













# PROJECT BASED EXPERIENTIAL **LEARNING**

# PERSONAL EXPENSE TRACKER **APPLICATION**

**BATCH ID** B11 - 5A1E







# PERSONAL EXPENSE TRACKER APPLICATION

### A PROJECT REPORT

Submitted by

# **TEAM ID - PNT2022TMID17124**

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# **BACHELOR OF ENGINEERING**

IN

# **ELECTRONICS AND COMMUNICATION ENGINEERING**

# MAHENDRA ENGINEERING COLLEGE NOVEMBER 2022

### MAHENDRA ENGINEERING COLLEGE

(Autonomous)

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### ELECTRONICS AND COMMUNICATION ENGINEERING

# **BONAFIDE CERTIFICATE**

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# PROJECT REPORT

#### 1. INTRODUCTION

With the launch and increase in sales of smartphones over the last few years, people are using mobile applications to get their work done, which makes their lives easier. Mobile applications comprise various different categories such as Entertainment, Sports, Lifestyle, Education, Games, Food and Drink, Health and Fitness, Finance, etc. This Expense Tracker application falls in the Finance Category and serves the important purpose of managing finances which is a very important part of one's life. The software product went through the design, development, and the testing phase as a part of the Software Development Lifecycle.

#### 1.1 PROJECT OVERVIEW

In today's busy and expensive life we are in a great rush to make money. But at the end of the month, we broke off. As we are unknowingly spending money on little and unwanted things. So, we have come over with the idea to track our earnings. The daily expense tracker aims to help everyone who is planning to know their expenses and save from it. An Personal expense tracker is a app that the user's can update their daily expenses so that they are well known for their expenses. Here users can choose categories for expense types like food, clothing, rent, and bills where they have to enter the money that has been spent and also can add some information in additional information to specify the expense. Users will be able to see graphs of expenses. Users can save those graphs for their own reference.

#### 1.2 PURPOSE

In proposed system user has more number of added features to the existing features like

• Weekly Budget Planner, Automated message Alert, UPI linkup, Weekly and Monthly Analysis, Weekly Budget Planner to track their expenses. Automated message Alert is generated when they cross their budget. UPI linkup to track their online transactions. Weekly and Monthly Analysis are generated in the form of pie chart. App Authentication for security of the user. Income, Expenses, and Wish List are the three data entry choices available to the use.

# 2. LITERATURE SURVEY

S.no	Title	Author	Journal	Year	Methodology
1.	Security and privacy	Muhammad	Journal of	2017	Computational
	challenges in mobile	Baqer Mollah et	Network and		offloading,
	cloud computing :	al	Computer		Virtualization
	survey and way		Applications		
	ahead				
2.	Exploring	Hai Nguyen et al	Journal of	2017	Virtualization,
	infrastructure		Cloud		Introspection
	support for app		Computing		and Security
	based services on		Advances		
	cloud platforms		Systems and		
			Applications		
3.	Mobile Financial	Kurniawan Dwi	International	2019	Google Vision
	Management	Saputra et al	Conference on		Cloud API,
	Application using		Computer		Optical
	Google Cloud		Science and		Character
	Vision AP		Computaional		Recognition
			Intelligence		
4.	Cloud Based	Sukhpal Singh,	International	2020	A Methodical
	Development Issues	Inderveer Chana	Journal of		Analysis
			Cloud		
			Computing and		
			Services		
			Science		
5.	Expense Tracker	Prof Miriam	International	2020	Least Square
		Thomas,	Journal of		Algorithm
		Lekshmi P, and	Advanced		
			Research in		

		Dr.Mahalekshmi	Science,		
		T	Communication		
			and Technology		
6.	Cloud based	Asthha Wahal	International	2021	Clustering,
	Expense Tracker	and Muskan	Journal of		Apriori
		Aggarwal	Innovative		algorithm,
			Research in		Virtualization
			Technology		
7.	A Novel Expense	Muskaan	International	2021	Statistical
	Tracker	Sharma, Ayush	Journal of		Analysis, Data
		Bansal, Dr. Raju	Innovative		Mining
		Ranjan, Shivam	Research in		
		Sethi	Technology		
8.	Student Expense	Saumya Dubey,	International	2022	Clustering,
	Tracking	Pragya Dubey,	Journal of		Classification
	Application	Rigved Rishabh	Advance		and
		Kumar, Aaisha	Research and		Association
		Khatoon	Innovative		
			Ideas in		
			Education		

# 2.1 EXISTING PROBLEM

An expense tracker to prevent having to calculate income and expenses, as well as to remind someone to keep their expenses in track and also to add some details on how much money comes from other people and what expenses or payments the user have to make on a given date or month, User have categories in the expenditure tracker such as add expense, monthly expenses, add new expense, see categories of spending, export expenses in a date range, remove export files, and view expenses by category.

#### 2.2 REFERENCES

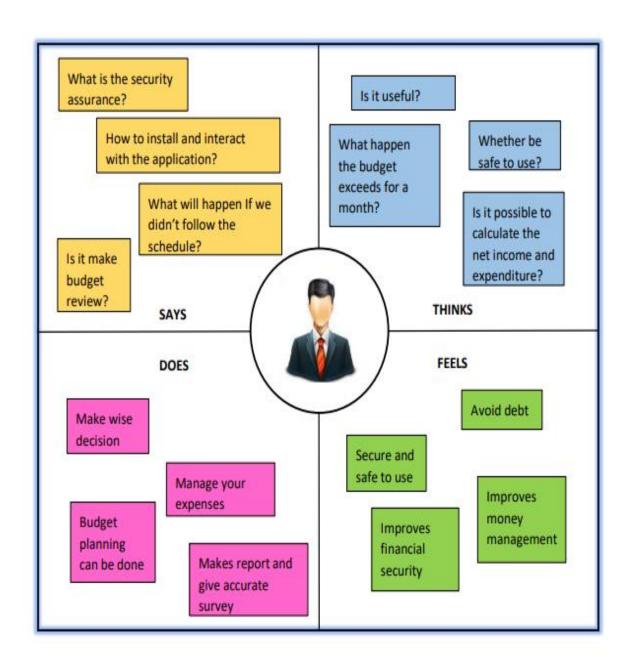
- [1] D. GRAZIANO, Gartner: Apple leads smartphone sales to new heights. BGR Media, http://bgr.com/2012/02/15/gartner-apple-leads-smartphone-sales-to-new-heights/, accessed October 2012, February 2012.
- [2] M. BROWNLOW, Smartphone statistics and market share. Email-Marketing-Reports, http://www.email-marketing-reports.com/wireless-mobile/smartphone-statistics.htm, accessed October 2012, October 2012.
- [3] C. HEATH AND J. B. SOLL, Mental budgeting and consumer decisions, J. Consumer Res., 23 (1996), pp. 40-52.
- [4] J. HASTINGS AND J. M. SHAPIRO, Mental accounting and consumer choice: Evidence from commodity price shocks. Unpublished report, 2012.
- [5] MINT, Homepage. Mint, https://www.mint.com, accessed October 2012, n.d
- .[6] APPLE, iOS technology overview. Apple, http://developer.apple.com/library/ios/#documentation/Miscellaneous/Conceptual/iPhoneOSTechOverview/Introduction/Int roduction.html, accessed October 2012, n.d.
- [7] APPLE, Key objects of an iOS app. Apple, http://developer.apple.com/library/IOs/# documentation/iPhone/Conceptual/iPhoneOSProgrammingGuide/AppArchitecture/A ppArchitecture.html#//apple\_ref/doc/uid/TP40007072-CH3-SW2, accessed October 2012, n.d.

#### 2.3 PROBLEM STATEMENT DEFINITION

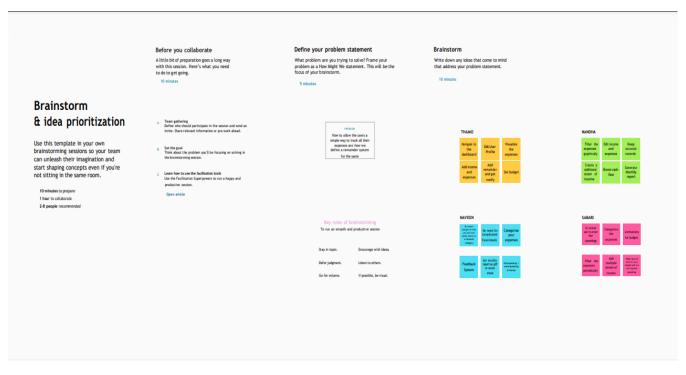
- At the end of the month we start to have money crisis.
- Lack of proper planning of our income.
- Person has to keep a log in a diary or in a computer.
- All the calculations need to be done by the user.

