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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>
```

```
<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 ----- */
```

```
.app-bg {
min-height: 100vh;
background: linear-gradient(180deg, #fde2e4, #e0f2fe);
}
```

```
/* ----- HEADER ----- */
```

```
header {
background: linear-gradient(90deg, #fbcfe8, #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: 1 fr;  
    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] }]
    }
  });
}
```

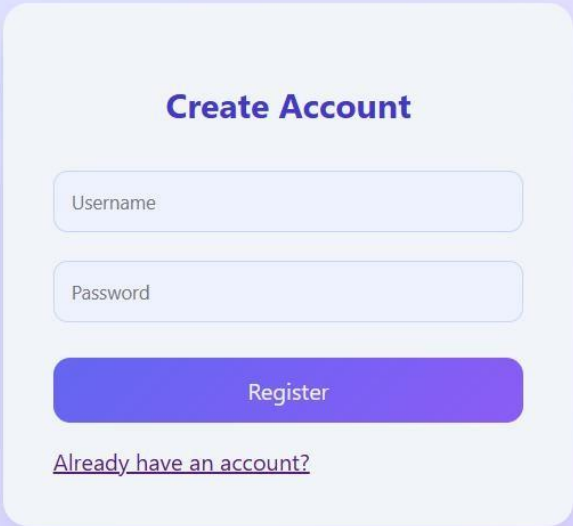
```
// VOICE INPUT
```

