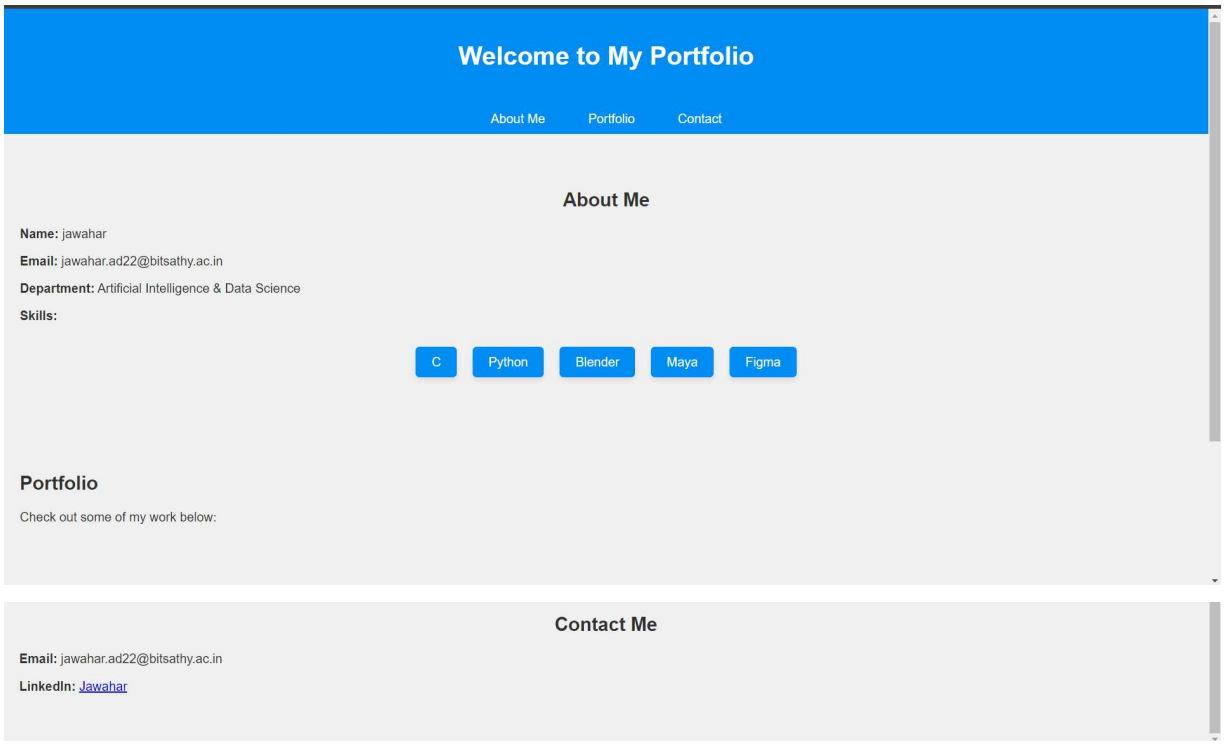
CODE:

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>JAWAHAR V</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 0;
            padding: 0;
            background-color: #f4f4f4;
            color: #333;
        }

        header {
            background-color: #0090f9;
            color: #fff;
            padding: 20px 0;
            text-align: center;
        }

        nav {
            background-color: #0090f9;
            padding: 10px 0;
            text-align: center;
        }

        nav a {
            color: #fff;
            text-decoration: none;
            padding: 10px 20px;
            border-radius: 5px;
            margin: 0 5px;
        }
        nav a:hover {
            background-color: #fff;
            color: #0090f9;
```

```
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
section {
    padding: 50px 20px;
}
.about-me {
    text-align: center;
}
.skills {
    display: flex;
    flex-wrap: wrap;
    justify-content: center;
    gap: 20px;
    margin-top: 30px;
}
.skill {
    background-color: #0090f9;
    color: #fff;
    padding: 10px 20px;
    border-radius: 5px;
    text-align: center;
    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
    transition: all 0.3s ease;
}
.skill:hover {
    background-color: #fff;
    color: #0090f9;
    box-shadow: 0 4px 15px rgba(0, 0, 0, 0.2);
}
.contact-info {
    text-align: center;
    margin-top: 30px;
}
footer {
    background-color: #0090f9;
    color: #fff;
    text-align: center;
    padding: 10px 0;
    position: fixed;
    bottom: 0;
```

```
            width: 100%;
        }
    </style>
</head>
<body>
    <header>
        <h1>Welcome to My Portfolio</h1>
    </header>
    <nav>
        <a href="#about">About Me</a>
        <a href="#portfolio">Portfolio</a>
        <a href="#contact">Contact</a>
    </nav>
    <section id="about">
        <h2 class="about-me">About Me</h2>
        <p><strong>Name:</strong> jawahar</p>
        <p><strong>Email:</strong> jawahar.ad22@bitsathy.ac.in</p>
        <p><strong>Department:</strong> Artificial Intelligence & Data Science</p>
        <p><strong>Skills:</strong></p>
        <div class="skills">
            <div class="skill">C</div>
            <div class="skill">Python</div>
            <div class="skill">Blender</div>
            <div class="skill">Maya</div>
            <div class="skill">Figma</div>
        </div>
    </section>