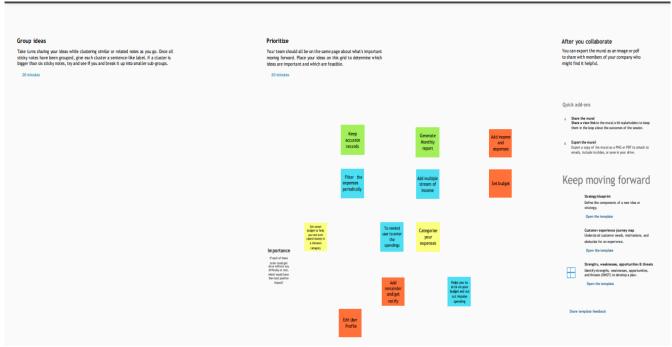
### 3. IDEATION & PROPOSED SOLUTION

### 3.1 EMPATHY MAP CANVAS



### 3.2 **IDEATION & BRAINSTORMING**





# 3.3 PROPOSED SOLUTION

S.no.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Tracking expenses is one of the key factors in making budget work. At the instant, there is no as such complete solution present easily which enables a person to keep a track of its daily expenditure easily.
		To do so a person has to keep a log in a diary or in a computer, also all the calculations need to be done by the user which may sometimes results in errors leading to losses.
		Due to lack of a complete tracking system, there is a constant overload to rely on the daily entry of the expenditure.
2.	Idea / Solution description	In this project, we developed a cloud-based web application which keeps track of user's personal expenses.  This system attempts to free the user with as much as possible the burden of manual calculation and to keep the track of the expenditure. This system also eliminates sticky notes, bills.

3.	Novelty / Uniqueness	This personal expense tracker Application has features that enables the user to have an option to set a limit for the amount to be used.  If the limit is exceeded the user will be notified with an Email and SMS alert. Thistracker doesn't have annoying ads.
4.	Social Impact / Customer Satisfaction	The user will be able to Stick to their Spending Limits.  They can able to scan their bills anytime thus data loss is avoided.  Users can also able to get an analysis of their expenditure in graphical forms.
5.	Business Model (Revenue Model)	This application will generate revenue by offering premium features to the user.  Advertising through app is the easy way to earn money. Users may pay to remove the app advertisements.  Through subscription the users can able to connect their bank account.
6.	Scalability of the Solution	Since this application is deployed on IBM Cloud, it can handle multiple users at a time.  With our application, the users can be able to manage their expenses more effectively and know about their budget Vs income.

### 3.4 PROBLEM SOLUTION FIT

#### Project Design Phase-I - Solution Fit Template

Project Title:	Perconal	Evnence	Tracker	Application

# 1. CUSTOMER SEGMENT(S) \* Working peoples

- Organizations
- Students and families
- Common people with all ages can able to track their expenses.

#### 2. JOBS-TO-BE-DONE / PROBLEMS

- People have to track their expenses regularly.
- They need to keep their receipts and bills which shows their amount they spent.
- Also they need to manually add or remove the desired categories.

#### 5.CUSTOMER CONSTRAINTS

- ❖ Network Issues
- Data Privacy
- Spending power
- Available devices

#### 6.PROBLEM ROOT CAUSE

- The root cause for this problem is the delay in the budget.
- There may be a chance of getting errors in human calculations.
- No one alerts if their spending exceeds particular limit.
- They do not have enough time for calculating their expenditure.

#### 8.AVAILABLE SOLUTIONS

People makes use of sticky notes or diary for calculating their expenditure.

Team ID: PNT2022TMID17124

Explore AS, differentiate

#### Pros:

 Didn't need any devices for calculations.

#### Cons:

- 1. Time consuming.
- 2. Manual errors occur sometimes.

#### 9.BEHAVIOUR

- People should know their budget for each month and set appropriate saving goals.
- Collect receipts regularly without fail

#### 3. TRIGGERS

- Realizing that excessive spending leading to lack of money in case of emergencies.
- Lack of Budgeting knowledge.

#### 7.YOUR SOLUTION

- A cloud-based web application which keeps track of user's personal expenses. This system attempts to free the user with as much as possible the burden of manual calculation and to keep the track of the expenditure.
- User just need to enter their day-to-day expenses. They also have an option to set the limit. If their expenditure exceeds that limit, notification will be sent through mail.
- This system also eliminates sticky notes, bills.

#### 10.CHANNELS OF BEHAVIOUR

#### ONLINE

- \* Provide the details of day-to-day expenses.
- Select the area where customers use.
- Maintain the expenses for budgeting.

#### OFFLINE

- Maintain the required documents regularly.
- Inspect the expenses for budgeting.

#### 4. EMOTIONS: BEFORE / AFTER

#### Before

- Excessive expenditure
- Afraid of spending

#### After

- . Being aware of what they are spending.
- Satisfied and happy with their budget expenditure.
- There will not be any frustrations any more since the process is quick and flexible.

# 4. **REQUIREMENT ANALYSIS**

# 4.1Functional requirement

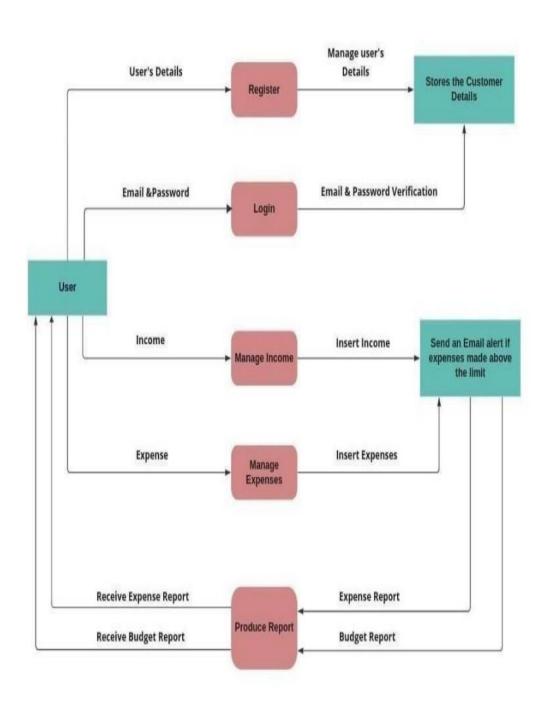
FR	Functional	Sub Requirement (Story / Sub-Task)
No.	Requirement (Epic)	
FR-1	User Registration	Registration through Form Registration through
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Financial Accounts	Account Details  Verification of Details
FR-4	User Dashboard	Expense Data Data Records
FR-5	User Notifications	System Access  Real time Alerting
FR-6	Security of User Data	Secured Database  Data Security Algorithms

# 4.2Non-Functional requirements

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	By using this application, the user can keep track of their expenses and can ensure that user's money is used wisely.
NFR-2	Security	Maintain user personal details in a encrypted manner by using data security algorithms .
NFR-3	Reliability	It will maintain a proper tracking of day-to-day expenses in an efficient manner.
NFR-4	Performance	By enter our incoming and departing cash, and the software can help you keep and monitor it with at-most quality and security with high performance.
NFR-5	Availability	Using charts and graphs may help you monitor your budgeting and assets.
NFR-6	Scalability	Rely on your budgeting app to track, streamline, and automate all the recurrent expenses and remind you on a timely basis.

