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Batch Name: 2

DOMAIN: Mobile Application Development Domain



Task Title

Smart Expense Tracker – Web Application

Objective of the Task

The objective of this task is to design and develop a **Smart Expense Tracker web application** that allows users to:

- Register and log in securely
- Add and manage daily expenses
- View expense records clearly through a dashboard
- Improve usability with an attractive and user-friendly interface

The application focuses on **efficiency, clarity, and responsiveness** using modern web technologies.

Code Section

Technologies Used

- **HTML** – Structure of the web pages
- **CSS** – Styling and responsive design
- **JavaScript** – Logic for login, expense entry, and interaction.

HTML files:

Code: login.html

```
<!DOCTYPE html>

<html>
<head>
<title>Login</title>
<link rel="stylesheet" href="style.css">
</head>
<body class="auth-bg">

<div class="auth-card">
<h2>Login</h2>
```

```
<input id="username" placeholder="Username">
<input id="password" type="password" placeholder="Password">
<button onclick="login()">Login</button>
<p id="msg"></p>
<a href="register.html">Create new account</a>
</div>
```

```
<script src="script.js"></script>
</body>
</html>
```

Code: register.html

```
<!DOCTYPE html>
<html>
<head>
<title>Register</title>
<link rel="stylesheet" href="style.css">
</head>
<body class="auth-bg">

<div class="auth-card">
<h2>Create Account</h2>
<input id="regUser" placeholder="Username">
<input id="regPass" type="password" placeholder="Password">
<button onclick="register()">Register</button>
<p id="msg"></p>
<a href="login.html">Already have an account?</a>
</div>

<script src="script.js"></script>
</body>
```

```
</html>
```

Code: expense.html

```
<!DOCTYPE html>

<html>
  <head>
    <title>Expense Entry</title>
    <link rel="stylesheet" href="style.css">
  </head>
  <body class="app-bg">

    <header>
      <h2>Expense Entry</h2>
      <div>
        <button onclick="goDashboard()">Dashboard</button>
        <button onclick="logout()">Logout</button>
      </div>
    </header>

    <div class="container">

      <div class="card">
        <h3>Add Transaction</h3>
        <input id="title" placeholder="Title">
        <input id="amount" type="number" placeholder="Amount">
        <select id="type">
          <option value="expense">Expense</option>
          <option value="income">Income</option>
        </select>
        <input id="date" type="date">
        <button onclick="addExpense()">Save</button>
      </div>
    </div>
  </body>
</html>
```

```
<button onclick="startVoice()"> Voice Input</button>
</div>

<div class="card">
  <h3>Recent Entries</h3>
  <ul id="list"></ul>
</div>

</div>
```

```
<script src="script.js"></script>
</body>
</html>
```

Code: dashboard.html

```
<!DOCTYPE html>
<html>
<head>
  <title>Dashboard</title>
  <link rel="stylesheet" href="style.css">
  <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>
</head>
<body class="app-bg">

<header>
  <h2>Dashboard</h2>
  <button onclick="backExpense()">Back</button>
</header>

<div class="container">
```

```
<div class="card">  
  <h3>Total Balance</h3>  
  <h1>₹ <span id="balance">0</span></h1>  
</div>
```

```
<div class="card">  
  <h3>Analysis</h3>  
  <canvas id="chart"></canvas>  
</div>
```

```
</div>
```

```
<script src="script.js"></script>  
</body>  
</html>
```

CSS file:

Code: style.css

```
/* ----- GLOBAL ----- */  
* {  
  box-sizing: border-box;  
  font-family: "Segoe UI", Arial, sans-serif;  
}  
  
body {  
  margin: 0;  
  color: #374151;  
}  
  
/* ----- AUTH PAGES (LOGIN / REGISTER)-----*/
```

```
/* + NOT CHANGED */
```

```
.auth-bg {  
    min-height: 100vh;  
    display: flex;  
    justify-content: center;  
    align-items: center;  
    background: linear-gradient(135deg, #dbeafe, #e9d5ff);  
}
```

```
.auth-card {  
    background: #f1f5f9;  
    width: 400px;  
    padding: 35px;  
    border-radius: 18px;  
    box-shadow: 0 20px 40px rgba(99, 102, 241, 0.25);  
}
```

```
.auth-card h2 {  
    text-align: center;  
    margin-bottom: 20px;  
    color: #4338ca;  
}
```

```
.auth-card input {  
    width: 100%;  
    padding: 12px;  
    margin: 10px 0;  
    border-radius: 10px;  
    border: 1px solid #c7d2fe;
```

```
background: #eef2ff;
}

.auth-card button {
    width: 100%;
    margin-top: 15px;
    padding: 12px;
    border-radius: 12px;
    border: none;
    background: linear-gradient(135deg, #6366f1, #8b5cf6);
    color: #eef2ff;
    font-size: 16px;
}

/*
===== EXPENSE PAGE =====
===== APP BACKGROUND =====
===== HEADER =====

header {
```

background: linear-gradient(90deg, #fbcef8, #e0e7ff);
padding: 18px 40px;
display: flex;
justify-content: space-between;

```
    align-items: center;  
    box-shadow: 0 8px 20px rgba(0,0,0,0.08);  
}  
  
header h2 {
```

```
    color: #1e3a8a;  
    margin: 0;  
}
```

```
header button {  
    background: #bfdbfe;  
    color: #1e3a8a;  
    border: none;  
    padding: 10px 20px;  
    border-radius: 14px;  
    font-weight: 600;  
    cursor: pointer;  
    transition: all 0.25s ease;  
}
```

```
header button:hover {  
    background: #93c5fd;  
    box-shadow: 0 6px 18px rgba(30,64,175,0.35);  
    transform: translateY(-2px);  
}
```

```
/* ----- MAIN LAYOUT -----*/
```

```
.container {  
    padding: 50px;  
    display: grid;
```

```
grid-template-columns: 1.4fr 1.1fr;  
gap: 45px;  
}  
  
/* ----- CARDS (BOXES) -----*/  
  
.card {  
background: linear-gradient(135deg, #ffffff, #f1f5f9);  
padding: 42px;  
min-height: 540px;  
border-radius: 30px;  
box-shadow:  
    0 10px 25px rgba(30,64,175,0.12),  
    inset 0 0 0 1px rgba(30,64,175,0.08);  
transition: transform 0.35s ease, box-shadow 0.35s ease;  
}  
  
.card:hover {  
transform: translateY(-10px);  
box-shadow:  
    0 30px 65px rgba(30,64,175,0.22),  
    inset 0 0 0 1px rgba(30,64,175,0.15);  
}  
  
.card h3 {  
font-size: 26px;  
margin-bottom: 30px;  
color: #1e3a8a;  
}  
  
/* ----- INPUTS ----- */
```

```
.card input,  
.card select {  
    width: 100%;  
    padding: 18px;  
    margin: 14px 0;  
    border-radius: 16px;  
