#### EXP-1

# <u>Create a student registration form with HTML5 validation for name, email, and age inputs:</u>

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8"/>
 <title>Student Registration Form</title>
 <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
 <style>
  body { font-family: sans-serif; background: #f4f4fa; }
  form { max-width: 350px; margin: 2rem auto; background: #fff; padding: 1.5rem; border-
radius: 8px; box-shadow: 0 2px 8px #0001; }
  label, input { display: block; width: 100%; margin-bottom: 12px; }
  input[type="submit"] { background: #3560f6; color: #fff; border: none; border-radius:
4px; padding: 10px; cursor: pointer; }
  input[type="submit"]:hover { background: #233bb2; }
 </style>
</head>
<body>
 <form>
  <h2>Student Registration</h2>
  <label>Name
   <input type="text" name="name" required pattern="[A-Za-z]{3,}" title="Enter at least 3
alphabetic characters"/>
  </label>
  <label>Email
   <input type="email" name="email" required />
  </label>
  <label>Age
   <input type="number" name="age" required min="16" max="120" />
  </label>
  <input type="submit" value="Register"/>
 </form</body></html>
```

#### EXP-2

# Build a responsive banking UI with deposit/withdrawal buttons and balance display:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
 <title>Bank UI</title>
 <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
 <style>
  body { font-family: sans-serif; background: #eaeef1; }
  .bank-container {
   max-width: 400px;
   background: #fff;
   margin: 3rem auto;
   border-radius: 10px;
   box-shadow: 0 2px 10px #0002;
   padding: 2rem;
   text-align: center;
  }
  .balance { font-size: 2rem; margin: 1rem 0; color: #3560f6; }
  .btns input[type="number"] { width: 100px; margin-right: 1rem; }
  .deposit, .withdraw {
   background: #3560f6;
   color: #fff; border: none; border-radius: 5px; padding: 8px 14px;
   margin: 0.5rem;
   cursor: pointer;
  .withdraw { background: #f66c4f; }
  @media (max-width: 520px) {
   .bank-container { padding: 1rem; }
   .btns { display: block; }
   .btns > * { margin: 0.25rem auto; }
```

```
}
 </style>
</head>
<body>
 <div class="bank-container">
  <h2>Your Account</h2>
  <div class="balance" id="balance">$0.00</div>
  <div class="btns">
   <input type="number" id="amount" placeholder="Amount" min="1"/>
   <button class="deposit" onclick="deposit()">Deposit</button>
   <button class="withdraw" onclick="withdraw()">Withdraw</button>
  </div>
  <div id="message" style="margin-top: 1rem; color: #d64f3a;"></div>
 </div>
<script>
let balance = 0;
function updateBalance() {
 document.getElementById('balance').innerText = `$${balance.toFixed(2)}`;
}
function showMsg(msg, color) {
 const msgDiv = document.getElementById('message');
 msgDiv.style.color = color;
 msgDiv.innerText = msg;
 setTimeout(()=>msgDiv.innerText=",2000);
function deposit() {
 let amt = Number(document.getElementById('amount').value);
 if(amt > 0) 
  balance += amt;
  updateBalance();
  showMsg('Deposit Successful', '#36ad6e');
 } else {
  showMsg('Enter a valid amount.', '#d64f3a');
 document.getElementById('amount').value = ";
function withdraw() {
 let amt = Number(document.getElementById('amount').value);
 if(amt > 0 && amt <= balance) {
```

```
balance -= amt;
updateBalance();
showMsg('Withdrawal Successful', '#36ad6e');
} else if(amt > balance) {
    showMsg('Insufficient funds.', '#d64f3a');
} else {
    showMsg('Enter a valid amount.', '#d64f3a');
}
document.getElementById('amount').value = ";
}
updateBalance();
</script>
</body>
</html>
```