    <section id="portfolio">
        <h2 class="portfolio">Portfolio</h2>
        <p class="portfolio-desc">Check out some of my work below:</p>
    </section>
    <section id="contact">
        <h2 class="contact-info">Contact Me</h2>
        <p><strong>Email:</strong> jawahar.ad22@bitsathy.ac.in</p>
        <p><strong>LinkedIn:</strong> <a href="#">Jawahar</a></p>
    </section>
</body>
</html>
```

OUTPUT:


Welcome to My Portfolio
About Me
Portfolio
Contact
About Me
Name: jawahar
Email: jawahar.ad22@bitsathy.ac.in
Department: Artificial Intelligence & Data Science
Skills:
C
Python
Blender
Maya
Figma
Portfolio
Check out some of my work below:

Contact Me
Email: jawahar.ad22@bitsathy.ac.in
LinkedIn: Jawahar

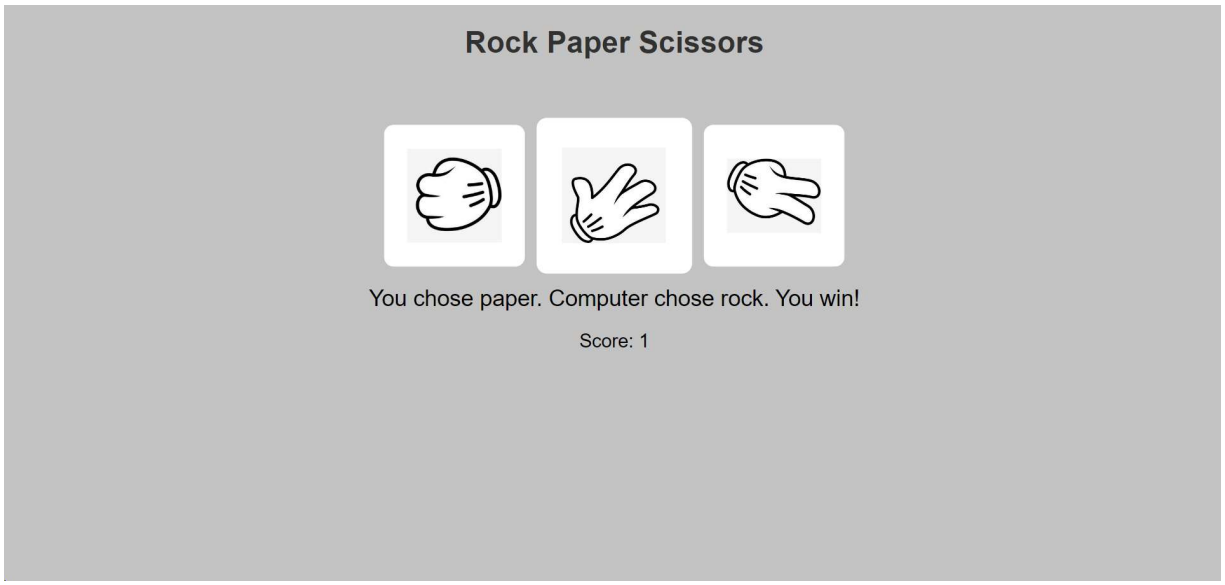
CODE:

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Rock Paper Scissors</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            text-align: center;
            background-color: #c3c3c3;
        }

        h1 {
            color: #333;
        }

        #game-container {
            display: flex;
            justify-content: center;
            align-items: center;
            flex-direction: column;
            margin-top: 50px;
        }

        #options-container {
            display: flex;
            justify-content: center;
            align-items: center;
            gap: 20px;
            margin-top: 20px;
        }

        .option {
            cursor: pointer;
            transition: transform 0.2s ease;
            width: 150px;
```

```
            height: 150px;
            background-color: white;
            border-radius: 10px;
            display: flex;
            align-items: center;
            justify-content: center;
        }

        .option:hover {
            transform: scale(1.1);
        }

        #result {
            font-size: 24px;
            margin-top: 20px;
        }

        #score {
            font-size: 20px;
            margin-top: 20px;
        }
    </style>
</head>

<body>
    <h1>Rock Paper Scissors</h1>
    <div id="game-container">
        <div id="options-container">
            <div class="option" id="rock"><img src="rock.png" alt="Rock" width="100"></div>
            <div class="option" id="paper"><img src="paper.png" alt="Paper" width="100"></div>
            <div class="option" id="scissors"><img src="scissors.jpg" alt="Scissors"
width="100"></div>
        </div>
        <div id="result"></div>
        <div id="score">Score: 0</div>
    </div>

    <script>
        const options = ['rock', 'paper', 'scissors'];
        let score = 0;
```

```
        document.querySelectorAll('.option').forEach(option => {
            option.addEventListener('click', () => {
                const playerChoice = option.id;
                const computerChoice = options[Math.floor(Math.random() * 3)];

                const result = getResult(playerChoice, computerChoice);
                updateScore(result);

                document.getElementById('result').textContent = `You chose ${playerChoice}.
Computer chose ${computerChoice}. ${result}`;

                setTimeout(() => {
                    document.getElementById('result').textContent = '';
                }, 2000);
            });
        });
        function getResult(player, computer) {
            if (player === computer) {
                return "It's a tie!";
            } else if (
                (player === 'rock' && computer === 'scissors') ||
                (player === 'paper' && computer === 'rock') ||
                (player === 'scissors' && computer === 'paper')
            ) {
                return 'You win!';
            } else {
                return 'You lose!';
            }
        }
        function updateScore(result) {
            if (result === 'You win!') {
                score++;
            }
            document.getElementById('score').textContent = `Score: ${score}`;
        }
    </script>
</body>

</html>
```