    font-size: 17px;  
    border: 1px solid #cbd5e1;  
    background: #f8fafc;  
    transition: all 0.25s ease;  
}  
  
}
```

```
.card input:hover,  
.card select:hover {  
    box-shadow: 0 6px 18px rgba(30,64,175,0.18);  
}  
  
}
```

```
.card input:focus,  
.card select:focus {  
    border-color: #93c5fd;  
    box-shadow: 0 0 0 4px rgba(147,197,253,0.35);  
    outline: none;  
}  
  
}
```

```
/* ----- ACTION BUTTON ROW ----- */  
.action-row {  
    display: flex;  
    gap: 18px;  
    margin-top: 28px;  
}  
  
}
```

```
/* ----- SAVE BUTTON ----- */  
  
.save-btn {  
    flex: 1;  
    padding: 20px;  
    font-size: 18px;  
    border-radius: 22px;  
    border: none;  
    background: linear-gradient(135deg, #60a5fa, #2563eb);  
    color: #f8fafc;  
    font-weight: 600;  
    cursor: pointer;  
    box-shadow: 0 14px 32px rgba(37,99,235,0.45);  
    transition: all 0.3s ease;  
}  
  
}
```

```
.save-btn:hover {  
    transform: translateY(-4px) scale(1.05);  
    box-shadow: 0 26px 55px rgba(37,99,235,0.65);  
}
```

```
/* ----- VOICE BUTTON ----- */  
  
.voice-btn {  
    width: 64px;  
    height: 64px;  
    border-radius: 50%;  
    border: none;  
    background: linear-gradient(135deg, #e0e7ff, #bfdbfe);  
    color: #1e3a8a;  
    font-size: 22px;
```

```
cursor: pointer;  
box-shadow: 0 12px 26px rgba(30,64,175,0.35);  
display: flex;  
align-items: center;  
justify-content: center;  
transition: all 0.3s ease;  
}
```

```
.voice-btn:hover {  
    transform: scale(1.18);  
    box-shadow: 0 22px 45px rgba(30,64,175,0.6);  
}
```

```
/* ----- RECENT ENTRIES LIST ----- */  
ul {  
    list-style: none;  
    padding: 0;  
}
```

```
li {  
    margin: 16px 0;  
    padding: 18px 22px;  
    font-size: 16px;  
    border-radius: 18px;  
    background: linear-gradient(135deg, #fce7f3, #e0f2fe);  
    box-shadow:  
        0 8px 20px rgba(30,64,175,0.18),  
        inset 0 0 0 1px rgba(30,64,175,0.12);  
    transition: transform 0.25s ease, box-shadow 0.25s ease;  
}
```

```
li:hover {  
    transform: translateX(6px);  
    box-shadow: 0 16px 35px rgba(30,64,175,0.3);  
}  
  
/* ----- MOBILE ----- */  
  
@media (max-width: 900px) {  
    .container {  
        grid-template-columns: 1fr;  
        padding: 30px;  
    }  
  
    .card {  
        border-radius: 16px;  
        box-shadow: 0 8px 24px rgba(0,0,0,0.08);  
        border: 1px solid rgba(0,0,0,0.05);  
    }  
  
    .entry {  
        background: #FFFFFF;  
        border-left: 4px solid #7C83FD; /* accent color */  
    }  
  
    .action-row {  
        flex-direction: column;  
    }  
  
    .voice-btn {  
        width: 100%;  
        height: 80px;  
    }  
}
```

```
border-radius: 18px;  
}  
}  
}
```