### EXP-3

### **Admin Dashboard with CSS Grid & Dynamic Theme Switching:**

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8" />
 <title>Admin Dashboard</title>
 <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
 <style>
  :root {
   --bg: #f4f4fa;
   --sidebar: #222b45;
   --sidebar-text: #fff;
   --main: #fff;
   --accent: #3560f6;
   --text: #1c1e21;
  [data-theme="dark"] {
   --bg: #181c23;
   --sidebar: #233;
   --sidebar-text: #c8cfff;
   --main: #24273a;
   --accent: #e9b96e;
   --text: #f5f7fa;
  }
  body {
   font-family: 'Segoe UI', sans-serif;
   margin: 0; background: var(--bg); color: var(--text);
   min-height: 100vh;
   transition: background 0.3s, color 0.3s;
  }
  .dashboard {
   min-height: 100vh; display: grid;
   grid-template-areas:
     "sidebar header"
     "sidebar main":
   grid-template-columns: 220px 1fr;
   grid-template-rows: 60px 1fr;
  }
```

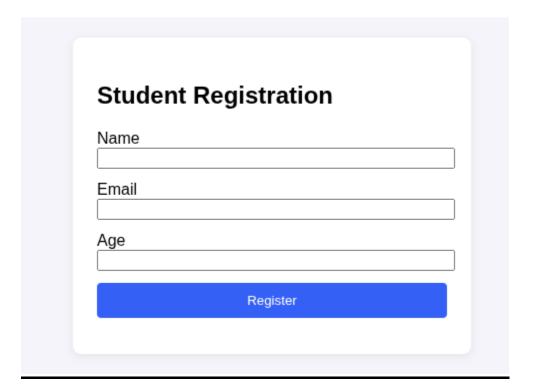
```
.sidebar {
 grid-area: sidebar;
 background: var(--sidebar);
 color: var(--sidebar-text);
 padding: 1.5rem 1rem;
 min-height: 0;
 display: flex;
 flex-direction: column;
 gap: 1.5rem;
}
.sidebar h2 { color: var(--accent); font-size: 1.4rem; }
.sidebar a {
 color: var(--sidebar-text); text-decoration: none;
 padding: 0.4rem 0.8rem; border-radius: 4px;
}
.sidebar a.active, .sidebar a:hover { background: var(--accent); color: #fff; }
.header {
 grid-area: header; background: var(--main);
 display: flex;
 align-items: center; justify-content: space-between;
 padding: 0 1.5rem; box-shadow: 0 2px 4px #0001;
}
.main {
 grid-area: main; background: var(--main);
 padding: 2rem;
.main h1 { margin-top: 0; }
.dashboard-widgets {
 display: grid; gap: 1.5rem;
 grid-template-columns: repeat(auto-fit, minmax(200px, 1fr));
 margin-top: 1.5rem;
}
.widget {
 background: var(--bg); border-radius: 10px; padding: 1.2rem;
 box-shadow: 0 2px 8px #0001;
}
.theme-toggle {
 cursor: pointer; padding: 0.5rem 1.2rem;
 border: none; border-radius: 6px;
 background: var(--accent); color: #fff; font-size: 1rem;
```

```
transition: background .3s;
   margin-left: 2rem;
  }
  @media (max-width: 800px) {
   .dashboard { grid-template-areas: "header" "main" "sidebar"; grid-template-columns:
1fr; grid-template-rows: 60px 1fr auto;}
   .sidebar { flex-direction: row; gap: 2rem; justify-content: center; }
   .main { padding: 1rem;}
  }
 </style>
</head>
<body>
<div class="dashboard" id="dashboard">
 <nav class="sidebar">
  <h2>Admin</h2>
  <a href="#" class="active">Dashboard</a>
  <a href="#">Users</a>
  <a href="#">Reports</a>
  <a href="#">Settings</a>
 </nav>
 <header class="header">
  <span>Admin Dashboard
  <button class="theme-toggle" onclick="toggleTheme()"> > / 🌼 Theme</button>
 </header>
 <main class="main">
  <h1>Welcome, Admin!</h1>
  <div class="dashboard-widgets">
   <div class="widget">
    <h3>Users</h3>
    Registered: <b>256</b>
   </div>
   <div class="widget">
    <h3>Transactions</h3>
    This Month: <b>1,245</b>
   </div>
   <div class="widget">
    <h3>Errors</h3>
    Critical: <b>2</b>
   </div>
   <div class="widget">
```