OUTPUT:


Rock Paper Scissors
You chose paper. Computer chose rock. You win!
Score: 1

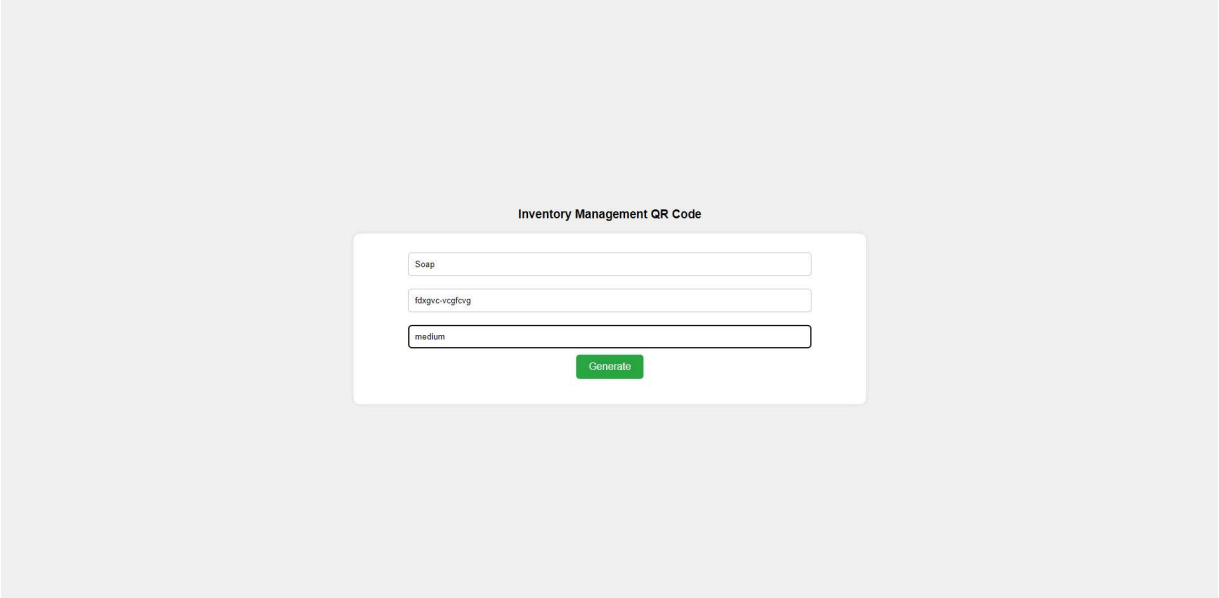
CODE:

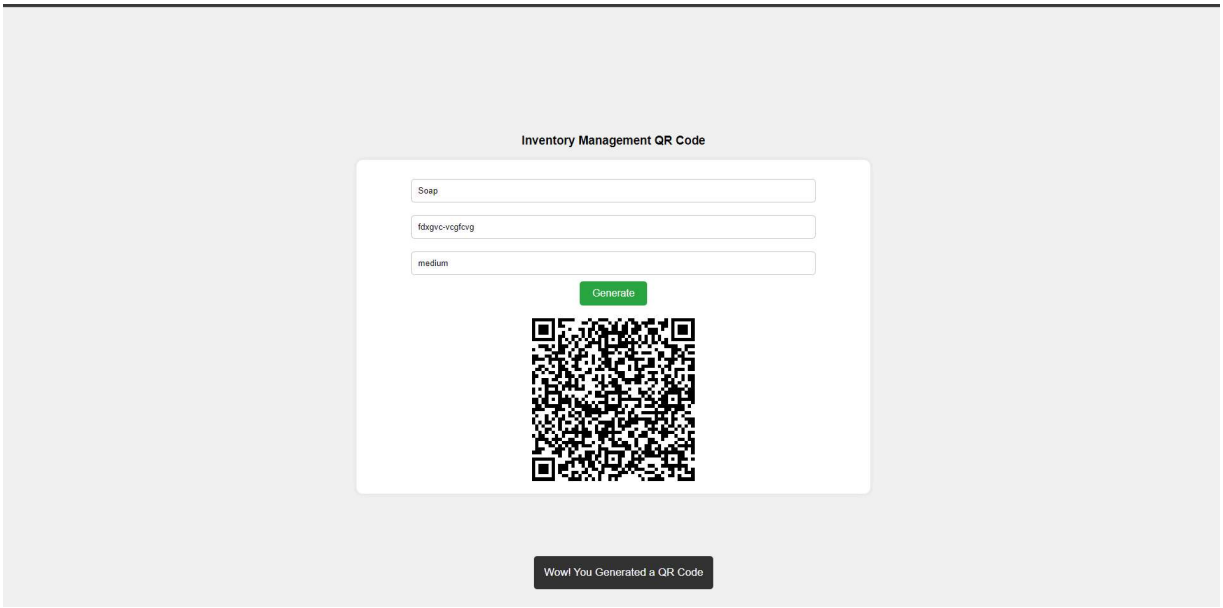
```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Rock Paper Scissors</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            text-align: center;
            background-color: #c3c3c3;
        }

        h1 {
            color: #333;
        }

        #game-container {
            display: flex;
            justify-content: center;
            align-items: center;
            flex-direction: column;
            margin-top: 50px;
        }

        #options-container {
            display: flex;
            justify-content: center;
            align-items: center;
            gap: 20px;
            margin-top: 20px;
        }

        .option {
            cursor: pointer;
            transition: transform 0.2s ease;
            width: 150px;
            height: 150px;
```

```
            background-color: white;
            border-radius: 10px;
            display: flex;
            align-items: center;
            justify-content: center;
        }

        .option:hover {
            transform: scale(1.1);
        }

        #result {
            font-size: 24px;
            margin-top: 20px;
        }

        #score {
            font-size: 20px;
            margin-top: 20px;
        }
    </style>
</head>

<body>
    <h1>Rock Paper Scissors</h1>
    <div id="game-container">
        <div id="options-container">
            <div class="option" id="rock"><img src="rock.png" alt="Rock" width="100"></div>
            <div class="option" id="paper"><img src="paper.png" alt="Paper" width="100"></div>
            <div class="option" id="scissors"><img src="scissors.jpg" alt="Scissors"
width="100"></div>
        </div>
        <div id="result"></div>
        <div id="score">Score: 0</div>
    </div>

    <script>
        const options = ['rock', 'paper', 'scissors'];
        let score = 0;
```

```
    document.querySelectorAll('.option').forEach(option => {
      option.addEventListener('click', () => {
        const playerChoice = option.id;
        const computerChoice = options[Math.floor(Math.random() * 3)];

        const result = getResult(playerChoice, computerChoice);
        updateScore(result);

        document.getElementById('result').textContent = `You chose ${playerChoice}.
Computer chose ${computerChoice}. ${result}`;

        setTimeout(() => {
          document.getElementById('result').textContent = '';
        }, 2000);
      });
    });

    function getResult(player, computer) {
      if (player === computer) {
        return "It's a tie!";
      } else if (
        (player === 'rock' && computer === 'scissors') ||
        (player === 'paper' && computer === 'rock') ||
        (player === 'scissors' && computer === 'paper')
      ) {
        return 'You win!';
      } else {
        return 'You lose!';
      }
    }
    function updateScore(result) {
      if (result === 'You win!') {
        score++;
      }
      document.getElementById('score').textContent = `Score: ${score}`;
    }
  </script>
</body>

</html>
```

OUTPUT:


Inventory Management QR Code
Soap
fdxgvc-vcgfcvg
medium
Generate


Inventory Management QR Code
Soap
fdxgvc-vcgfcvg
medium
Generate
Wow! You Generated a QR Code

FRONT END:

Login.html

```
<!DOCTYPE html>
<html lang="en">

<head>

    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Online Banking System</title>
    <link rel="stylesheet" href="{{ url_for('static', filename='styles.css') }}">
    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #f0f2f5;
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            margin: 0;
        }

        .login-container {
            background: #fff;
            padding: 20px;
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
            width: 300px;
            text-align: center;
        }

        .login-container h2 {
            margin-bottom: 20px;
        }


        .login-container input {
            width: calc(100% - 20px);
            padding: 10px;
```

```
            margin: 10px 0;
            border: 1px solid #ccc;
            border-radius: 5px;
        }


        .login-container button {
            width: 100%;
            padding: 10px;
            background-color: #28a745;
            color: #fff;
            border: none;
            border-radius: 5px;
            cursor: pointer;
            font-size: 16px;
        }

        .login-container button:hover {
            background-color: #218838;
        }
    </style>
</head>


<body>
    <div class="login-container">
        <h2>AXIS BANK</h2>
        <h3>Login</h3>
        <form action="{{ url_for('login') }}" method="POST">
            <input type="text" name="username" placeholder="Username" required>
            <input type="password" name="password" placeholder="Password" required>
            <button type="submit">Login</button>
        </form>

    </div>

</body>

</html>
```