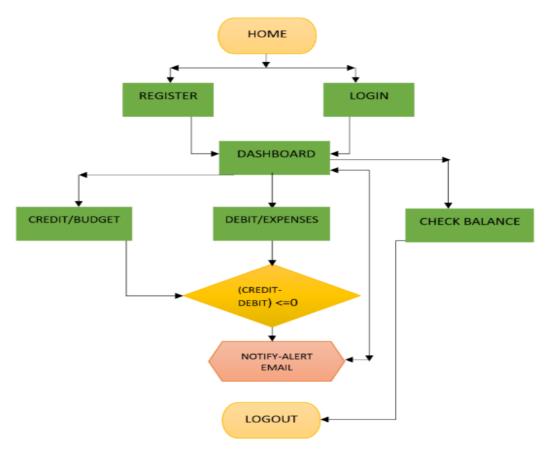
# 5. PROJECT DESIGN

# **5.1Data Flow Diagrams**



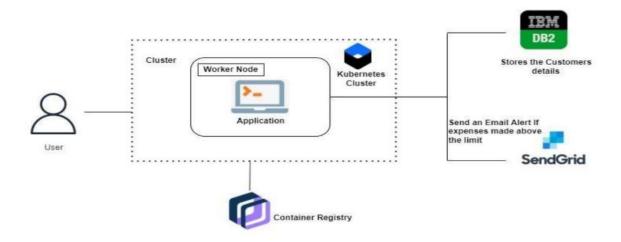
# 5.2 Solution & Technical Architecture

#### **Solution Architecture:**



#### Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table 1 & table 2



# 5.3 User Stories

User Type	Functional Require -ment (Epic)	User Story Num -ber	User Story / Task	Acceptance criteria	Priority
Customer (Mobile user)	Registratio n	USN -1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account /dashboard	High
	Login	USN -2	As a user, I can log into the application by entering email & password	I can access Theapplication	High
	Dashboard	USN -3	As a user I can enter my income and expenditure details.	I can view my Dailyexpenses	High
Customer Care Executive		USN -4	As a customer care executive, I can solvethe log in issues and	I can provide support or solution at any time 24*7	Mediu m

			other issues of the application.		
Administrato	Applicatio	USN	As an	I can fix the	Mediu
r	n	-5	administrat	bug which	m
			or I can	arises for the	
			upgrade or	customersan	
			update the	d users of	
			application.	the	
				application	

# 6. PROJECT PLANNING & SCHEDULING

# $6.1 \\ \textbf{Sprint Planning \& Estimation}$

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	23 Oct 2022	28 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	30 Oct 2022	04 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	06 Nov 2022	11 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	13 Nov 2022	18 Nov 2022	20	19 Nov 2022

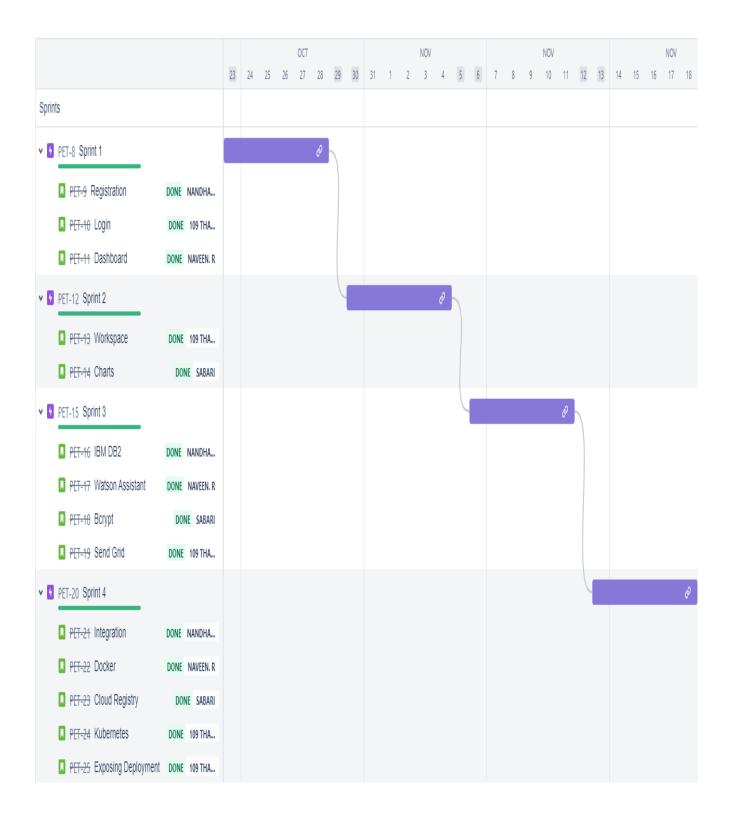
# 6.2 Sprint Delivery Schedule

Sprint	Functional	User	User Story / Task	Story	Priority	Team Members	
	Requirement	Story		Points			
		Number					
	(Epic)						
Sprint - 1	Registration	USN -1	As a user, I can register for the application by entering my email, new password and confirming the same password.	2	High	Thamodharan S  Nandha Kumar M  Naveen R	
		USN -2	As a user , I will receive confirmation email once I have registered for the application.	1	Low	Sabari K	
	Login	USN -3	As a user, I can log into the application by entering email and password / Google OAuth.	2	High	Thamodharan S Nandha Kumar M	
	Dashboard	USN -4	Logging in takes the user to their dashboard.	1	Low	Naveen R Sabari K	
Sprint - 2		USN -5	As a user ,I will update my salary at the start of each month.	1	Medium	Nandha Kumar	
		USN -6	As a user, I will set a target/limit to keep track of my expenditure.	1	Medium	Naveen	
	Workspace	USN -7	Workplace for personal expense tracking	1	Medium	Thamodharan S	
	Charts	USN -8	Graphs to show weekly and everyday expenditure	2	High	Naveen	

	USN -9	As a user, I can export raw data	1	Medium	Nandha Kumar
		as csv file.			

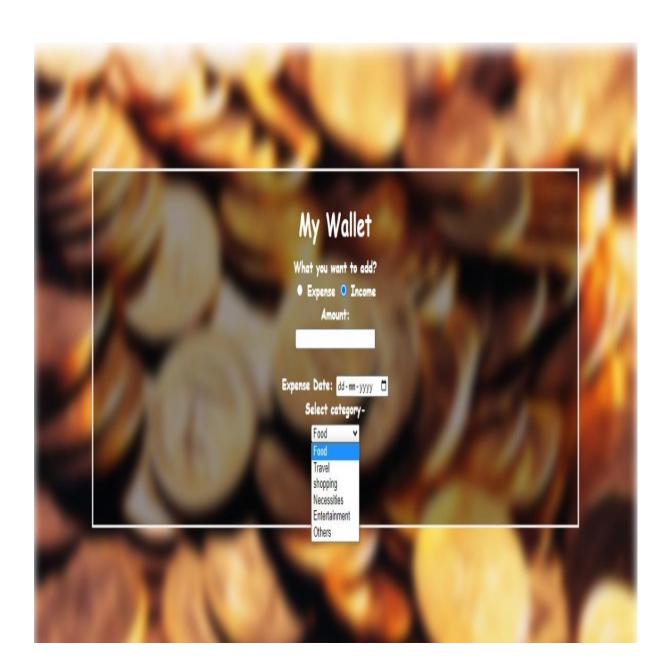
Sprint	Functional	User	User Story / Task	Story	Priority	Team
		Story		Points		Members
	Requirement	Number				
	(Epic)					
Sprint - 3	IBM DB2	USN -10	Linking database with dashboard	2	High	Nandha Kumar
		USN -11	Making dashboard interactive with JS	2	High	Thamodhar an
	Watson Assistant	USN -12	Embedding Chatbot to clarify user's queries.	1	Low	Naveen
	BCrypt	USN -13	Using BCrypt to store passwords securely.	1	Medium	Sabari
	SendGrid	USN -14	Using SendGrid to send mail to the user. (To alert or remind)	1	Medium	Nandha Kumar
Sprint - 4	Integration	USN -15	Integrating frontend and backend.	2	High	Thamodhara n
	Docker	USN -16	Creating Docker image of web app.	2	High	Naveen
	Cloud Registry	USN -17	Uploading docker image to IBM cloud registry.	2	High	Sabari
	Kubernetes	USN -18	Creating container using docker and hosting the webapp.	2	High	Naveen
	Exposing Deployment	USN -19	Exposing IP/Ports for the site.	1	Medium	Nandha Kumar

