

# Money Minder: Personal Finance Tracker

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**Abstract-** In the current financial crisis-ridden globe, everyone is looking for the greatest and most efficient methods to handle their personal affairs. This article presents Money Minder, an online tool for thorough and efficient financial tracking. Money Minder was created with the goal of enabling users to successfully manage their finances. Money Minder is easy to use because of its user-friendly UI. Money Minder robustness and security come from its user security features. Its many features enable them to manage their finances. It keeps track of account and transaction balances, deposits, transfers, and category-specific expenses. It also assists in maintaining data regarding current, recurring, non-recurring, and saved transactions. It also serves as a reminder for individuals with approaching or past-due invoices and deposits. Users have the option to filter summary reports by timeframe and view them both by account and by category. It provides a financial summary report, which is useful for people who want a broad overview of all their financial accounts.

**Index Terms-** Personal Finance, Money, Savings, Expenses.

## I. INTRODUCTION

Spending restraint is extremely challenging in the realm of personal finance management and dynamic financial crises. Maintaining control over your finances is crucial. We are pleased to present Money Minder, a personal finance tracker that helps you keep tabs on your spending and finances.

With its extremely user-friendly layout, Money Minder is an easy-to-use software that lets you keep an eye on, optimize, and control your spending. Money Minder gives you the tools to manage your spending whether your goal is to track your spending and create a wise budget, or if you just want to monitor your expenditure.

You may safely compile your financial and spending data in one place with Money Minder assistance. With the aid of graphs and charts, Money Minder offers you a variety of tools to help you visualize your income, expenses, and savings. You have the ability to create personalized spending budgets and get alerts to ensure that all of your out-of-pocket costs stay within your allocated limits. Additionally, you can easily keep track of all of your loans, assets, investments, etc.

Let's empower ourselves by managing all of our expenditures using Money Minder. Money Minder relieves your stress and helps you save for whatever your goals are—retirement, a dream home, car, or trip.

Using Money Minder, your all-inclusive personal finance tracker created to streamline and enhance your financial

journey, take some action about your future savings and finances.

## II. LITERATURE REVIEW

Everyone needs to handle their personal finances. Most of the research emphasizes the significance of careful personal financial planning and monitoring to reach your long-term objectives, maintain economic stability, and enjoy affluence (Kapoor et al., 2019). Utilizing finance tools can help you reach your financial objectives by optimizing your spending patterns.

One major benefit of the change in software technology is that it helps with personal expense management. Better ways to improve your personal money management, budgeting effectiveness, and general financial well-being can be found in digital applications like websites and mobile apps (Hira &

Loibl, 2005). You can track your money in real time using this technology.

Software technology has completely changed how people handle their own finances, providing a way to monitor financial difficulties and assisting in the pursuit of financial independence.

## III. RELATED WORK

Numerous options offered by Personal Finance Tracker are really useful for tracking personal finances. These features—

budget preparation, cost classification, investment tracking, and saves for future goals—help users assess their financial situation and make wise financial decisions.

We are having an effect on raising people's financial knowledge through websites and smartphone apps. You may get real-time notifications and alerts on your spending and savings from these websites and apps.

### Key Features and Functionalities

#### 1. Security Management

- Easy-to-use registration process offered by MoneyMinder that gathers required data during the process
- Secure and quick login and registration process that strengthens the application.

#### 2. User Management

- Manages user data and profiles effectively.
- Offers an easy-to-use registration process that gathers the required information during the registration process.

#### 3. Storage Management

- Users can attach files (receipts, etc.) with the expense entries, and there are no restrictions on the quantity of expenses they can enter.

#### 4. Administration

- It offers more secure access to personal data.
- Every user has their own personal adoration panel.

### Frontend Technologies

- HTML (hypertext markup language):

Webpages are designed using HTML also known as Hypertext Markup Language.

A web page's structure is described using HTML, a common markup language. There are numerous predefined tags in HTML. Web pages are constructed from HTML elements.

### CSS (cascading style sheet)

The primary purpose of CSS, or Cascading Style Sheet, is to style pages written in markup language.

With CSS, we can increase a webpage's responsiveness and make it more user- friendly.

### JavaScript

The dynamic language JavaScript comes with built-in standard operators, types, objects, and functions.

Its syntax is comparable to that of the Java and C programming languages. JavaScript is mostly used to enhance a website's interactivity.

### Backend Technologies

One of the most widely used high-level programming languages is Python, which has a straightforward syntax and is easy to read.

Python has a robust standard library that minimizes the need for external dependencies by facilitating database interaction, networking, and other tasks for programmers.

### Django

Written in Python, Django is a free and open-source server-side web framework.

It is among the most widely used and feature-rich server-side web frameworks available. The main objective of Django is to simplify the process of creating intricate database-driven websites.