Dashboard.html

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>DAV Bank - Dashboard</title>
    <link rel="stylesheet" href="{{ url_for('static', filename='styles.css') }}">
    <style>
        body {
            font-family: Arial, sans-serif;
            background-color: #f0f2f5;
            margin: 0;
        }

        .container {
            max-width: 800px;
            margin: 50px auto;
            padding: 20px;
            background: #fff;
            border-radius: 10px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }

        header {
            text-align: center;
            margin-bottom: 20px;
        }

        .title {
            margin: 0;
            color: #333;
        }

        .dashboard-container {
            text-align: center;
        }

        .dashboard-container h2 {
```

```
    margin-bottom: 20px;
}

.dashboard-container p {
    font-size: 18px;
    margin-bottom: 20px;
}

.form-group {
    margin-bottom: 20px;
}
.form-group input {
    width: calc(100% - 20px);
    padding: 10px;
    border: 1px solid #ccc;
    border-radius: 5px;
}
.dashboard-container button {
    width: 100%;
    padding: 10px;
    background-color: #28a745;
    color: #fff;
    border: none;
    border-radius: 5px;
    cursor: pointer;
    font-size: 16px;
    margin-top: 10px;
}
.dashboard-container button:hover {
    background-color: #228d3b;
}
.dashboard-container a {
    display: inline-block;
    margin-top: 20px;
    color: #28a745;
    text-decoration: none;
}

.dashboard-container a:hover {
    text-decoration: underline;
```

```
        }

        ul {
            list-style-type: none;
            padding: 0;
        }

        ul li {
            background: #f4f4f4;
            margin: 5px 0;
            padding: 10px;
            border-radius: 5px;
            text-align: left;
        }
    </style>
</head>
<body>
    <div class="container">
        <header>
            <h1 class="title">AXIS Bank</h1>
        </header>
        <main>
            <div class="dashboard-container">
                <h2>Welcome, Jawahar</h2>
                <p>Balance: Rs 30000</p>
                <form action="{{ url_for('withdraw') }}" method="POST">
                    <div class="form-group">
                        <input type="number" name="amount" placeholder="Enter amount to withdraw"
required>
                    </div>
                    <button type="submit">Withdraw</button>
                </form>
                <br>
                <form action="{{ url_for('deposit') }}" method="POST">
                    <div class="form-group">
                        <input type="number" name="amount" placeholder="Enter amount to deposit"
required>
                    </div>
                    <button type="submit">Deposit</button>
                </form>
```