# 6.3 Reports from JIRA

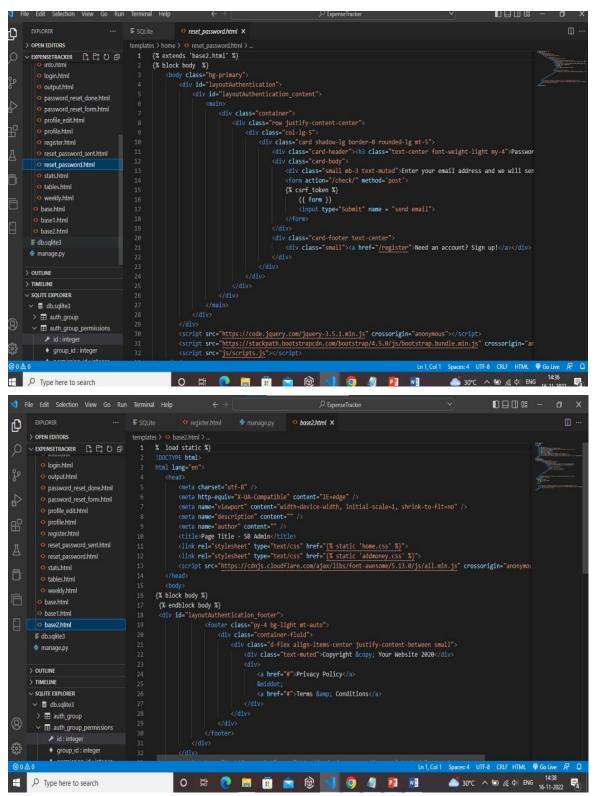


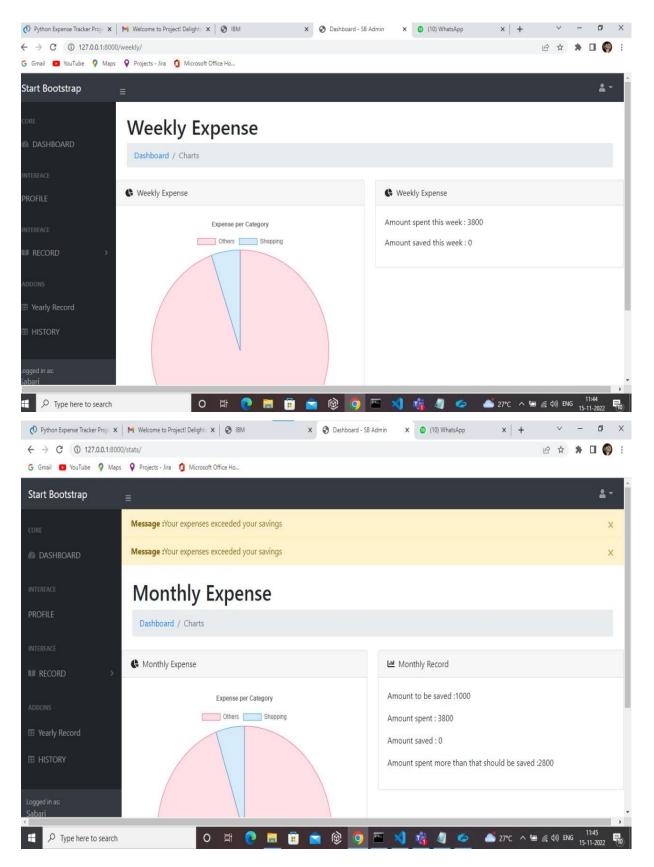
# 7. CODING & SOLUTIONING (Explain the features added in the project along with code)

#### 7.1Feature 1



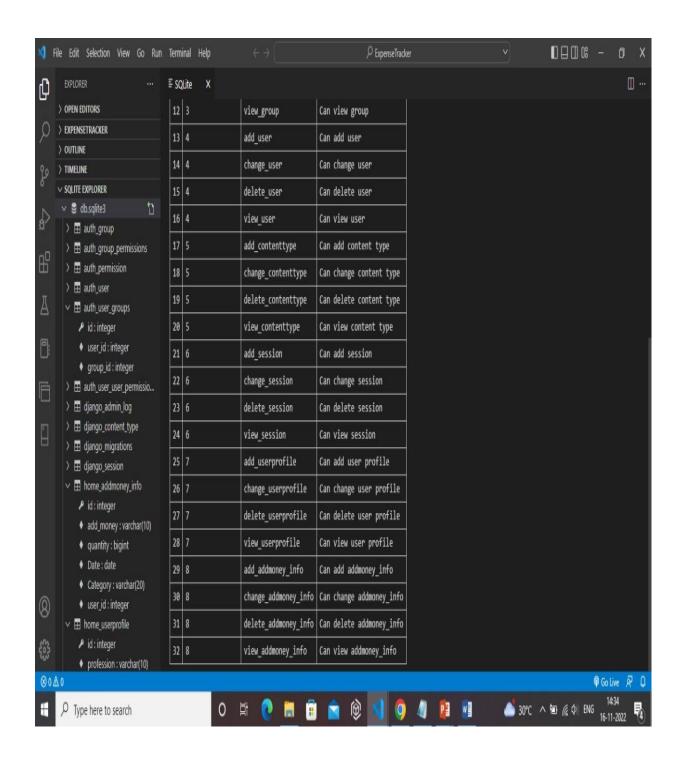
7.2Feature 2





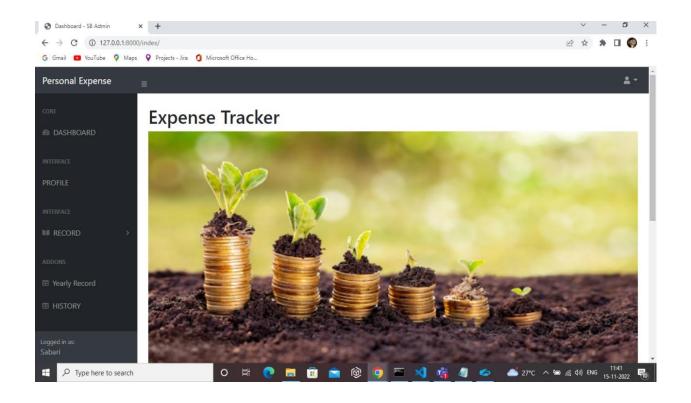
### 7.3 Database Schema (if Applicable)



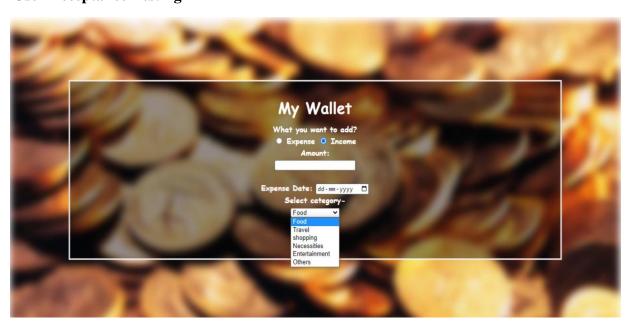


# 8. TESTING

# 8.1Test Cases



# 8.2User Acceptance Testing



# 9. **RESULTS**

Daily spending tracking can not only help you save money, but it can also help you set financial objectives for the future. If you know exactly where your money goes each month, you can quickly see where you can make some savings and compromises. We have designed a project that is more efficient than other income and expense trackers. The project succeeds in avoiding manual calculations for estimating monthly revenue and expenses. The modules have been designed to be both efficient and appealing

### 10. ADVANTAGES

- Create a monthly budget
- Know where you're spending more than you actually think you are
- Figure out ways to cut back on your spending
- Know how much extra payments you can make towards your debt
- Plan for future large purchases
- Create a savings plan for putting money away every month
- Plan for retirement
- Create an investment strategy with extra money
- Prepare to file income taxes

### 11. CONCLUSION

We now present and discuss the limitations of the new product, issues faced, and the remedies to those limitations. While building this expense tracking software tool, the major focus was to make this tool less user intensive and more user productive. The first version of this application is only applicable to the USA. It could have been used in other countries if I would have used currency converters in the application, which I will improvise in the later version. Certain issues were faced while implementing this tool and various important things were kept in mind. For example, the user interface is designed simple yet creative so that the user doesn't face any difficulty in using the software tool and the expense data is persisted on the device even if the user deletes the application from the memory background. Core Data was chosen over SQLite to persist the data which is very beneficial even though the data would reside on the device locally. iCloud functionality is missing. This would allow data to be saved to a Cloud and shared between various devices. The application lacks the feature of PDF by which the list of expenses.

