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| **expense manager** | | | |
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| **IMPLEMENTATION:**  * CLASSES AND OBJECTS * DATE AND TIME IMPORTING * LISTS * DICTIONARIES * BAR GRAPH AND PIECHART PLOTTING * FILE HANDLING   **CONTRIBUTION:**   * **AAKASH VELUSAMY:** * EXPENSE TRACKING * SEARCH FUNCTIONALITY * FILE HANDLING * **KABILAN S:** * VISUALIZATION TOOLS * CATEGORY MANAGEMENT * OVERALL INTEGRATION |  | | **ABSTRACT:** The ExpenseManager class offers a robust solution for individuals looking to take control of their personal finances. The class is designed to facilitate the organization and monitoring of expenses across various categories, such as food, entertainment, transportation, and others. Users can add new expenses, edit existing entries, or delete them as needed, ensuring their records remain up to date and accurate.  Key features of the Expense Manager include:  1. Expense Tracking: Users can track daily, monthly, and yearly expenses, enabling them to monitor spending over time and make informed financial decisions.  2. Category Management: Expenses can be categorized, allowing for a more detailed analysis of spending habits and patterns within different areas of life.  3. Spending Limits: Users can set daily, monthly, and yearly spending limits to help maintain budgetary discipline. The class provides warnings if these limits are exceeded.  4. File Data Persistence: The class supports saving and loading expenses from a file, allowing users to retain their data across sessions.  5. Interactive Interface: The Expense Manager provides a menu-driven user interface, making it easy for users to navigate its features and manage their finances effectively.  6. Visualization Tools: Users can generate visualizations, such as pie charts and bar graphs, to better understand their spending patterns across different categories and time periods.  7. Search Functionality: The class offers the ability to search for expenses by date, category, or time period, allowing users to quickly locate specific transactions.  Overall, the Expense Manager class serves as an intuitive and comprehensive tool for individuals seeking to gain better insight into their financial health and habits. Its variety of features and customizable options make it a valuable asset for personal financial management. |
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