## IV. IMPLEMENTATION AND RESULTS

### Implementation

User Registration and Profile Creation: Using their email address, users can register for Money Minder

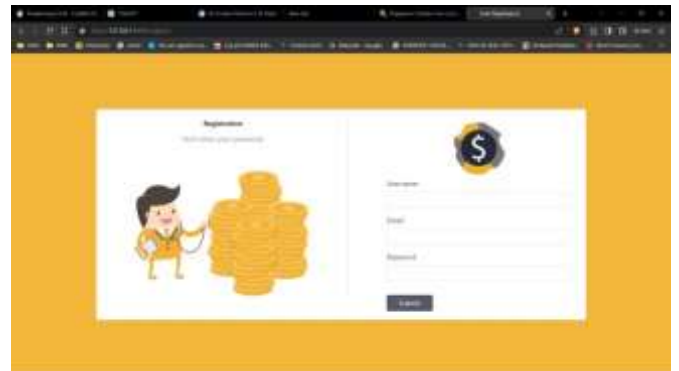


Fig. 1 Sign-up Page

### Money Minder Dashboard:

Users can create budget on dashboard page. After creating budget, they can add expenses which will be subtracted from budget and kept track of. Users can also search for added expenses using search bar. They can also filter all expenses based on date added or Amount.

If user clicks the All-Expenses option, they can see details of all expenses added with options to edit or delete those expenses.

### Results

#### Financial Plan

Users will be able to manage their expenses and make a convenient financial plan for themselves. By doing so it will enable them make decisions about their monthly expense.

### Increased Saving

Users will be able to save more amount of money every month considering they don't make unnecessary expenses that exceed their registered budget.

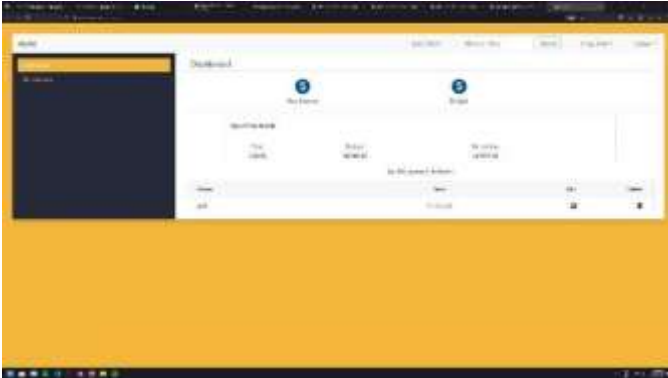


Fig. 2 Dashboard Page

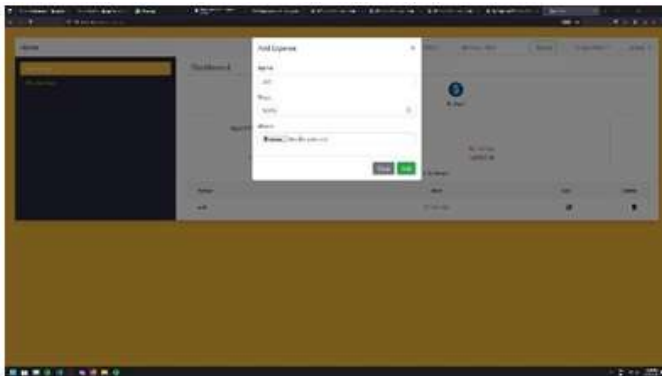


Fig. 3: Adding expenses

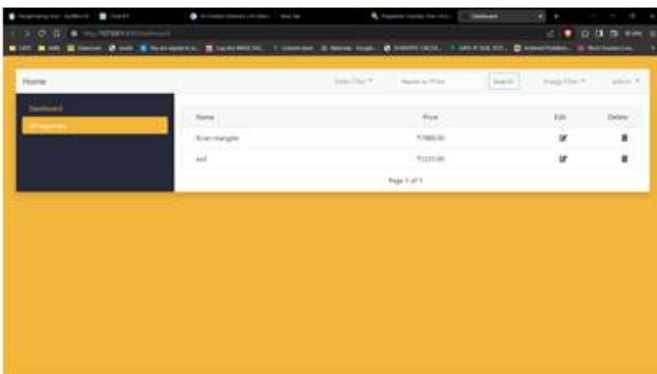


Fig. 4: All expenses

## V. CONCLUSION

In conclusion, Money Minder provides an answer to the problems individual person by solving their problem of finance tracking. Our users effectively track their expenses using Money Minder user friendly interface and strong safety standards.

The safety of the information and user privacy are safeguarded by the method of authentication. Enabling customers to take control of their own user accounts reinforces Money Minder pledge to safeguard each user's private financial data.

All things considered, Money Minder is one of the most helpful tools in the present financial crisis and above it because of Money Minder capabilities it is more than a simply being personal finance tracker. Our users can track what they spend more precisely and manage their money more conveniently with Money Minder.

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