



## PERSONAL EXPENSE TRACKER

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### Abstract

*Cost Tracker is a customary expense control application expected to follow effectively and capably regular expenses. This helps us with discarding the need of paper liabilities that intentionally stays aware of information. Using Ordinary procedures could incite security and dependability issues. Taking everything into account, we utilize a cloud-based limit with respect to a more secure, botch free and safe other choice. This exact way to deal with taking care of your information associated with your expenses would help you with checking your utilization and further you don't have to genuinely store them. This assists the public with hindering the issues like liquidation and save time from manual calculations. Reasonable depictions like pie frames and visual outlines enable a striking and clear comprehension of the expenses and plans for a relationship with the past use.*

### KEYWORDS

*Expense, cloud-based, liabilities.*

### INTRODUCTION

Cost Tracker to oversee house-old spending plan effectively. Our framework will permit client to monitor their costs. Some factual investigation should be finished to have the option to give clients right data on their costs and assist them with spending better. This assists the public with assisting them from issues with loving insolvency and save time from manual computations. For utilizing such application, a client needs to give his/her all out pay or the sum he/she is spending each day and all client subtleties or data will be put away in a special manner. Each client is enlisted on the framework to make a record one of a kind to the client. This clever cost racker utilizes cloud innovation to store and recover the information. A client can undoubtedly set financial plans for every month and track the amount they have spent up to this point and the cut-off they can spend.

Overseeing individual budget is a significant assignment that each representative or a procuring part in the family ought to zero in on. Individual budget of oneself should be followed and watched out for. Cost following aides in overseeing it and saving superfluous expenditures that might influence reserve funds or in Overseeing individual budget is a significant assignment that each representative or a procuring part in the family ought to zero in on. Individual budget of oneself should be followed and watched out for. Cost following aides in overseeing it and saving superfluous expenditures that might influence reserve funds or instalments to be made later. Already, cost following was done physically by bookkeepers that should have been employed or the individual does it without anyone else's help by overseeing break of their bustling timetables. Individ-

ual cost tracker finishes that work for the client after the client enters every one of the important monetary information into the framework. Instalments to be made later. Already, cost following was done physically by bookkeepers that should have been employed or the individual does it without anyone else's help by over-seeing break of their bustling timetables. Individual cost tracker finishes that work for the client after the client enters every one of the important monetary information into the framework.

### CLOUD COMPUTING

Cloud computing is the on-demand delivery of IT resources over the Internet with pay-as-you-go pricing. Instead of buying, owning, and maintaining physical data centers and servers, you can access technology services, such as computing power, storage, and databases, on an as-needed basis from a cloud provider like Amazon Web Services (AWS).

Here are some benefits of cloud computing:

#### 1. AGILITY

The cloud gives you easy access to a broad range of technologies so that you can innovate faster and build nearly anything that you can imagine. You can quickly spin up resources as you need them—from infrastructure services, such as compute, storage, and databases, to Internet of Things, machine learning, data lakes and analytics, and much more.

You can deploy technology services in a matter of minutes and get from idea to implementation several orders of magnitude faster than before. This gives you the freedom to experiment, test new ideas to differentiate customer experiences, and transform your business.

#### 2. ELASTICITY

With cloud computing, you don't have to over-provision resources up front to handle peak levels of business activity in the future. Instead, you provision the number of resources that you need. You

can scale these resources up or down to instantly grow and shrink capacity as your business needs change.

### 3.COST SAVING

The cloud allows you to trade fixed expenses (such as data centers and physical servers) for variable expenses, and only pay for IT as you consume it. Plus, the variable expenses are much lower than what you would pay to do it yourself because of the economies of scale.

### 4.DEPLOY GLOBALLY IN MINUTES

With the cloud, you can expand to new geographic regions and deploy globally in minutes. For example, AWS has infrastructure all over the world, so you can deploy your application in multiple physical locations with just a few clicks. Putting applications in closer proximity to end users reduces latency and improves their experience.

