**Financial Tracking APP – FinCatcher - Python Project**

**FinCatcher Concept:**

"FinCatcher" encapsulates the idea of actively gathering and managing financial elements, ensuring nothing slips through unnoticed. Much like a dream catcher filters out unwanted dreams while allowing good ones to pass, a FinCatcher can symbolize discerning financial decisions—capturing beneficial financial actions and organizing them in a harmonious way. It suggests vigilance and intentionality in financial management.

**Web Application Architecture**

The FinCatcher web application follows a typical Model-View-Controller (MVC) architecture, which helps in the separation of concerns. It is built using the Flask framework, which provides a lightweight and flexible structure for web development.

* Model: Represents the application's data and business logic. It interacts with the database using SQLAlchemy, an ORM (Object Relational Mapper).
* View: Responsible for rendering the user interface. It uses Jinja2 templates to dynamically generate HTML based on the data provided by the controllers.
* Controller: Manages the flow of data between the model and the view. It handles user requests, processes them, and returns the appropriate response.

**Database Design**

The application uses SQLite, a relational database, to store and manage data. The following tables are defined in the database schema:

* + User (user\_id, user\_name, user\_email, user\_password)
  + Transactions (id, date, amount, category\_id, description, type, user\_id)
  + Categories (id, name, description, user\_id)
  + Budgets (id, name, monthly\_limit, category\_id, user\_id)
  + Goals (id, name, target\_amount, target\_date, current\_amount, category\_id, user\_id)

**User Interface (Web Pages)**

The user interface (UI) is designed to be intuitive and user-friendly, with a focus on providing easy navigation and accessibility. Key components of the UI include:

* **Overview:** A general summary of the user's financial status and activities.
* **Transactions:** Pages for adding, editing, and deleting transactions, as well as viewing transaction history.
* **Categories:** Pages for managing categories, including adding, editing, and deleting categories.
* **Budgets:** Pages for setting, viewing, and adjusting budgets.
* **Goals:** Pages for creating and displaying financial goals.
* **Help:** A help page to guide users in using the application.
* **Register/Login:** Authentication pages for user registration and login.

**Functionality**

The FinCatcher application provides a range of functionalities to help users manage their finances effectively. These include:

* **User Authentication:** Registration, login, and logout functionalities to secure user data.
* **Graphical Reports:** Visualization of financial data through charts and graphs.
* **Transaction Management:** Adding, editing, and deleting financial transactions.
* **Budget Management:** Setting, viewing, and adjusting monthly budgets.
* **Goals Management:** Creating and displaying financial goals.
* **Category Management:** Adding, editing, and deleting categories.
* **Data Persistence:** Storing financial data in the SQLite database.
* **Data Export:** Downloading transaction data as a CSV file.
* **Notifications and Reminders:** Implement push notifications and reminders for budget limits and goal deadlines.

**Future Improvements**

To enhance the functionality and user experience of the FinCatcher application, the following future improvements are suggested:

* **Multi-currency Support:** Allow users to manage finances in multiple currencies.
* **Add Wallet Page**: Introduce a wallet page where users can manage their cash, debit cards, and credit cards all in one place.
* **Admin Approval for Category Management**: Implement a feature that requires admin approval for editing or deleting categories, ensuring better control and oversight.
* **PDF Export Functionality**: Provide an option to export data in PDF format for easy sharing and documentation.
* **Advanced Analytics:** Provide more detailed financial analytics and insights.
* **Machine Learning Integration**: Utilize machine learning algorithms to predict future expenses or suggest budget adjustments.

**Pycharm project structure:**

**A screenshot of a computer

AI-generated content may be incorrect.**

**DATABASE INSERTS FOR USER 1**

-- Inserts for January 2024

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (1, '2024-01-02', 150.0, 'Groceries', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (2, '2024-01-05', 50.0, 'Lunch with Friends', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (3, '2024-01-07', 1200.0, 'Rent', 'expense', 3, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (4, '2024-01-08', 3000.0, 'Salary', 'income', 4, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (5, '2024-01-10', 80.0, 'Electricity Bill', 'expense', 5, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (6, '2024-01-12', 100.0, 'Internet Bill', 'expense', 6, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (7, '2024-01-15', 75.0, 'Movie Tickets', 'expense', 7, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (8, '2024-01-17', 500.0, 'Freelance Project', 'income', 8, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (9, '2024-01-20', 300.0, 'Taxi Fare', 'expense', 9, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (10, '2024-01-22', 200.0, 'Groceries', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (11, '2024-01-25', 100.0, 'Doctor Visit', 'expense', 10, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (12, '2024-01-28', 150.0, 'Insurance Premium', 'expense', 11, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (13, '2024-01-30', 350.0, 'Textbooks', 'expense', 12, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (14, '2024-01-31', 200.0, 'Selling Old Stuff', 'income', 13, 1);