#### 12. FUTURE SCOPE

- In this project, a rich model's design and implementation are discussed, allowing third-party cloud apps to access a client's virtual machines (VMs) and carry out privileged operations. The infrastructure support required to support cloud apps was discussed. Different design approaches to deploy cloud apps were also addressed. Various examples were used to demonstrate and assess the practicality of cloud applications.
- In order to address the primary financial issues, this study looked at the potential usefulness of the mobile application "Manage on Money (MoM)". OCR technology was created using Google Cloud Vision API. This technique works well for locating a single precise keyword on a receipt printed in black ink. MoM enables users to arrange their recurring expenses and sends a push reminder prior to the due date. OneSignal API serves as the foundation for this notification.

• This application allows the user to enter their income to determine their daily expenses, and the results are saved for each user. The application has a feature that uses data mining to predict the manager's income and expenses. The suggested system takes less time to process, and all the information is updated and processed right away.

# 13. **APPENDIX** Source Code

# GitHub & Project Demo Link

https://github.com/IBM-EPBL/IBM-Project-4914-1658742869

https://youtu.be/4tvpKvfoZVY

### **BASE.HTML**

```
{% load static %}
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8"/>
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no"</pre>
/>
    <meta name="description" content="" />
    <meta name="author" content="" />
    <title>Page Title - SB Admin</title>
     {% comment %} k rel="stylesheet" type="text/css" href="{% static 'styles.css' %}">
{% endcomment %}
    k rel="stylesheet" type="text/css" href="{% static 'login1.css' %}">
    k rel="preconnect" href="https://fonts.gstatic.com">
    link
href="https://fonts.googleapis.com/css2?family=Big+Shoulders+Stencil+Text:wght@700&di
splay=swap" rel="stylesheet">
               src="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.13.0/js/all.min.js"
crossorigin="anonymous"></script>
  </head>
  <body>
```

```
<div class="messages" id="alert-message">
 {% for message in messages %}
 <div class="alert alert-{{ message.tags }} mb-0 alert-dismissible fade show" role="alert">
  <strong>Message :</strong>{{ message }}
  <button type="button" class="close" data-dismiss="alert" aria-label="Close">
   <span aria-hidden="true">&times;</span>
  </button>
 </div>
 {% endfor %}
</div>
{% block body %}
 {% endblock body %}
 <div id="layoutAuthentication_footer">
         <footer class="py-4 bg-light mt-auto">
           <div class="container-fluid">
              <div class="d-flex align-items-center justify-content-between small">
                {% comment %} <div class="text-muted">Copyright &copy; Your Website
2020</div>
                <div>
                  <a href="#">Privacy Policy</a>
                  ·
                  <a href="#">Terms & Conditions</a>
                </div>
             </div> {% endcomment %}
           </div>
```

```
</footer>
       </div>
     </div>
     <script type="text/javascript" src="http://code.jquery.com/jquery-latest.js"></script>
  <script type="text/javascript">
  $(function(){
  setTimeout(function(){
    $("#alert-message").hide();
     }, 2000);
    });
  </script>
     <script
                                           src="https://code.jquery.com/jquery-3.5.1.min.js"
crossorigin="anonymous"></script>
     <script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.bundle.min.js"
crossorigin="anonymous"></script>
     <script src="js/scripts.js"></script>
  </body>
</html>
```

# **BASE1.HTML**

```
{% load static %}
<!DOCTYPE html>
<html lang="en">
```

```
<head>
    <meta charset="utf-8"/>
     <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no"</pre>
/>
    <meta name="description" content="" />
     <meta name="author" content="" />
     <title>Page Title - SB Admin</title>
    k rel="stylesheet" type="text/css" href="{% static 'registration.css' %}">
               src="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.13.0/js/all.min.js"
     <script
crossorigin="anonymous"></script>
  </head>
  <body>
  <div class="messages" id="alert-message">
 {% for message in messages %}
 <div class="alert alert-{{ message.tags }} mb-0 alert-dismissible fade show" role="alert">
  <strong>Message :</strong>{{ message }}
  <button type="button" class="close" data-dismiss="alert" aria-label="Close">
   <span aria-hidden="true">&times;</span>
  </button>
 </div>
 {% endfor %}
</div>
{% block body %}
 {% endblock body %}
```

```
<div id="layoutAuthentication_footer">
        <footer class="py-4 bg-light mt-auto">
          <div class="container-fluid">
             <div class="d-flex align-items-center justify-content-between small">
               <div class="text-muted">Copyright &copy; Your Website 2020</div>
               <div>
                 <a href="#">Privacy Policy</a>
                 ·
                 <a href="#">Terms & Conditions</a>
               </div>
             </div>
          </div>
        </footer>
     </div>
   </div>
   <script type="text/javascript" src="http://code.jquery.com/jquery-latest.js"></script>
 <script type="text/javascript">
 $(function(){
 setTimeout(function(){
   $("#alert-message").hide();
   }, 2000);
  });
 </script>
```

### **BASE2.HTML**

```
src="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.13.0/js/all.min.js"
    <script
crossorigin="anonymous"></script>
  </head>
  <body>
{% block body %}
 {% endblock body %}
 <div id="layoutAuthentication_footer">
         <footer class="py-4 bg-light mt-auto">
           <div class="container-fluid">
              <div class="d-flex align-items-center justify-content-between small">
                <div class="text-muted">Copyright &copy; Your Website 2020</div>
                <div>
                   <a href="#">Privacy Policy</a>
                   ·
                  <a href="#">Terms & Conditions</a>
                </div>
              </div>
           </div>
         </footer>
       </div>
    </div>
    <script type="text/javascript" src="http://code.jquery.com/jquery-latest.js"></script>
  <script type="text/javascript">
  $(function(){
  setTimeout(function(){
```

### TABLES.HTML

```
<meta name="author" content="" />
    <title>Tables - SB Admin</title>
    k rel="stylesheet" type="text/css" href="{% static 'home.css' %}">
    link
                href="https://cdn.datatables.net/1.10.20/css/dataTables.bootstrap4.min.css"
rel="stylesheet" crossorigin="anonymous" />
    <script
              src="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.13.0/js/all.min.js"
crossorigin="anonymous"></script>
  </head>
  <body class="sb-nav-fixed">
    <nav class="sb-topnav navbar navbar-expand navbar-dark bg-dark">
      <a class="navbar-brand" href="index.html">Start Bootstrap</a>
      <br/>
<br/>
<br/>
der-lg-0" id="sidebarToggle" <br/>
<br/>
order-lg-0" id="sidebarToggle"
href="#"><i class="fas fa-bars"></i></button>
      <!-- Navbar Search-->
      <form class="d-none d-md-inline-block form-inline ml-auto mr-0 mr-md-3 my-2 my-</pre>
md-0" method="POST">
      {% csrf_token %}
        <div class="input-group">
        </div>
      </form>
      <!-- Navbar-->
```

```
<a class="nav-link dropdown-toggle" id="userDropdown" href="#"
  role="button"
                     data-toggle="dropdown"
                                                  aria-haspopup="true"
                                                                            aria-
  expanded="false"><i class="fas fa-user fa-fw"></i></a>
      <div
                  class="dropdown-menu
                                               dropdown-menu-right"
                                                                            aria-
  labelledby="userDropdown">
         <a class="dropdown-item" href="#">Settings</a>
         <a class="dropdown-item" href="#">Activity Log</a>
         <div class="dropdown-divider"></div>
         <a class="dropdown-item" href="/handleLogout">Logout</a>
      </div>
    </nav>
<div id="layoutSidenav">
  <div id="layoutSidenav_nav">
    <nav class="sb-sidenav accordion sb-sidenav-dark" id="sidenavAccordion">
      <div class="sb-sidenav-menu">
        <div class="nav">
           <div class="sb-sidenav-menu-heading">Core</div>
           <a class="nav-link" href="/index">
                          class="sb-nav-link-icon"><i class="fas fa-tachometer-
                    <div
  alt"></i></div>
             Dashboard
           </a>
           <div class="sb-sidenav-menu-heading">Interface</div>
```

<div>

<a class="nav-link" href="/profile">

<i class="glyphicon glyphicon-user"></i>

PROFILE</a>

<div class="sb-sidenav-menu-heading">Interface</div>

<a class="nav-link collapsed" href="#" data-toggle="collapse" data-target="#collapsePages" aria-expanded="false" aria-controls="collapsePages">