### 5.SYNCHRONIZATION

Another benefit of cloud storage relates to synchronization. Each cloud storage provider gives the sync feature. With synchronization, you can sync the cloud storage data with any device you want. As we have discussed, we can access our data from any device and any part of the world, but this accessibility is done with the help of synchronization. With proper credentials, you can log in to your subscribed storage service with any device, and you will be able to access your all data that have been stored in that cloud storage. There is no need to copy data from one device to another, but you need a good internet connection to access your files.

## AMAZON S3

### 2.1 INTRODUCTION

Amazon Simple Storage Service (Amazon S3) is an object storage service offering industry-leading scalability, data availability, security, and performance. Customers of all sizes and industries can store and protect any amount of data for virtually any use case, such as data lakes, cloud-native applications, and mobile apps. With cost-effective storage classes and easy-to-use management features, you can optimize costs, organize data, and configure fine-tuned access controls to meet specific business, organizational, and compliance requirements.

### 2.2 HISTORY

Amazon Web Services introduced Amazon S3 in 2006. Amazon reported it stored more than 100 trillion objects as of March 2021, up from 10 billion objects in October 2007, 14 billion objects in January 2008, 29 billion objects in October 2008, 52 billion objects

in March 2009, 64 billion objects in August 2009, 102 billion objects in March 2010, and 2 trillion objects in April 2013.

In November 2017 AWS added default encryption capabilities at bucket level. Amazon S3 manages data with an object storage architecture which aims to provide scalability, high availability, and low latency with high durability.

### 2.3 USE CASE

The basic storage units of Amazon S3 are objects which are organized into buckets. Each object is identified by a unique, user-assigned key. Buckets can be managed using the console provided by Amazon S3, programmatically with the AWS SDK, or the REST application programming interface. Objects can be up to five terabytes in size. Requests are authorized using an access control list associated with each object bucket and support versioning which is disabled by default. Since buckets are typically the size of an entire file system mount in other systems, this access control scheme is very coarse-grained. In other words, unique access controls cannot be associated with individual files. Amazon S3 can be used to replace static web-hosting infrastructure with HTTP client-accessible objects. The Amazon AWS authentication mechanism allows the creation of authenticated URLs, valid for a specified amount of time. Every item in a bucket can also be served as a BitTorrent feed. The Amazon S3 store can act as a seed host for a torrent and any BitTorrent client can retrieve the file. This can drastically reduce the bandwidth cost for the download of popular objects. A bucket can be configured to save HTTP log information to a sibling bucket; this can be used in data mining operations.

There are various User Mode File System (FUSE)-based file systems for Unix-like operating systems (for example, Linux) that can be used to mount an S3 bucket as a file system. The semantics of the Amazon S3 file system are not that of a POSIX file system, so the file system may not behave entirely as expected.

Amazon S3 provides the option to host static HTML websites with index document support and error document support.

## IMPLEMENTATION

The implementation of personal expense tracker can be done in multiple ways. The current method includes HTML CSS and JavaScript.

**The HyperText Markup Language** or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets and scripting languages such as JavaScript.

**Cascading Style Sheets** is a style sheet language used for describing the presentation of a document written in a markup language such as HTML or XML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript

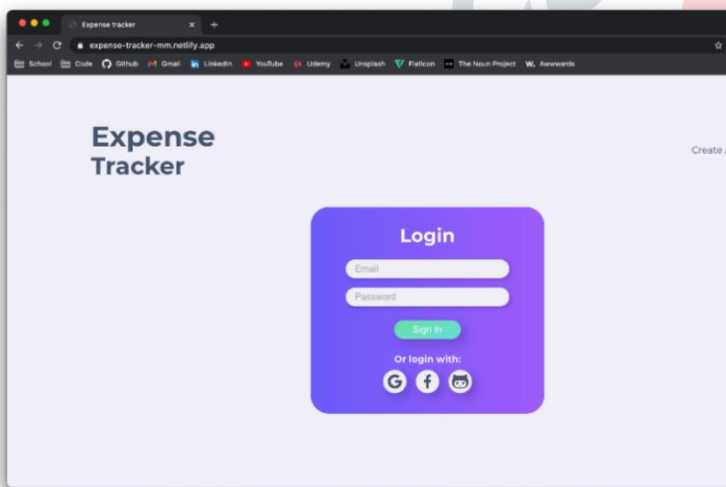
**JavaScript**, often abbreviated as JS, is a programming language that is one of the core technologies of the World Wide Web,

alongside HTML and CSS. As of 2022, 98% of websites use JavaScript on the client side for webpage behavior, often incorporating third-party libraries.