-- Inserts for February 2024

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (15, '2024-02-01', 150.0, 'Groceries', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (16, '2024-02-03', 70.0, 'Coffee Shop', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (17, '2024-02-05', 3000.0, 'Salary', 'income', 3, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (18, '2024-02-07', 90.0, 'Gas Bill', 'expense', 4, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (19, '2024-02-10', 100.0, 'Internet Bill', 'expense', 5, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (20, '2024-02-12', 1200.0, 'Rent', 'expense', 6, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (21, '2024-02-14', 50.0, 'Valentine\'s Day Gift', 'expense', 7, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (22, '2024-02-16', 250.0, 'Freelance Work', 'income', 8, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (23, '2024-02-18', 100.0, 'Groceries', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (24, '2024-02-20', 75.0, 'Dining Out', 'expense', 9, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (25, '2024-02-23', 100.0, 'Doctor Visit', 'expense', 10, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (26, '2024-02-25', 150.0, 'Insurance Premium', 'expense', 11, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (27, '2024-02-27', 500.0, 'Selling Old Electronics', 'income', 12, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (28, '2024-02-28', 200.0, 'Books', 'expense', 13, 1);

-- Inserts for March 2024

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (29, '2024-03-01', 150.0, 'Groceries', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (30, '2024-03-03', 80.0, 'Coffee Shop', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (31, '2024-03-05', 3000.0, 'Salary', 'income', 3, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (32, '2024-03-07', 120.0, 'Water Bill', 'expense', 4, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (33, '2024-03-09', 150.0, 'Dining Out', 'expense', 5, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (34, '2024-03-11', 200.0, 'Freelance Work', 'income', 6, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (35, '2024-03-13', 90.0, 'Gas Bill', 'expense', 7, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (36, '2024-03-15', 100.0, 'Internet Bill', 'expense', 8, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (37, '2024-03-17', 1200.0, 'Rent', 'expense', 9, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (38, '2024-03-19', 60.0, 'Cinema Tickets', 'expense', 10, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (39, '2024-03-21', 75.0, 'Fitness Class', 'expense', 11, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (40, '2024-03-23', 200.0, 'Groceries', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (41, '2024-03-25', 150.0, 'Insurance Premium', 'expense', 12, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (42, '2024-03-27', 500.0, 'Bonus', 'income', 13, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (43, '2024-03-29', 100.0, 'Doctor Visit', 'expense', 14, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (44, '2024-03-31', 200.0, 'Books', 'expense', 15, 1);

-- Inserts for April 2024

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (45, '2024-04-01', 150.0, 'Groceries', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (46, '2024-04-03', 70.0, 'Coffee Shop', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (47, '2024-04-05', 3000.0, 'Salary', 'income', 3, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (48, '2024-04-07', 100.0, 'Internet Bill', 'expense', 4, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (49, '2024-04-09', 200.0, 'Freelance Work', 'income', 5, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (50, '2024-04-11', 120.0, 'Water Bill', 'expense', 6, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (51, '2024-04-13', 90.0, 'Gas Bill', 'expense', 7, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (52, '2024-04-15', 1200.0, 'Rent', 'expense', 8, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (53, '2024-04-17', 60.0, 'Cinema Tickets', 'expense', 9, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (54, '2024-04-19', 75.0, 'Fitness Class', 'expense', 10, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (55, '2024-04-21', 150.0, 'Groceries', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (56, '2024-04-23', 500.0, 'Bonus', 'income', 11, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (57, '2024-04-25', 100.0, 'Doctor Visit', 'expense', 12, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (58, '2024-04-27', 150.0, 'Insurance Premium', 'expense', 13, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (59, '2024-04-29', 200.0, 'Books', 'expense', 14, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (60, '2024-04-30', 50.0, 'Lunch with Friends', 'expense', 15, 1);

