Approved u/s. 3 of UGC act. 1956 by MHRD, Govt. of India)

Course Details

Introduction to AI

Artificial intelligence (AI), in its broadest sense, is intelligence exhibited by machines, particularly computer systems. It is a field of research in computer science that develops and studies methods and software that enable machines to perceive their environment and uses learning and intelligence to take actions that maximize their chances of achieving defined goals.

Assignments

1. Implement a simple search algorithm (e.g., breadth-first search) to navigate a maze.

2. Develop a basic game playing agent (e.g., tic-tac-toe) using minimax or alpha-beta pruning.

3. Explore knowledge representation techniques (e.g., propositional logic, semantic networks) and solve simple problems.

4. Apply machine learning techniques (e.g., decision trees, k-nearest neighbors) to a small dataset.

5. Build a basic chatbot that can understand simple user queries and respond accordingly.