```
            <a href="{{ url_for('logout') }}">Logout</a>
            <h3>Transaction History</h3>
            <!-- <ul>
                {% for transaction in transactions[username] %}
                <li>{{ transaction }}</li>
                {% endfor %}
            </ul> -->
        </div>
    </main>
  </div>
</body>
</html>
```

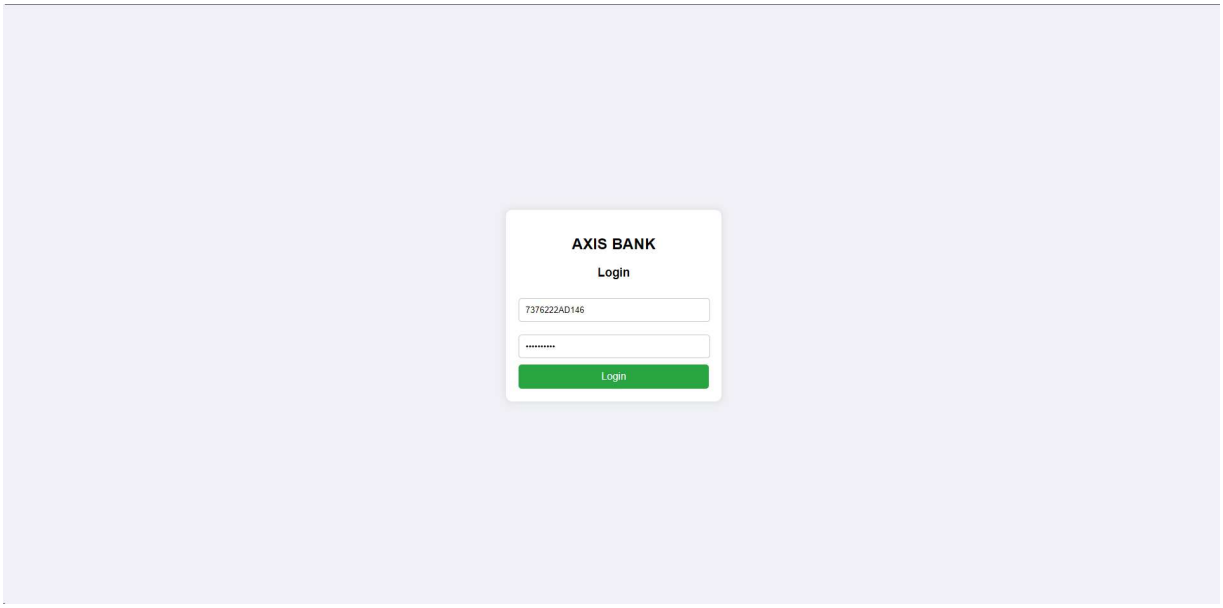
BACKEND:

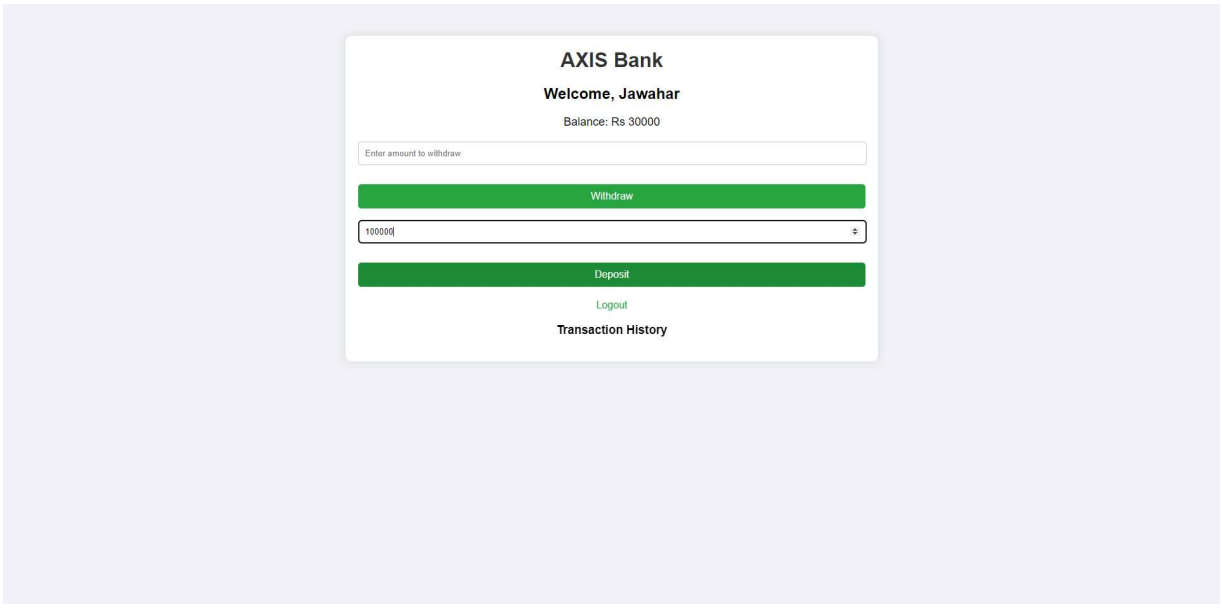
```
from flask import Flask, render_template, request, redirect, url_for, session
import os
import secrets

print("Flask application is running")
app = Flask(__name__)
app.secret_key = secrets.token_hex(16)

# Simulated user data
users = {
  "dav": {"password": "dav123", "balance": 1000},
  "user2": {"password": "password2", "balance": 500},
}

transactions = {
  "dav": [],
  "user2": [],
}

@app.route('/')
def index():
  print("Rendering index page")
  if 'username' in session:
    print(f"User {session['username']} is already logged in, redirecting to dashboard")
    return redirect(url_for('dashboard'))
  return render_template('index.html')
```

```
@app.route('/login', methods=['POST'])
def login():
    print("Login request received")
    username = request.form['username']
    password = request.form['password']
    user = users.get(username)
    if user and user['password'] == password:
        print(f"User {username} logged in successfully")
        session['username'] = username
        return redirect(url_for('dashboard'))
    print("Login failed")
    return redirect(url_for('index'))

@app.route('/dashboard')
def dashboard():
    print("Rendering dashboard page")
    if 'username' not in session:
        print("User is not logged in, redirecting to index")
        return redirect(url_for('index'))
    user = users.get(session['username'])
    if not user:
        print("User not found in database, redirecting to index")
        return redirect(url_for('index'))
    print(f"User {session['username']} has balance {user['balance']}")
    return render_template('dashboard.html', username=session['username'],
                           balance=user['balance'], transactions=transactions)

