FULL STACK -1

AIM: Create a student registration form with HTML5 validation for name, email, and age inputs. Medium: Build a responsive banking UI with deposit/withdrawal buttons and balance display. Hard: Develop an admin dashboard with CSS Grid layout and dynamic theme switching.

1.Experiment-1

```
<!DOCTYPE html>
<html lang="en">
<head>
      <meta charset="UTF-8" />
     <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0"/>
      <title>Student Registration Form</title>
</head>
<body>
      <h2>Student Registration</h2>
     <form>
           <a href="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="class="
           <input type="text" id="name" name="name" required pattern="[A-
Za-z ]+" /><br><br>
           <a href="mail">Email:</a>
           <input type="email" id="email" name="email" required /><br>
           <a href="label"><a href="label"><a href="label">Age:</a></a>/label>
           <input type="number" id="age" name="age" required min="5"
max="100" /><br><br>
           <button type="submit">Register</button>
     </form>
</body>
</html>
```

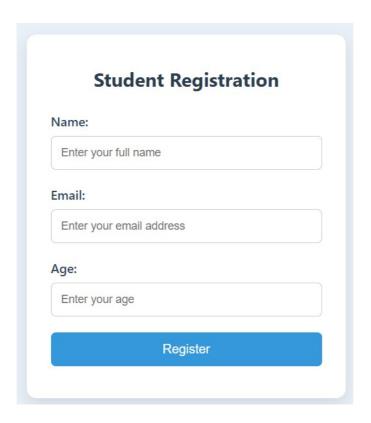


Figure 1: Experiment 1 Student registration Output

2.Experiment 2

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8"/>
 <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0"/>
 <title>Banking UI</title>
 k href="https://fonts.googleapis.com/css2?
family=Poppins&display=swap" rel="stylesheet">
 <style>
  body {
   font-family: 'Poppins', sans-serif;
   background: #e6f0ff;
   margin: 0;
   display: flex;
   justify-content: center;
   align-items: center;
   height: 100vh;
```

```
.bank-container {
  background: white;
  padding: 30px;
  border-radius: 12px;
  box-shadow: 0 4px 20px rgba(0, 0, 0, 0.1);
  text-align: center;
  max-width: 400px;
  width: 100%;
 }
 h2 {
  margin-bottom: 20px;
 .balance {
  font-size: 2.5rem;
  font-weight: bold;
  color: #333;
  margin-bottom: 30px;
 }
 .actions button {
  padding: 12px 20px;
  font-size: 1rem;
  margin: 5px;
  border: none;
  border-radius: 8px;
  cursor: pointer;
  transition: 0.2s ease;
 }
 .actions button:nth-child(1) {
  background: #28a745;
  color: white;
 }
 .actions button:nth-child(2) {
  background: #dc3545;
  color: white;
.actions button:hover {
```

```
opacity: 0.9;
  }
 </style>
</head>
<body>
 <div class="bank-container">
  <h2>My Bank Account</h2>
  <div class="balance">$<span id="balance">1000</span>
div>
  <div class="actions">
   <button onclick="deposit()">Deposit $100</button>
   <button onclick="withdraw()">Withdraw $100
  </div>
 </div>
 <script>
  let balance = 1000;
  const balanceDisplay =
document.getElementById("balance");
  function deposit() {
   balance += 100;
   balanceDisplay.textContent = balance;
  }
  function withdraw() {
   if (balance \geq 100) {
    balance -= 100;
    balanceDisplay.textContent = balance;
   } else {
    alert("Insufficient funds!");
 </script>
</body>
</html>
```

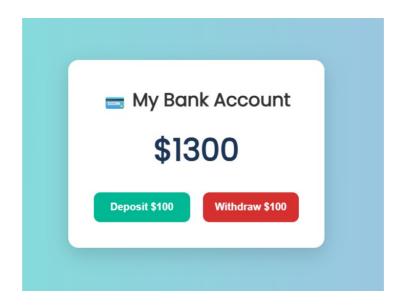


Figure 2: Experiment 2 Banking UI output

3.Experiment 3

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8"/>
 <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0"/>
 <title>Admin Dashboard</title>
 k href="https://fonts.googleapis.com/css2?
family=Inter:wght@400;600&display=swap" rel="stylesheet">
 <style>
  :root {
   --bg: #f9f9f9;
   --text: #222;
   --card: #fff;
   --primary: #007bff;
  }
  [data-theme="dark"] {
   --bg: #121212;
   --text: #f0f0f0;
   --card: #1e1e1e;
   --primary: #4e9eff;
```

```
}
body {
 margin: 0;
 background-color: var(--bg);
 color: var(--text);
 font-family: 'Inter', sans-serif;
}
header {
 background-color: var(--primary);
 color: white;
 padding: 1em 2em;
 display: flex;
 justify-content: space-between;
 align-items: center;
.dashboard {
 display: grid;
 grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));
 gap: 20px;
 padding: 2em;
}
.card {
 background: var(--card);
 padding: 20px;
 border-radius: 12px;
 box-shadow: 0 4px 12px rgba(0,0,0,0.1);
 transition: background 0.3s;
}
.card h3 {
 margin: 0 0 10px;
}
.toggle-theme {
 background: transparent;
 border: 2px solid white;
 color: white:
```

```
padding: 6px 12px;
   border-radius: 8px;
   cursor: pointer;
   font-weight: 600;
  .toggle-theme:hover {
   background: rgba(255, 255, 255, 0.2);
 </style>
</head>
<body data-theme="light">
 <header>
  <h1>Admin Dashboard</h1>
  <button class="toggle-theme" onclick="toggleTheme()">Toggle
Theme</button>
 </header>
 <main class="dashboard">
  <div class="card">
   <h3>Users</h3>
   1,245 active
  </div>
  <div class="card">
   <h3>Revenue</h3>
   $94,300
  </div>
  <div class="card">
   <h3>Tasks</h3>
   23 pending
  </div>
  <div class="card">
   <h3>Feedback</h3>
   87 new messages
  </div>
 </main>
 <script>
  function toggleTheme() {
   const current = document.body.getAttribute('data-theme');
   document.body.setAttribute('data-theme', current === 'dark' ?
```

```
'light' : 'dark');
}
</script>
</body>
</html>
```

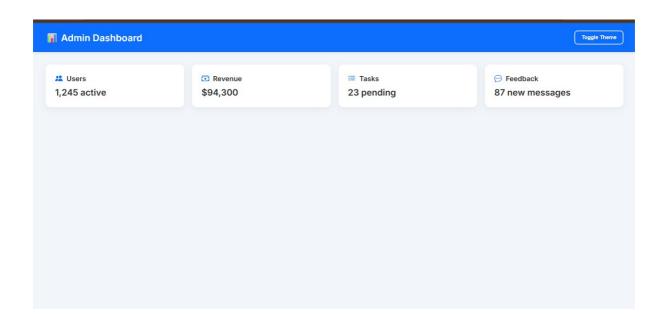


Figure 3: Experiment 3 Admin Dashboard Output