-- Inserts for May 2024

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (61, '2024-05-01', 150.0, 'Groceries', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (62, '2024-05-03', 80.0, 'Coffee Shop', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (63, '2024-05-05', 3000.0, 'Salary', 'income', 3, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (64, '2024-05-07', 90.0, 'Gas Bill', 'expense', 4, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (65, '2024-05-09', 100.0, 'Internet Bill', 'expense', 5, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (66, '2024-05-11', 1200.0, 'Rent', 'expense', 6, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (67, '2024-05-13', 200.0, 'Freelance Work', 'income', 7, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (68, '2024-05-15', 150.0, 'Dining Out', 'expense', 8, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (69, '2024-05-17', 60.0, 'Cinema Tickets', 'expense', 9, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (70, '2024-05-19', 75.0, 'Fitness Class', 'expense', 10, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (71, '2024-05-21', 150.0, 'Groceries', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (72, '2024-05-23', 500.0, 'Bonus', 'income', 11, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (73, '2024-05-25', 100.0, 'Doctor Visit', 'expense', 12, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (74, '2024-05-27', 150.0, 'Insurance Premium', 'expense', 13, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (75, '2024-05-29', 200.0, 'Books', 'expense', 14, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (76, '2024-05-31', 100.0, 'Lunch with Friends', 'expense', 15, 1);

-- Inserts for June 2024

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (77, '2024-06-01', 150.0, 'Groceries', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (78, '2024-06-03', 90.0, 'Gas Bill', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (79, '2024-06-05', 3000.0, 'Salary', 'income', 13, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (80, '2024-06-07', 120.0, 'Electricity Bill', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (81, '2024-06-09', 100.0, 'Internet Bill', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (82, '2024-06-11', 1200.0, 'Rent', 'expense', 5, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (83, '2024-06-13', 200.0, 'Freelance Work', 'income', 13, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (84, '2024-06-15', 150.0, 'Dining Out', 'expense', 3, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (85, '2024-06-17', 75.0, 'Fitness Class', 'expense', 9, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (86, '2024-06-19', 60.0, 'Cinema Tickets', 'expense', 3, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (87, '2024-06-21', 150.0, 'Groceries', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (88, '2024-06-23', 500.0, 'Bonus', 'income', 13, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (89, '2024-06-25', 100.0, 'Doctor Visit', 'expense', 6, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (90, '2024-06-27', 150.0, 'Insurance Premium', 'expense', 7, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (91, '2024-06-29', 200.0, 'Books', 'expense', 8, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (92, '2024-06-30', 50.0, 'Lunch with Friends', 'expense', 3, 1);

-- Inserts for August 2024

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (93, '2024-08-01', 150.0, 'Groceries', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (94, '2024-08-03', 100.0, 'Internet Bill', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (95, '2024-08-05', 3000.0, 'Salary', 'income', 13, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (96, '2024-08-07', 90.0, 'Gas Bill', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (97, '2024-08-09', 150.0, 'Dining Out', 'expense', 3, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (98, '2024-08-11', 1200.0, 'Rent', 'expense', 5, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (99, '2024-08-13', 200.0, 'Freelance Work', 'income', 13, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (100, '2024-08-15', 75.0, 'Fitness Class', 'expense', 9, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (101, '2024-08-17', 60.0, 'Cinema Tickets', 'expense', 3, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (102, '2024-08-19', 200.0, 'Groceries', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (103, '2024-08-21', 500.0, 'Bonus', 'income', 13, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (104, '2024-08-23', 100.0, 'Doctor Visit', 'expense', 6, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (105, '2024-08-30', 300.0, 'Savings Contribution', 'expense', 10, 1);

-- Inserts for September 2024

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (106, '2024-09-03', 75.0, 'Electricity Bill', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (107, '2024-09-05', 120.0, 'Concert Tickets', 'expense', 3, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (108, '2024-09-07', 40.0, 'Public Transport Pass', 'expense', 4, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (109, '2024-09-10', 1500.0, 'Rent Payment', 'expense', 5, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (110, '2024-09-12', 90.0, 'Medical Checkup', 'expense', 6, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (111, '2024-09-15', 100.0, 'Car Insurance', 'expense', 7, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (112, '2024-09-17', 200.0, 'Online Course Fee', 'expense', 8, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (113, '2024-09-20', 30.0, 'Haircut', 'expense', 9, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (114, '2024-09-25', 300.0, 'Emergency Fund Contribution', 'expense', 10, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (115, '2024-09-28', 3500.0, 'Freelance Project', 'income', 13, 1);