@app.route('/withdraw', methods=['POST'])
def withdraw():
    print("Withdraw request received")
    if 'username' not in session:
        print("User is not logged in, redirecting to index")
        return redirect(url_for('index'))
    amount = float(request.form['amount'])
    user = users.get(session['username'])
    if not user:
        print("User not found in database, redirecting to index")
        return redirect(url_for('index'))
    if amount <= 0 or user['balance'] < amount:
```

```
        print(f"Invalid withdrawal amount {amount} for user {session['username']}")
        return redirect(url_for('dashboard'))
    user['balance'] -= amount
    transactions[session['username']].append(f"Withdrawn {amount}, new balance:
{user['balance']}")
    print(f"Withdrawn {amount} from user {session['username']}, new balance:
{user['balance']}")
    return redirect(url_for('dashboard'))

@app.route('/deposit', methods=['POST'])
def deposit():
    print("Deposit request received")
    if 'username' not in session:
        print("User is not logged in, redirecting to index")
        return redirect(url_for('index'))
    amount = float(request.form['amount'])
    user = users.get(session['username'])
    if not user:
        print("User not found in database, redirecting to index")
        return redirect(url_for('index'))
    if amount <= 0:
        print(f"Invalid deposit amount {amount} for user {session['username']}")
        return redirect(url_for('dashboard'))
    user['balance'] += amount
    transactions[session['username']].append(f"Deposited {amount}, new balance:
{user['balance']}")
    print(f"Deposited {amount} for user {session['username']}, new balance: {user['balance']}")
    return redirect(url_for('dashboard'))

@app.route('/logout')
def logout():
    print("Logout request received")
    username = session.pop('username', None)
    if username:
        print(f"User {username} logged out")
    else:
        print("No user was logged in")
    return redirect(url_for('index'))
if __name__ == '__main__':
    app.run(debug=False, host='0.0.0.0', port=5000)
```

OUTPUT:


AXIS BANK
Login
7376222AD146
Login


AXIS Bank
Welcome, Jawahar
Balance: Rs 30000
Enter amount to withdraw
Withdraw
100000
Deposit
Logout
Transaction History

BACKEND:

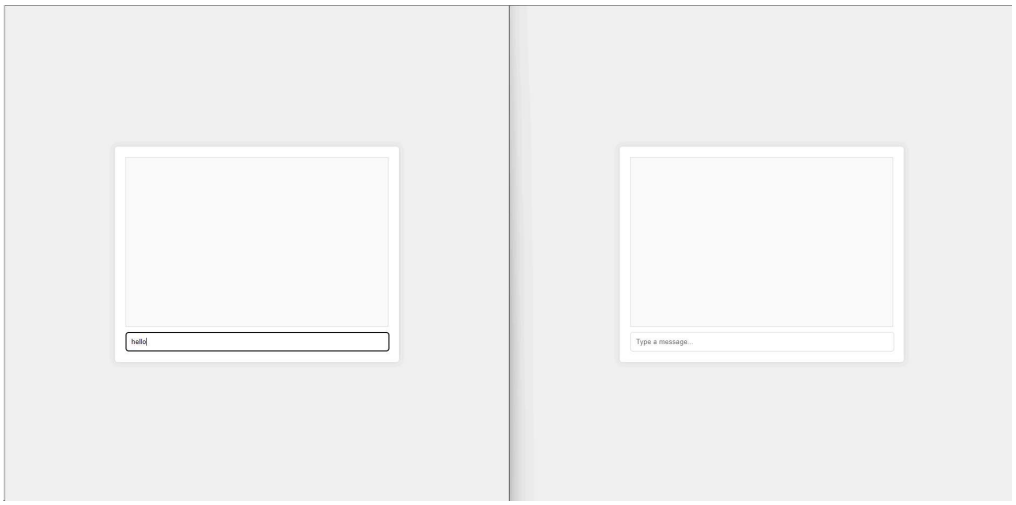
```
const express = require('express');
const http = require('http');
const socketIo = require('socket.io');
const path = require('path');

const app = express();
const server = http.createServer(app);
const io = socketIo(server);

// Serve static files from the frontend directory
app.use(express.static(path.join(__dirname, '../frontend')));