javascript file

Code: script.js

```
// USERS  
  
let users = JSON.parse(localStorage.getItem("users")) || {};  
  
// REGISTER  
  
function register() {  
    if (!regUser.value || !regPass.value) {  
        msg.innerText = "Fill all fields";  
        return;  
    }  
    users[regUser.value] = regPass.value;  
    localStorage.setItem("users", JSON.stringify(users));  
    msg.innerText = "Registered successfully";  
}  
  
// LOGIN  
  
function login() {  
    if (users[username.value] === password.value) {  
        localStorage.setItem("auth", username.value);  
        location = "expense.html";  
    } else {  
        msg.innerText = "Invalid credentials";  
    }  
}
```

```
// LOGOUT
function logout() {
    localStorage.removeItem("auth");
    location = "login.html";
}

// AUTH CHECK
if (!localStorage.getItem("auth") && !location.pathname.includes("login") &&
!location.pathname.includes("register")) {
    location = "login.html";
}

// EXPENSE DATA (USER-WISE)
let user = localStorage.getItem("auth");
let data = JSON.parse(localStorage.getItem(user)) || [];

// ADD EXPENSE
function addExpense() {
    data.push({
        title: title.value,
        amount: +amount.value,
        type: type.value,
        date: date.value
    });
    localStorage.setItem(user, JSON.stringify(data));
    renderList();
}

// RENDER LIST
function renderList() {
    if (!list) return;
```

```
list.innerHTML = "";
data.slice(-6).reverse().forEach(e => {
  list.innerHTML += `<li>${e.date} | ${e.title} ₹${e.amount}</li>`;
});
}

renderList();
```

```
// NAVIGATION

function goDashboard() { location = "dashboard.html"; }
function backExpense() { location = "expense.html"; }
```

```
// DASHBOARD

if(location.pathname.includes("dashboard")) {
  let bal = 0, inc = 0, exp = 0;
  data.forEach(e => {
    if (e.type === "income") { bal += e.amount; inc += e.amount; }
    else { bal -= e.amount; exp += e.amount; }
  });
  balance.innerText = bal;
  new Chart(chart, {
    type: "pie",
    data: {
      labels: ["Income", "Expense"],
      datasets: [{ data: [inc, exp] }]
    }
  });
}
```

```
// VOICE INPUT

function startVoice() {
```

```
let r = new webkitSpeechRecognition();

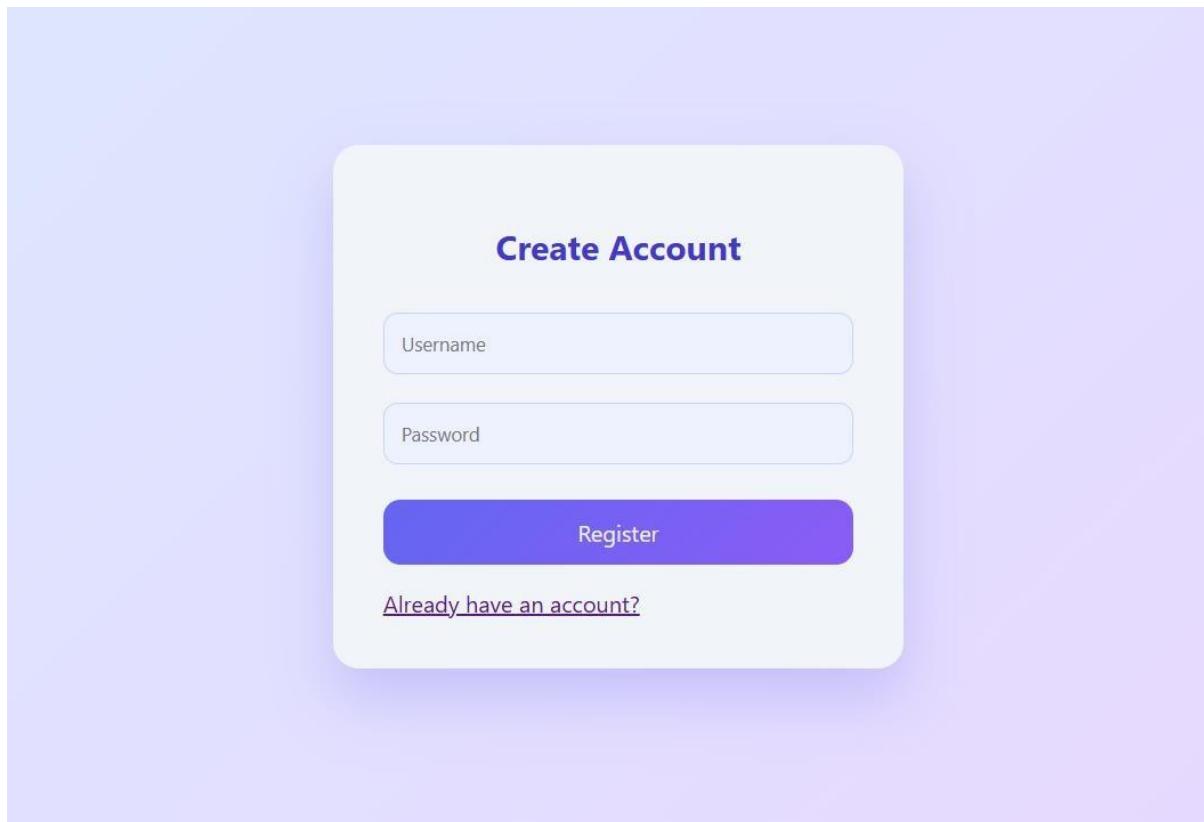
r.onresult = e => title.value = e.results[0][0].transcript;

r.start();

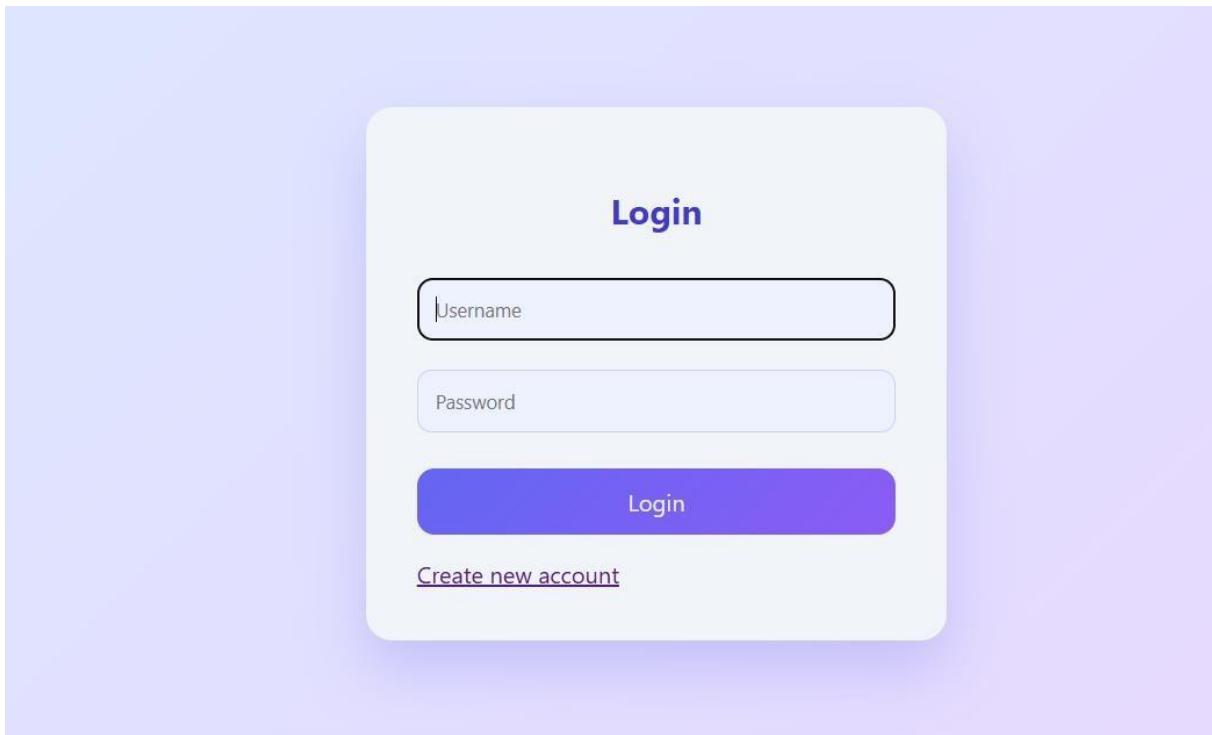
}
```