<div class="sb-nav-link-icon"><i class="fas fa-book-open"></i></div>

#### **RECORD**

</a>

<a class="nav-link " href="/weekly">

#### WEEKLY RECORD

</a>

<a class="nav-link " href="/stats" >

#### MONTHLY RECORD

```
</a>
       </nav>
     </div>
     <div class="sb-sidenav-menu-heading">Addons</div>
     {% comment %} <a class="nav-link" href="charts.html">
       <div class="sb-nav-link-icon"><i class="fas fa-chart-area"></i></div>
       Charts
     </a> {% endcomment %}
     <a class="nav-link" href="/info">
       <div class="sb-nav-link-icon"><i class="fas fa-table"></i></div>
      Yearly Record
     </a>
     <a class="nav-link" href="/tables">
       <div class="sb-nav-link-icon"><i class="fas fa-table"></i></div>
       History
    </a>
  </div>
</div>
<br>>
<br>>
<br>>
\langle br \rangle
<br>>
<div class="sb-sidenay-footer">
```

```
<div class="small">Logged in as:</div>
      {{request.user.username}}
    </div>
  </nav>
</div>
<div id="layoutSidenav_content">
  <main>
    <div class="container-fluid">
      <h1 class="mt-4">History</h1>

    class="breadcrumb mb-4">

        class="breadcrumb-item"><a href="/index">Dashboard</a>
        HISTORY
      <form action="/search/" method="get">
       From: <input type="date" name="fromdate" required/>
        To: <input type="date" name="todate" required/>
        {% csrf_token %}
        <input type="submit" value="search"/>
               <a href="{% url 'tables' %}" class="btn btn-success" role="button"
aria-pressed="true" style="height:32px;width:100px">Search all</a>
        </a>
        </form>
        <br/>br/>
        <br>
      <div class="card mb-4">
```

```
<div class="card-header">
         <i class="fas fa-table mr-1"></i>
         DataTable
       </div>
       <div class="card-body">
         <div class="table-responsive">
                                     table-bordered"
                                                    id="dataTable"
                <table
                        class="table
width="100%" cellspacing="0">
            <thead>
               What you added
                Amount
                Category
                Date
               </thead>
         {% for money in addmoney %}
         {{money.add_money}}
                {td>{{money.quantity}}}
                {td>{{money.Category}}
                {\{money.Date\}}
               {% endfor%}
```

```
</div>
                </div>
              </div>
            </div>
         </main>
                                          src="https://code.jquery.com/jquery-3.5.1.min.js"
    <script
crossorigin="anonymous"></script>
    <script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.bundle.min.js"
crossorigin="anonymous"></script>
    <script src="js/scripts.js"></script>
    <script
                         src="https://cdn.datatables.net/1.10.20/js/jquery.dataTables.min.js"
crossorigin="anonymous"></script>
     <script
                     src="https://cdn.datatables.net/1.10.20/js/dataTables.bootstrap4.min.js"
crossorigin="anonymous"></script>
    <script src="assets/demo/datatables-demo.js"></script>
  </body>
</html>
```

### ADDMMONEY.HTML

```
{% load static%}
<!DOCTYPE html>
<html lang="en">
<head>
       {% comment %}
       link rel="stylesheet" type="text/css" href=try.css> {% endcomment %}
      k rel="stylesheet" type="text/css" href="{% static 'addmoney.css' %}">
       k rel="preconnect" href="https://fonts.gstatic.com">
       link
                    href="https://fonts.googleapis.com/css2?family=Anton&display=swap"
rel="stylesheet">
       <title>My Wallet</title>
</head>
<body>
       <div class="bg-image"></div>
       <div class="bg-text">
       <div id="layoutAuthentication">
       <div id="layoutAuthentication_content">
       <main>
       <div class="container2">
       <div class="row justify-content-center">
```

```
<div class="col-lg-5">
<div class="card shadow-lg border-0 rounded-lg mt-5">
<div class="card-header">
<h1 class="text-center font-weight-light my-4">My Wallet</h1>
</div>
<form method="post" action="/addmoney_submission/">
{% csrf_token %}
<div class="form-check">
What you want to add?<br>
<label class="form-check-label" for="add_money">
<input class="form-check-input" type="radio" name="add_money"
id="add_money" value="Expense" checked required>
             Expense</label>
<label class="form-check-label" for="add_money">
            class="form-check-input"
                                          type="radio"
                                                            name="add_money"
<input
id="add_money" value="Income" checked required>Income</label>
</div>
<div><label for="quantity">Amount:</label><br>
<input type="number" name="quantity" required><br><br>
</div>
<div>
<label>
Expense Date:
<input type="date" name="Date">
```

```
</label><br>
</div>
<div>
<div class="f1">
      Select category-<br>
<select class="Category" name="Category" required><br>
<option value="Food">Food</option>
<option value="Travel">Travel</option>
<option value="Shopping">shopping</option>
<option value="Necessities">Necessities</option>
<option value="Entertainment">Entertainment</option>
<option value="Others">Others
</select><br>
</div>
</div>
<div class="btn">
<button type="submit" class="b2" href='/addmoney'> Submit </button>
```

```
</div>
<!--<input type="button" class="b2" onclick="location.href='/addmoney""
value="submit!">-->

</form>

</div>
</div></div>
</div>
```

# **REGISTER.HTML**

```
{% extends 'base1.html' %}
{% block body %}
<div class="bg-image"></div>
<div class="bg-text">
  <body class="bg-primary">
    <div id="layoutAuthentication">
       <div id="layoutAuthentication_content">
         <main>
           <div class="container" style="margin-bottom:15px;">
              <div class="row justify-content-center">
                <div class="col-lg-7">
                   <div class="card shadow-lg border-0 rounded-lg mt-5">
                     <div class="card-header"><h1 class="text-center font-weight-light my-</pre>
4">Expense Tracker by-DataFlair Create Account</h1></div>
                     <div class="card-body">
                       <form action="/handleSignup/" method='post'>
                       {% csrf_token %}
                          <div class="form-row">
                            <div class="col-md-6">
                              <div class="form-group">
                                 <label
                                           class="small
                                                           mb-1"
                                                                      for="uname">User
Name</label>
                                 <input
                                           class="form-control
                                                                   py-4"
                                                                             id="uname"
name="uname" type="text" placeholder="Enter User Name" required/>
                              </div>
```

```
</div>
                                                                                               </div>
                                                                                                <div class="form-row">
                                                                                                       <div class="col-md-6">
                                                                                                                <div class="form-group">
                                                                                                                        <label class="small mb-1" for="inputFirstName">First
Name</label>
                                                                                                                        <input
                                                                                                                                                               class="form-control
                                                                                                                                                                                                                                                     py-4"
                                                                                                                                                                                                                                                                                        id="fname"
name="fname" type="text" placeholder="Enter first name" />
                                                                                                                </div>
                                                                                                       </div>
                                                                                                       <div class="col-md-6">
                                                                                                                <div class="form-group">
                                                                                                                        <last <a href="last"><last <a href="last">Last</a> <a 
Name</label>
                                                                                                                        <input
                                                                                                                                                               class="form-control
                                                                                                                                                                                                                                                     py-4"
                                                                                                                                                                                                                                                                                         id="lname"
name="lname" type="text" placeholder="Enter last name" />
                                                                                                                </div>
                                                                                                       </div>
                                                                                               </div>
                                                                                               <div class="form-group">
                                                                                                                                                                                              class="small
                                                                                                       <label
                                                                                                                                                                                                                                                                                                            mb-1"
for="inputEmailAddress">Email</label>
                                                                                                       <input class="form-control py-4" id="email" name="email"</pre>
type="email" aria-describedby="emailHelp" placeholder="Enter email address" required />
```

```
</div>
                         <div class="form-row">
                           <div class="col-md-6">
                             <div class="form-group">
                               <label
                                                    class="small
                                                                              mb-1"
for="inputprofession">Profession</label>
                                                                              style="
                                        name="profession"
                                                            id="profession"
                               <select
width:250px;height: 25px">
                                 <option value="Employee">Employee</option>
                                 <option value="Business">Business
                                 <option value="Student">Student
                                 <option value="Other">Other</option>
                               </select>
                             </div>
                           </div>
                         </div>
                         <div class="form-row">
                           <div class="col-md-6">
                             <div class="form-group">
                               <label
                                                    class="small
                                                                              mb-1"
for="inputincome">Income</label>
                               <input
                                         class="form-control
                                                               py-4"
                                                                         id="income"
name="income" type="text" placeholder="Income" required/>
                             </div>
```

```
</div>
                         </div>
                         <div class="form-row">
                            <div class="col-md-6">
                              <div class="form-group">
                                                      class="small
                                <label
                                                                                 mb-1"
for="inputsavings">savings</label>
                                                                           id="Savings"
                                          class="form-control
                                                                 py-4"
                                <input
name="Savings" type="text" placeholder="Amount to be saved" required />
                              </div>
                            </div>
                         </div>
                         <div class="form-row">
                            <div class="col-md-6">
                              <div class="form-group">
                                                      class="small
                                                                                 mb-1"
                                <label
for="inputPassword">Password</label>
                                           class="form-control
                                                                             id="pass1"
                                <input
                                                                   py-4"
name="pass1" type="password" placeholder="Enter password" required />
                              </div>
                            </div>
                            <div class="col-md-6">
                              <div class="form-group">
                                                      class="small
                                <label
                                                                                 mb-1"
for="inputConfirmPassword">Confirm Password</label>
```

```
<input
                                          class="form-control
                                                                 py-4"
                                                                           id="pass2"
name="pass2" type="password" placeholder="Confirm password" required />
                             </div>
                           </div>
                         </div>
                         <div class = "btn">
                         <div class="form-group mt-4 mb-0"><button type="submit"</pre>
class="btn btn-primary btn-block mt-2">Create User</button></div></div>
                    <div class="card-footer text-center">
                      <div class="small"><a href="/">Have an account? Go to
login</a></div>
                    </div>
                       </form>
                    </div>
                  </div>
                </div>
             </div>
           </div>
         </main>
      </div>
  </div>
  </body>
</html>
{% endblock body %}
```

