**Mini-Project Synopsis**

**Advanced Programming Lab (ICT 3166)**

1. **Project Title:** Expense Tracker: A Python-based Expense Management Application
2. **Team Members:**

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1. **Abstract**

The project aims to develop an Expense Tracker application using Python, allowing users to record and manage their daily expenses efficiently. The application provides features such as adding expenses, categorizing them, and generating reports to give users insights into their spending habits.

1. **Project Details:**

The Expense Tracker application will have a user-friendly interface that allows users to input their expenses, categorize them based on types (e.g., food, transportation, bills), and view summaries of their spending. The data will be stored in an SQLite database for easy retrieval and management. Expenditure report can also be obtained in a file format.

1. **Expected Result:**

The expected result is a fully functional Expense Tracker application that allows users to monitor their expenses, categorize them, view spending trends, and make informed financial decisions.

1. **Python Concepts used:**

* Graphical User Interface (GUI) using tkinter for the application's frontend.
* SQLite for database management and storage of expense data.
* Visualization to represent expenses using Matplotlib library
* File handling for reading and writing data to external files.
* Error handling to enhance the robustness of the application.