```
function startVoice() {
```

```
let r = new webkitSpeechRecognition();  
r.onresult = e => title.value = e.results[0][0].transcript;  
r.start();  
}
```

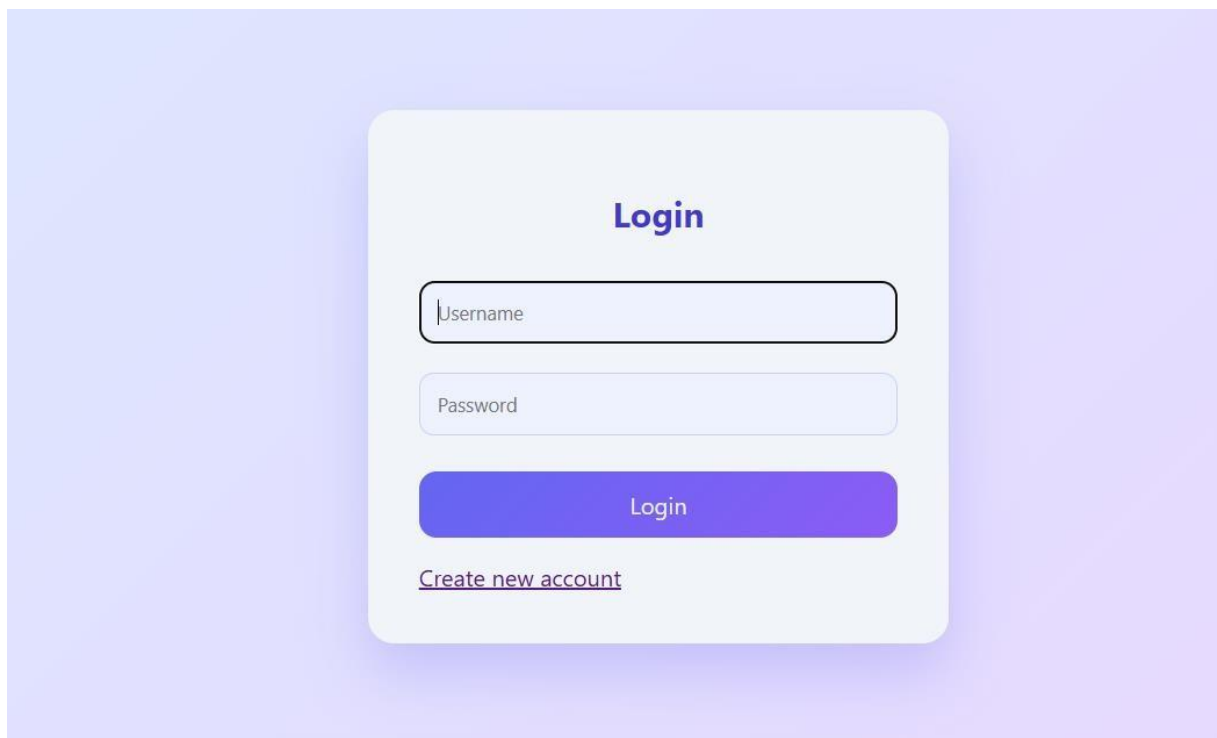
Output / Results

- **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



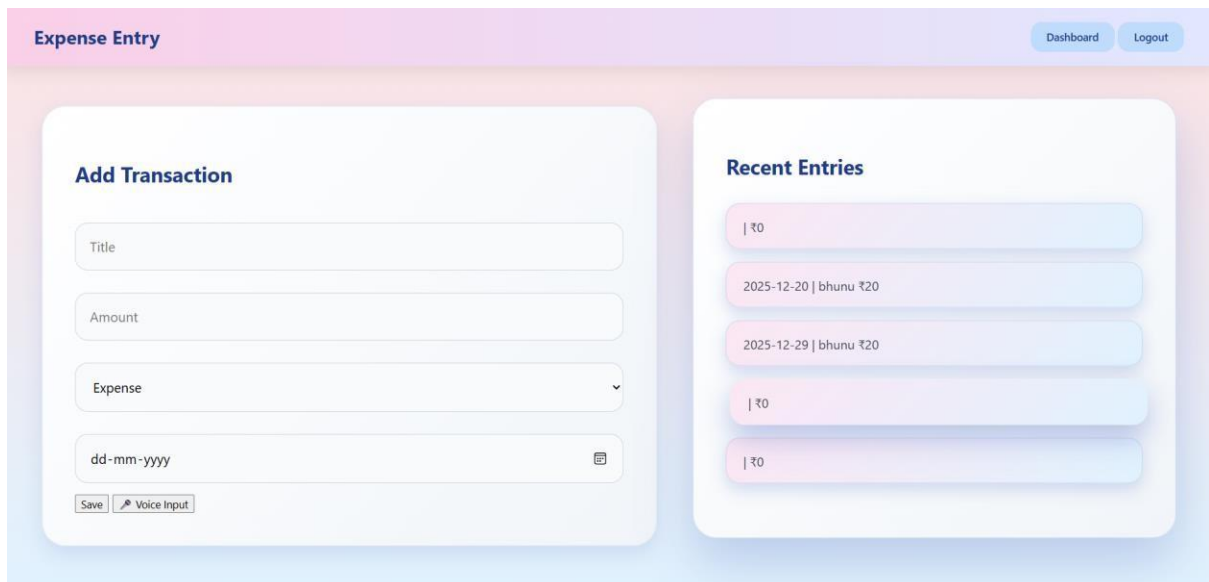
The image shows a 'Create Account' form centered on a light purple background. The form is a white rounded rectangle with a subtle shadow. At the top, the title 'Create Account' is displayed in a bold, dark blue font. Below the title are two input fields: 'Username' and 'Password', both with light blue borders and rounded corners. Underneath these fields is a solid blue 'Register' button with white text. At the bottom of the form, there is a link that reads 'Already have an account?' in a dark blue, underlined font.

After Registration:



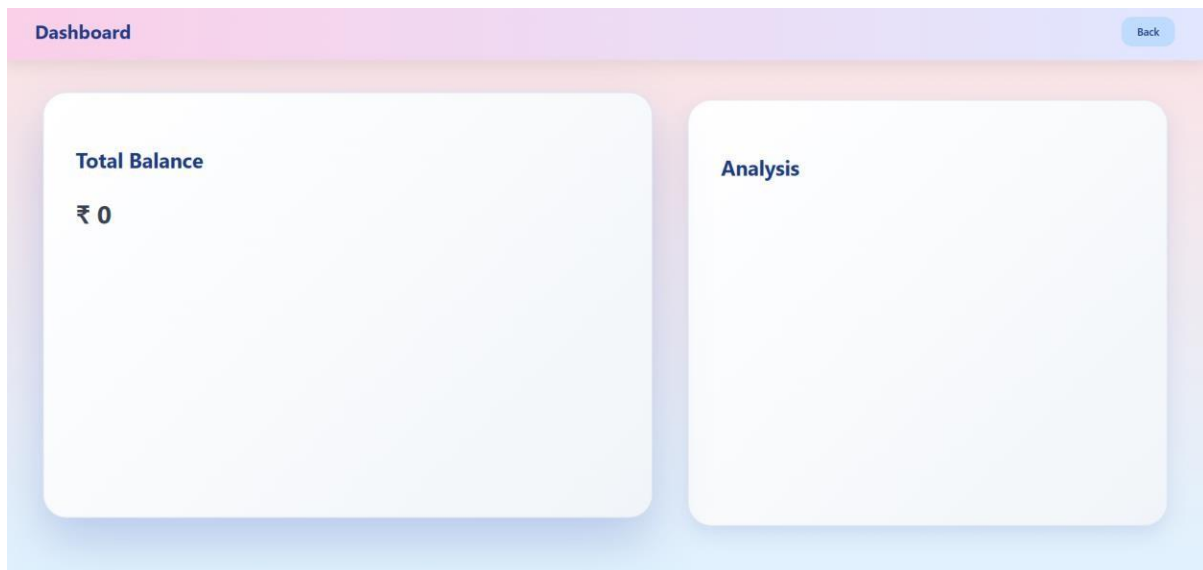
A login form centered on a light purple background. The form is a white rounded rectangle with a purple shadow. It features a title 'Login' in bold purple text. Below the title are two input fields: 'Username' and 'Password', both with light blue borders and rounded corners. A solid purple 'Login' button is positioned below the password field. At the bottom of the form, there is a link '[Create new account](#)' in purple text.

After Login:



The dashboard is titled 'Expense Entry' in a pink header bar. On the right side of the header, there are two buttons: 'Dashboard' (active) and 'Logout'. The main content area is divided into two white rounded rectangles with shadows. The left rectangle is titled 'Add Transaction' and contains four input fields: 'Title', 'Amount', 'Expense' (with a dropdown arrow), and a date field with the placeholder 'dd-mm-yyyy' and a calendar icon. At the bottom of this section are 'Save' and 'Voice Input' buttons. The right rectangle is titled 'Recent Entries' and displays a list of five entries, each in a rounded rectangle with a pink-to-blue gradient. The entries are: '| ₹0', '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

