

Project Report: COINCOUNT

To access our CoinCount website, navigate to the following URL:
<http://3.14.248.143/>.

1. Challenges Addressed by the Project:

The primary challenge addressed by our Coincount is the complexity of financial management for individuals and small businesses. Many people struggle with tracking their expenses and income effectively, leading to financial stress and difficulty in achieving financial goals. Traditional methods of financial management are often time-consuming and not user-friendly, making it hard for users to stay on top of their financial health.

2. Project Objectives:

Our Coincount aims to provide a user-friendly, comprehensive financial management tool. Key goals include:

- Simplifying the tracking of expenses and income.
- Offering valuable insights through an interactive dashboard.
- Promoting financial awareness and literacy.
- Providing timely reminders for critical financial deadlines.
- Facilitating effective financial management to reduce stress and help users achieve financial objectives.

3. Different Ways to Tackle the Issue:

- Manual Tracking: Using traditional methods like spreadsheets or physical ledgers.
- Third-Party Applications: Utilizing existing financial management apps with various features.
- Custom-Built Solutions: Creating a tailored application to meet specific user needs.

4. Our Selected Strategy:

For CoinCount, we combined front-end technologies like HTML, CSS, and JavaScript for a responsive and user-friendly interface, with PHP for robust back-end functionality. Additionally, we integrated AWS for reliable cloud-based hosting and scalability, enhancing the overall performance and security of our financial management tool. This blend of technologies ensures an efficient, secure, and seamless user experience.

The chosen approach involves developing a custom web application, CoinCount, with tailored features for expense and income tracking, user authentication, and data management. This includes:

- **Secure User Authentication:** Enhanced security with reliable login functionality for personalized user experience.
- **User Pages:** Individualized pages for users post-login, saving user-specific details for subsequent sessions.
- **Expense and Income Tabs:** Dedicated tabs for streamlined tracking of expenses and incomes.
- **Expense Entry Feature:** Users can input and save details like expense name, amount, date, and category in the 'Expense' tab.
- **Income Entry Feature:** The 'Income' tab allows users to record income details, including source, amount, date, and notes.
- **Efficient Data Management:** Supports deletion of entries with immediate page refresh for data updates.
- **Persistent Data:** Ensures user data is retained across logins for a continuous experience.
- **Reminder for Recurring Expenses:** Feature to view reminders about future, recurring expenses.
- **User-Friendly Interface:** Intuitive navigation for an enhanced user experience.
- **Secure Data Storage:** Safeguards user data, maintaining confidentiality and integrity.

5. Reasons Behind Our Strategy Choice:

- **Customizability:** Tailoring the application to specific user needs, unlike generic third-party apps.
- **User-Centric Design:** Focusing on ease of use, with a simple yet effective interface.
- **Data Security:** Prioritizing user security with the introduction of user authentication.
- **Practicality:** Offering essential features for financial management without overcomplicating the process.

6. Additional Enhancements:

- **User Experience:** Enhanced with a clear, simple design and 'Home' buttons on every page for quick navigation.
- **Persistent Data:** Ensuring user data remains intact across sessions, improving convenience.
- **Future Expense Reminders:** A new feature to remind users of upcoming, recurring expenses.

7. Conclusion:

CoinCount stands as a tailored solution to the complex issue of personal and small business financial management. By focusing on user-friendliness, security, and essential functionalities, it offers a practical and effective tool for users to manage their finances with ease and confidence.