About the Project

This project aims to build an Expense Tracker based on GUI. In order to build this, we will require an intermediate knowledge and understanding of the Tkinter library, SQL language and its commands, and fundamental knowledge of different modules of the Tkinter library and the **tkcalendar** library.

## Prerequisites of the Project

There are some libraries and modules that we will need in the creation of the GUI Assistant Application in Python. These modules are briefly described as follows:

1. **Tkinter:**The **tkinter** module will help us provide the Graphical User Interface (GUI) to the application.
2. **Tkcalendar:**The **tkcalendar** module will help us to work with the drop-down calendar.
3. **SQLite:** The **sqlite** module will allow us to connect the Python script to the SQL database.
4. **Datetime:** The datetime module will allow to work with date and time.

Since **Tkinter, Datetime**, and **SQLite** come as preinstalled modules in Python, there is no need to install them manually. However, we only require installing the **Tkcalendar** module.

The **tkcalendar** module can be installed using the **PIP** installer by typing the following command in a command prompt or terminal.

## Steps for building the Expense Tracker

In order to build the **Expense Tracker** in Python, we will create an empty folder and name it "**Expense Tracker**". Within this folder, we will create a Python program file as "**main.py**", where we will write the entire code of the project.

We have divided the complete project code for creating the Expense Tracker in Python into several steps for better understanding. These steps are shown below:

**Step 1:** Importing the necessary modules.

**Step 2:** Creating the database and defining functions to manipulate the data.

**Step 3:** Connecting to the database and creating the main window of the application.

**Step 4:** Adding necessary widgets to the window and setting the event triggers.

Let us understand the steps mentioned above in a more elaborate way.

### **Importing the necessary modules**

At first, we will start by importing all the required modules, which include all the widgets and modules from the **tkinter** module, the **DateEntry** class from the **tkcalendar** library, and the **datetime** and **sqlite3** modules.

### **Creating the Database and Defining the necessary Functions**

Now that we have imported all the necessary modules to the project, it is time to create the database and define various functions implementing different operations in the application. These functions include retrieving the data from the database and listing them in the table, viewing a record from the data table, resetting the entry fields, removing a selected record from the database, deleting all the records from the database, adding a new record to the database, updating the details of the pre-existing record in the database, and displaying the record details in text format

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* Access, submit, and approve invoices **irrespective of time and location**.
* **Avoid data loss** by scanning your tickets and bills and saving in the app.
* **Approval of bills and expenditures in real-time** and get notified instantly.