// Serve the index.html file at the root path
app.get('/', (req, res) => {
  res.sendFile(path.join(__dirname, '../frontend/index.html'));
});

io.on('connection', (socket) => {
  console.log('New user connected');

  socket.on('message', (msg) => {
    io.emit('message', msg);
  });

  socket.on('disconnect', () => {
    console.log('User disconnected');
  });
});

const PORT = process.env.PORT || 3000;
server.listen(PORT, () => console.log(`Server running on port ${PORT}`));
```

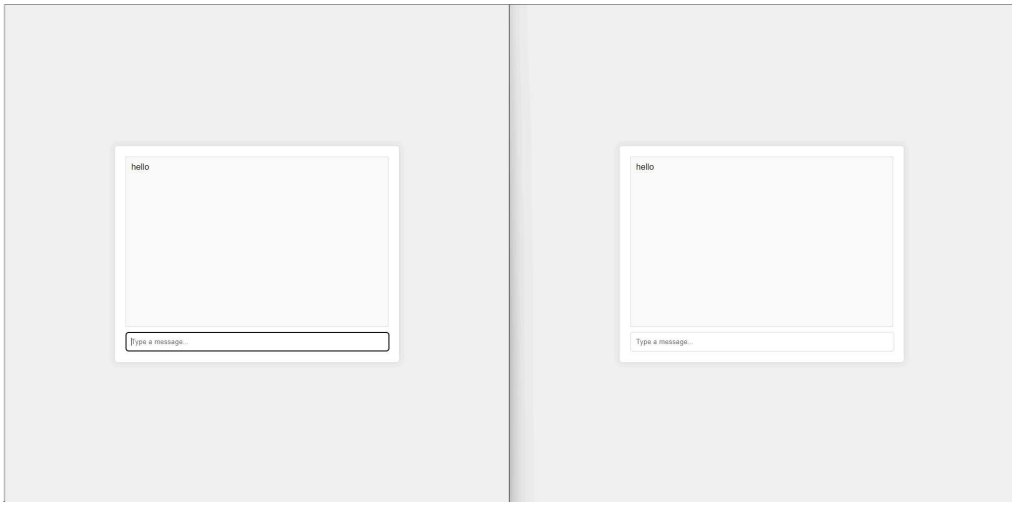
FRONTEND:

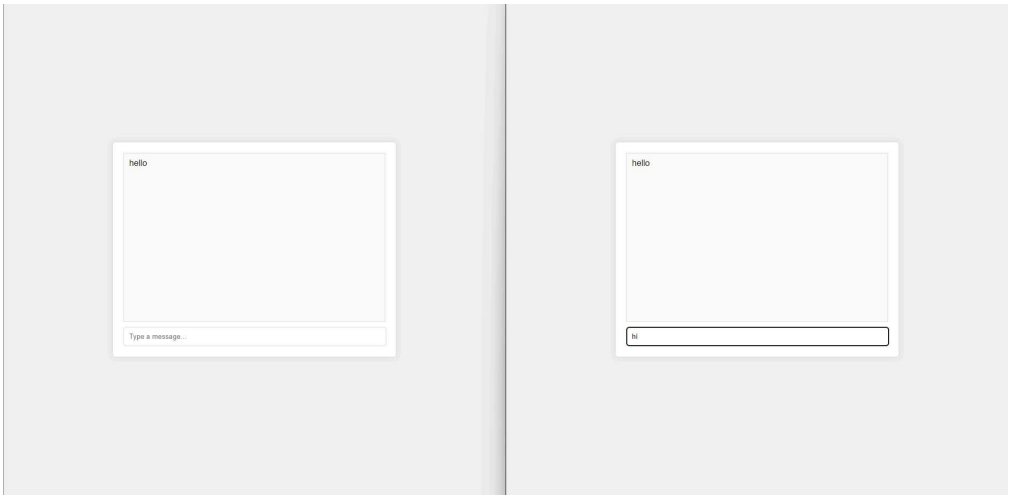
```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Chat Application</title>
</head>

<body>
    <div id="chat-container">
        <div id="chat-box"></div>
        <input id="chat-input" type="text" placeholder="Type a message...">
    </div>
    <script src="/socket.io/socket.io.js"></script>
</body>
<style>
    body {
  font-family: Arial, sans-serif;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  background-color: #f0f0f0;
  margin: 0;
}

#chat-container {
  width: 500px;
  max-width: 100%;
  background: #fff;
  padding: 20px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
  border-radius: 5px;
}

#chat-box {
  height: 300px;
  overflow-y: auto;
```

```
  margin-bottom: 10px;
  border: 1px solid #ddd;
  padding: 10px;
  background: #fafafa;
}

#chat-input {
  width: calc(100% - 20px);
  padding: 10px;
  border: 1px solid #ddd;
  border-radius: 5px;
}

</style>
<script>
    const socket = io.connect();

        const chatBox = document.getElementById('chat-box');
        const chatInput = document.getElementById('chat-input');

        chatInput.addEventListener('keypress', function (event) {
            if (event.key === 'Enter') {
                const message = chatInput.value;
                socket.send(message);
                chatInput.value = '';
            }
        });

        socket.on('message', function (msg) {
            const messageElement = document.createElement('div');
            messageElement.textContent = msg;
            chatBox.appendChild(messageElement);
        });


</script>
</html>
```

OUTPUT:


hello
Type a message...


hello
Type a message...
hello
Type a message...


hello
Type a message...
hello
hi