## MODULES

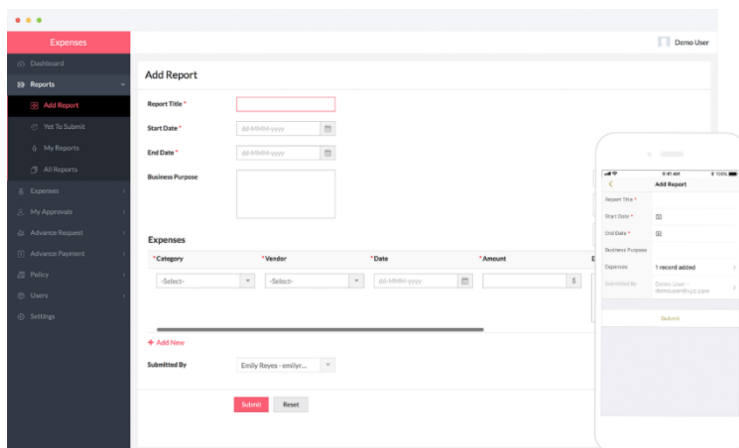
### 3.1 Welcome Module

This module is used as a welcome page to which is configured as the face of the project. On this page we are given a choice to registering into an existing database using Login Button by having pre-made login credentials or to make a new database for a new user using Sign-Up Button.



### 3.2 Login Module

This module will be used to enter an existing database with the help of pre-made login credentials. After entering the correct login credentials the user will move to the Income-Expense page where he/she can enter their data. It also contains the option to register in case there is not such database as entered.



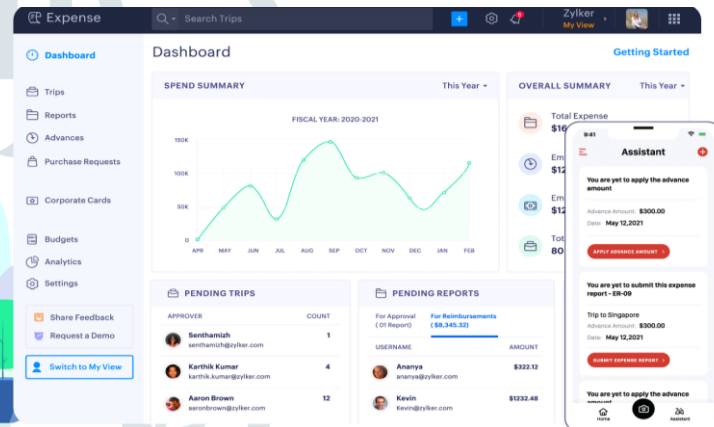
### 3.3 Sign-Up Module

This module will be used to create a new database for new users by entering details such as username and password. After creating the username, the user will be re-directed to the login page to enter the

newly made login credentials and move towards the Income Expense module.

### 3.4 Income-Expense Module

This module will be used to enter the income and daily expense of the user, which will be stored in the database. This module will also compare the two tables and give a graph between Income and Expense.



### 3.5 Expense Report Module

Daily Expense Tracker is a tool which allow users to keep track of their expenditure to ensure they stick to a budget and don't overspend. Such system incorporates several modules to provide an innovative and user-friendly interface. Including the option of setting a monthly income and savings, it also helps user as they can monitor how much they are spending daily. By doing analysis of the inputs made to this, it will help the users understand where they spend their money the most, so that they can devise method to cut back on spending extra on those items.

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