```
<h3>Revenue</h3>
     $<b>87,500</b>
   </div>
  </div>
 </main>
</div>
<script>
function toggleTheme() {
 const theme = document.body.getAttribute('data-theme');
 if(theme === 'dark') {
  document.body.removeAttribute('data-theme');
  localStorage.setItem('theme','light');
 } else {
  document.body.setAttribute('data-theme','dark');
  localStorage.setItem('theme','dark');
 }
(function(){ //Persist theme
 if(localStorage.getItem('theme') === 'dark') {
  document.body.setAttribute('data-theme','dark');
}
})();
</script>
</body>
</html>
```

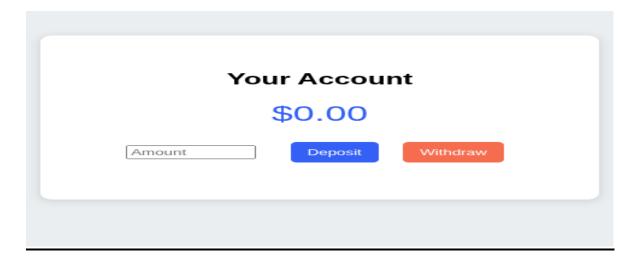
## **OUTPUTS:**

## **❖** <u>Task-1:</u>

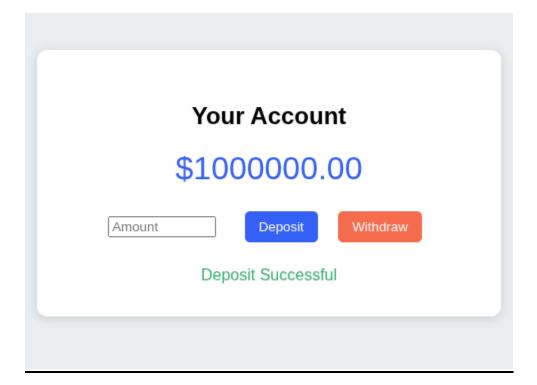


## **❖** Task-2:

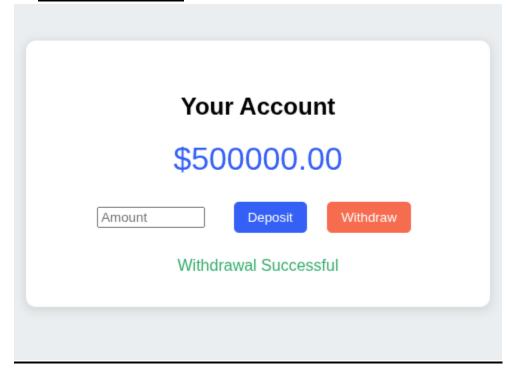
❖ Basic Interface:



### **❖** Money Deposited:

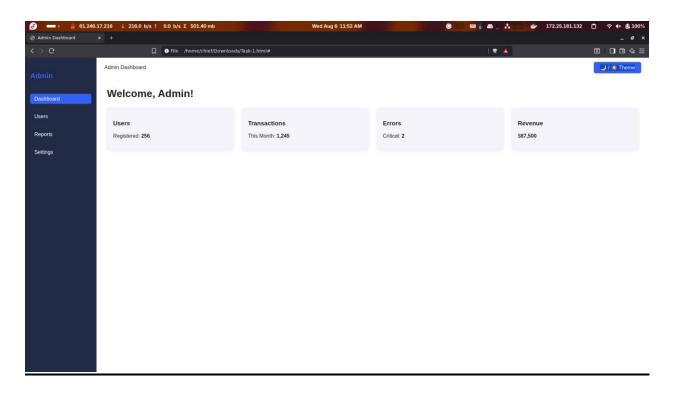


#### ❖ Money Withdrawal:



## Task-3:

**❖ Normal Dashboard in Default Mode:** 



**❖ Normal Dashboard in Dark Mode:** 