# **LOGIN.HTML**

```
{% extends 'base.html' %}
{% block body %}
<div class="bg-image"></div>
<div class="bg-text">
  <body class="bg-primary">
    <div id="layoutAuthentication">
       <div id="layoutAuthentication_content">
         <main>
            <div class="container">
              <div class="row justify-content-center">
                <div class="col-lg-5">
                   <div class="card shadow-lg border-0 rounded-lg mt-5">
                     <div class="card-header"><h3 class="text-center font-weight-light my-</pre>
4">Expense Tracker by DataFlair-Login</h3></div>
                     <div class="card-body">
                        <form action='/handlelogin/' method='post'>
                        {% csrf_token %}
                          <div class="form-group">
                            <label
                                                    class="small
                                                                                   mb-1"
for="loginuname">Username</label>
```

```
<input
                                       class="form-control
                                                              py-4"
                                                                        id="loginuname"
name="loginuname" type="text" placeholder="Enter user name" required/>
                          </div>
                          <div class="form-group">
                                                    class="small
                                                                                  mb-1"
                            <label
for="loginpassword1">Password</label>
                                     class="form-control
                                                           py-4"
                                                                    id="loginpassword1"
                            <input
name="loginpassword1" type="password" placeholder="Enter password" required/>
                          </div>
                          <div class="form-group">
                            <div class="custom-control custom-checkbox">
                              <input
                                                             class="custom-control-input"
id="rememberPasswordCheck" type="checkbox" reqired />
                              <label
                                                             class="custom-control-label"
for="rememberPasswordCheck">Remember password</label>
                            </div>
                          </div>
                          <div class="form-group d-flex align-items-center justify-content-</pre>
between mt-4 mb-0">
                            <div class="btnn">
                            <button type="submit" class="btn">Login</button><br>
</div>
<div class="link">
<a class="small" href="\reset_password">Forgot Password?</a><br/>br>
                   <div class="card-footer text-center">
```

## **MANAGE.PY**

```
"""Django's command-line utility for administrative tasks."""

import os

import sys

def main():

os.environ.setdefault('DJANGO_SETTINGS_MODULE', 'ExpenseTracker.settings')

try:

from django.core.management import execute_from_command_line

except ImportError as exc:
```

```
raise ImportError(

"Couldn't import Django. Are you sure it's installed and "

"available on your PYTHONPATH environment variable? Did you "

"forget to activate a virtual environment?"

) from exc

execute_from_command_line(sys.argv)

if __name__ == '__main__':

main()
```

### **VIEWS.PY**

from django.shortcuts import render,HttpResponse,redirect
from django.contrib import messages
from django.contrib.auth import authenticate ,logout
from django.contrib.auth import login as dj\_login
from django.contrib.auth.models import User
from .models import Addmoney\_info,UserProfile
from django.contrib.sessions.models import Session
from django.core.paginator import Paginator, EmptyPage , PageNotAnInteger
from django.db.models import Sum
from django.http import JsonResponse
import datetime
from django.utils import timezone
def home(request):

```
if request.session.has_key('is_logged'):
     return redirect('/index')
  return render(request, 'home/login.html')
def index(request):
  if request.session.has_key('is_logged'):
     user_id = request.session["user_id"]
     user = User.objects.get(id=user_id)
     addmoney_info = Addmoney_info.objects.filter(user=user).order_by('-Date')
     paginator = Paginator(addmoney_info , 4)
     page_number = request.GET.get('page')
     page_obj = Paginator.get_page(paginator,page_number)
     context = {
      'page_obj' : page_obj
     }
     return render(request, home/index.html',context)
  return redirect('home')
def register(request):
  return render(request, 'home/register.html')
def password(request):
  return render(request, 'home/password.html')
def charts(request):
  return render(request, 'home/charts.html')
def search(request):
  if request.session.has_key('is_logged'):
```

```
user_id = request.session["user_id"]
     user = User.objects.get(id=user_id)
     fromdate = request.GET['fromdate']
     todate = request.GET['todate']
     addmoney
                                                     Addmoney_info.objects.filter(user=user,
Date__range=[fromdate,todate]).order_by('-Date')
     return render(request, 'home/tables.html', { 'addmoney':addmoney })
  return redirect('home')
def tables(request):
  if request.session.has_key('is_logged'):
     user_id = request.session["user_id"]
     user = User.objects.get(id=user_id)
     fromdate = request.POST.get('fromdate')
     todate = request.POST.get('todate')
     addmoney = Addmoney_info.objects.filter(user=user).order_by('-Date')
     return render(request, home/tables.html', {'addmoney':addmoney})
  return redirect('home')
def addmoney(request):
  return render(request, 'home/addmoney.html')
def profile(request):
  if request.session.has_key('is_logged'):
     return render(request, 'home/profile.html')
  return redirect('/home')
def profile_edit(request,id):
  if request.session.has key('is logged'):
```

```
add = User.objects.get(id=id)
    return render(request, home/profile_edit.html', {'add':add})
  return redirect("/home")
def profile_update(request,id):
  if request.session.has_key('is_logged'):
    if request.method == "POST":
       user = User.objects.get(id=id)
       user.first_name = request.POST["fname"]
       user.last_name = request.POST["lname"]
       user.email = request.POST["email"]
       user.userprofile.Savings = request.POST["Savings"]
       user.userprofile.income = request.POST["income"]
       user.userprofile.profession = request.POST["profession"]
       user.userprofile.save()
       user.save()
       return redirect("/profile")
  return redirect("/home")
def handleSignup(request):
  if request.method =='POST':
       # get the post parameters
       uname = request.POST["uname"]
       fname=request.POST["fname"]
       lname=request.POST["lname"]
       email = request.POST["email"]
```

```
profession = request.POST['profession']
       Savings = request.POST['Savings']
       income = request.POST['income']
       pass1 = request.POST["pass1"]
       pass2 = request.POST["pass2"]
       profile = UserProfile(Savings = Savings,profession=profession,income=income)
       # check for errors in input
       if request.method == 'POST':
         try:
            user_exists = User.objects.get(username=request.POST['uname'])
            messages.error(request," Username already taken, Try something else!!!")
            return redirect("/register")
         except User.DoesNotExist:
            if len(uname)>15:
              messages.error(request," Username must be max 15 characters, Please try
again")
              return redirect("/register")
            if not uname.isalnum():
              messages.error(request," Username should only contain letters and numbers,
Please try again")
              return redirect("/register")
            if pass1 != pass2:
              messages.error(request," Password do not match, Please try again")
              return redirect("/register")
       user = User.objects.create_user(uname, email, pass1)
```

```
user.first_name=fname
       user.last_name=lname
       user.email = email
       user.save()
       profile.user = user
       profile.save()
       messages.success(request," Your account has been successfully created")
       return redirect("/")
  else:
    return HttpResponse('404 - NOT FOUND')
  return redirect('/login')
def handlelogin(request):
  if request.method == 'POST':
    loginuname = request.POST["loginuname"]
    loginpassword1=request.POST["loginpassword1"]
    user = authenticate(username=loginuname, password=loginpassword1)
    if user is not None:
       dj_login(request, user)
       request.session['is_logged'] = True
       user = request.user.id
       request.session["user_id"] = user
       messages.success(request, "Successfully logged in")
       return redirect('/index')
    else:
```

```
messages.error(request," Invalid Credentials, Please try again")
       return redirect("/")
  return HttpResponse('404-not found')
def handleLogout(request):
    del request.session['is_logged']
    del request.session["user_id"]
    logout(request)
    messages.success(request, "Successfully logged out")
    return redirect('home')
def addmoney_submission(request):
  if request.session.has_key('is_logged'):
    if request.method == "POST":
       user_id = request.session["user_id"]
       user1 = User.objects.get(id=user_id)
       addmoney_info1 = Addmoney_info.objects.filter(user=user1).order_by('-Date')
       add_money = request.POST["add_money"]
       quantity = request.POST["quantity"]
       Date = request.POST["Date"]
       Category = request.POST["Category"]
       add = Addmoney_info(user = user1,add_money=add_money,quantity=quantity,Date =
Date, Category = Category)
       add.save()
       paginator = Paginator(addmoney_info1, 4)
       page_number = request.GET.get('page')
       page_obj = Paginator.get_page(paginator,page_number)
```

```
context = {
         'page_obj': page_obj
          }
       return render(request, home/index.html',context)
  return redirect('/index')
def addmoney_update(request,id):
  if request.session.has_key('is_logged'):
    if request.method == "POST":
       add = Addmoney_info.objects.get(id=id)
       add .add_money = request.POST["add_money"]
       add.quantity = request.POST["quantity"]
       add.Date = request.POST["Date"]
       add.Category = request.POST["Category"]
       add .save()
       return redirect("/index")
  return redirect("/home")
def expense_edit(request,id):
  if request.session.has_key('is_logged'):
    addmoney_info = Addmoney_info.objects.get(id=id)
    user_id = request.session["user_id"]
    user1 = User.objects.get(id=user_id)
    return render(request, home/expense_edit.html', {'addmoney_info':addmoney_info})
  return redirect("/home")
def expense_delete(request,id):
```

```
if request.session.has_key('is_logged'):
    addmoney_info = Addmoney_info.objects.get(id=id)
    addmoney_info.delete()
    return redirect("/index")
  return redirect("/home")
def expense_month(request):
  todays_date = datetime.date.today()
  one_month_ago = todays_date-datetime.timedelta(days=30)
  user_id = request.session["user_id"]
  user1 = User.objects.get(id=user_id)
  addmoney
                                         Addmoney_info.objects.filter(user
user1,Date__gte=one_month_ago,Date__lte=todays_date)
  finalrep = { }
  def get_Category(addmoney_info):
    return addmoney_info.Category
  Category_list = list(set(map(get_Category,addmoney)))
  def get_expense_category_amount(Category,add_money):
    quantity = 0
    filtered_by_category = addmoney.filter(Category = Category,add_money="Expense")
    for item in filtered_by_category:
       quantity+=item.quantity
    return quantity
  for x in addmoney:
    for y in Category_list:
       finalrep[y]= get_expense_category_amount(y, "Expense")
```