Output / Results

- **Login Page:** User authentication interface
- **Register Page:** New user account creation
- **Expense Dashboard:**
 - Expense input boxes
 - Save button with hover effect
 - Voice input option
- **Recent Expense List:** Displays added expenses clearly



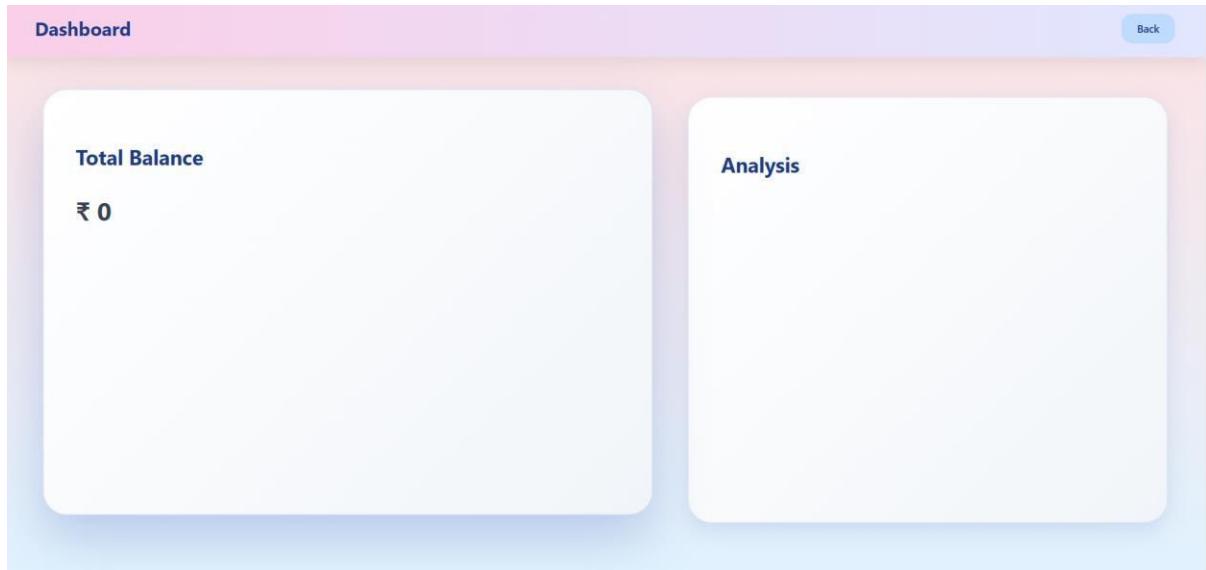
After Registration:



After Login:

A screenshot of the application's expense entry screen. The top navigation bar has a pink gradient background and contains the text "Expense Entry" on the left and "Dashboard" and "Logout" on the right. The main content area is divided into two sections. On the left, there is a form titled "Add Transaction" with fields for "Title", "Amount", "Expense" (a dropdown menu), and a date input field "dd-mm-yyyy" with a calendar icon. At the bottom of this section are "Save" and "Voice Input" buttons. On the right, there is a section titled "Recent Entries" showing a list of transactions: "₹ 0" (date unknown), "2025-12-20 | bhunu ₹20", "2025-12-29 | bhunu ₹20", "₹ 0", and "₹ 0".

Dashboard:



Explanation:

What I Did

- Designed login, register, and expense pages
- Implemented expense input and dashboard navigation
- Styled the application using modern CSS techniques

Why I Did It

- To make expense management easy and organized
- To create a clean and attractive user interface
- To improve user experience and efficiency

How It Works

- User logs in or registers
- User adds expenses through input forms
- Expenses are displayed on the dashboard

What I Learned

- HTML form handling and structure
- CSS styling using gradients, shadows, and hover effects
- Responsive web design principles
- JavaScript basics for user interaction
- Importance of clean UI/UX in web applications

Conclusion

In this project, a **Smart Expense Tracker web application** was successfully developed using HTML, CSS, and JavaScript.

The application provides a user-friendly interface for managing daily expenses efficiently.

Future Scope

- Adding database support
- Expense analytics using charts
- Monthly expense summary
- Dark mode feature