=

```
return JsonResponse({'expense_category_data': finalrep}, safe=False)
def stats(request):
  if request.session.has_key('is_logged'):
    todays_date = datetime.date.today()
    one_month_ago = todays_date-datetime.timedelta(days=30)
    user_id = request.session["user_id"]
    user1 = User.objects.get(id=user_id)
                                            Addmoney_info.objects.filter(user
    addmoney_info
user1,Date__gte=one_month_ago,Date__lte=todays_date)
    sum = 0
    for i in addmoney_info:
       if i.add_money == 'Expense':
         sum=sum+i.quantity
    addmoney_info.sum = sum
    sum1 = 0
    for i in addmoney_info:
       if i.add_money == 'Income':
         sum1 =sum1+i.quantity
    addmoney_info.sum1 = sum1
    x= user1.userprofile.Savings+addmoney_info.sum1 - addmoney_info.sum
    y= user1.userprofile.Savings+addmoney_info.sum1 - addmoney_info.sum
    if x<0:
       messages.warning(request, 'Your expenses exceeded your savings')
       \mathbf{x} = \mathbf{0}
    if x>0:
```

```
y = 0
    addmoney_info.x = abs(x)
    addmoney_info.y = abs(y)
    return render(request, 'home/stats.html', { 'addmoney':addmoney_info })
def expense_week(request):
  todays_date = datetime.date.today()
  one_week_ago = todays_date-datetime.timedelta(days=7)
  user_id = request.session["user_id"]
  user1 = User.objects.get(id=user_id)
                                         Addmoney_info.objects.filter(user
  addmoney
user1,Date__gte=one_week_ago,Date__lte=todays_date)
  finalrep = \{ \}
  def get_Category(addmoney_info):
    return addmoney_info.Category
  Category_list = list(set(map(get_Category,addmoney)))
  def get_expense_category_amount(Category,add_money):
    quantity = 0
    filtered_by_category = addmoney.filter(Category = Category,add_money="Expense")
    for item in filtered_by_category:
       quantity+=item.quantity
    return quantity
  for x in addmoney:
    for y in Category_list:
       finalrep[y]= get_expense_category_amount(y, "Expense")
  return JsonResponse({'expense category data': finalrep}, safe=False)
```

```
def weekly(request):
  if request.session.has_key('is_logged'):
    todays_date = datetime.date.today()
    one_week_ago = todays_date-datetime.timedelta(days=7)
    user_id = request.session["user_id"]
    user1 = User.objects.get(id=user_id)
    addmoney_info
                                           Addmoney_info.objects.filter(user
user1,Date__gte=one_week_ago,Date__lte=todays_date)
    sum = 0
    for i in addmoney_info:
       if i.add_money == 'Expense':
         sum=sum+i.quantity
    addmoney_info.sum = sum
    sum1 = 0
    for i in addmoney_info:
       if i.add_money == 'Income':
         sum1 = sum1+i.quantity
    addmoney_info.sum1 = sum1
    x= user1.userprofile.Savings+addmoney_info.sum1 - addmoney_info.sum
    y= user1.userprofile.Savings+addmoney_info.sum1 - addmoney_info.sum
    if x<0:
       messages.warning(request, 'Your expenses exceeded your savings')
       x = 0
    if x>0:
       y = 0
```

```
addmoney\_info.x = abs(x)
    addmoney_info.y = abs(y)
  return render(request, 'home/weekly.html', { 'addmoney_info':addmoney_info})
def check(request):
  if request.method == 'POST':
    user_exists = User.objects.filter(email=request.POST['email'])
    messages.error(request, "Email not registered, TRY AGAIN!!!")
    return redirect("/reset_password")
def info_year(request):
  todays_date = datetime.date.today()
  one_week_ago = todays_date-datetime.timedelta(days=30*12)
  user_id = request.session["user_id"]
  user1 = User.objects.get(id=user_id)
                                         Addmoney_info.objects.filter(user
  addmoney
user1,Date__gte=one_week_ago,Date__lte=todays_date)
  finalrep = { }
  def get_Category(addmoney_info):
    return addmoney_info.Category
  Category_list = list(set(map(get_Category,addmoney)))
  def get_expense_category_amount(Category,add_money):
    quantity = 0
    filtered_by_category = addmoney.filter(Category = Category,add_money="Expense")
    for item in filtered_by_category:
       quantity+=item.quantity
    return quantity
```

```
for x in addmoney:

for y in Category_list:

finalrep[y]= get_expense_category_amount(y,"Expense")

return JsonResponse({'expense_category_data': finalrep}, safe=False)

def info(request):

return render(request, 'home/info.html')
```