-- Inserts for October 2024

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (116, '2024-10-01', 60.0, 'Grocery Shopping', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (117, '2024-10-03', 80.0, 'Water Bill', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (118, '2024-10-05', 150.0, 'Movie Night', 'expense', 3, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (119, '2024-10-07', 50.0, 'Taxi Fare', 'expense', 4, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (120, '2024-10-10', 1600.0, 'Mortgage Payment', 'expense', 5, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (121, '2024-10-12', 100.0, 'Dental Cleaning', 'expense', 6, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (122, '2024-10-15', 120.0, 'Home Insurance', 'expense', 7, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (123, '2024-10-17', 250.0, 'Language Course Fee', 'expense', 8, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (124, '2024-10-20', 45.0, 'Manicure', 'expense', 9, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (125, '2024-10-25', 3200.0, 'Bonus Payment', 'income', 13, 1);

-- Inserts for November 2024

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (126, '2024-11-01', 70.0, 'Grocery Shopping', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (127, '2024-11-03', 85.0, 'Internet Bill', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (128, '2024-11-05', 130.0, 'Theater Tickets', 'expense', 3, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (129, '2024-11-07', 60.0, 'Uber Ride', 'expense', 4, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (130, '2024-11-10', 1700.0, 'Rent Payment', 'expense', 5, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (131, '2024-11-12', 110.0, 'Physiotherapy', 'expense', 6, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (132, '2024-11-15', 130.0, 'Life Insurance', 'expense', 7, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (133, '2024-11-17', 270.0, 'Workshop Fee', 'expense', 8, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (134, '2024-11-20', 50.0, 'Spa Treatment', 'expense', 9, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (135, '2024-11-25', 4000.0, 'Freelance Project Payment', 'income', 13, 1);

-- Inserts for December 2024

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (136, '2024-12-01', 80.0, 'Grocery Shopping', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (137, '2024-12-03', 100.0, 'Heating Bill', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (138, '2024-12-05', 200.0, 'Christmas Gifts', 'expense', 11, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (139, '2024-12-07', 70.0, 'Taxi Fare', 'expense', 4, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (140, '2024-12-10', 1800.0, 'Rent Payment', 'expense', 5, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (141, '2024-12-12', 120.0, 'Chiropractic Session', 'expense', 6, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (142, '2024-12-15', 150.0, 'Holiday Travel Insurance', 'expense', 7, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (143, '2024-12-17', 300.0, 'Winter Course Fee', 'expense', 8, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (144, '2024-12-20', 60.0, 'Spa Treatment', 'expense', 9, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (145, '2024-12-25', 4500.0, 'Year-End Bonus', 'income', 13, 1);

-- Inserts for January 2025

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (146, '2025-01-01', 90.0, 'Grocery Shopping', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (147, '2025-01-03', 95.0, 'Gas Bill', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (148, '2025-01-05', 180.0, 'Concert Tickets', 'expense', 3, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (149, '2025-01-07', 80.0, 'Uber Ride', 'expense', 4, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (150, '2025-01-10', 1900.0, 'Rent Payment', 'expense', 5, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (151, '2025-01-12', 130.0, 'Physiotherapy Session', 'expense', 6, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (152, '2025-01-15', 140.0, 'Car Insurance', 'expense', 7, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (153, '2025-01-17', 350.0, 'Workshop Fee', 'expense', 8, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (154, '2025-01-20', 55.0, 'Haircut', 'expense', 9, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (155, '2025-01-22', 3200.0, 'Freelance Payment', 'income', 13, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (156, '2025-01-25', 75.0, 'Dining Out', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (157, '2025-01-27', 110.0, 'Internet Bill', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (158, '2025-01-29', 220.0, 'Comedy Show Tickets', 'expense', 3, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (159, '2025-01-31', 70.0, 'Taxi Fare', 'expense', 4, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (160, '2025-01-02', 2000.0, 'Salary Payment', 'income', 13, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (161, '2025-01-04', 145.0, 'Water Bill', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (162, '2025-01-06', 90.0, 'Movie Night', 'expense', 3, 1);

-- Inserts for February 2025

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (163, '2025-02-01', 150.0, 'Groceries', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (164, '2025-02-02', 75.0, 'Electricity Bill', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (165, '2025-02-03', 20.0, 'Cinema Tickets', 'expense', 3, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (166, '2025-02-04', 50.0, 'Gasoline', 'expense', 4, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (167, '2025-02-05', 1200.0, 'Rent', 'expense', 5, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (168, '2025-02-06', 30.0, 'Doctor Appointment', 'expense', 6, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (169, '2025-02-07', 200.0, 'Car Insurance', 'expense', 7, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (170, '2025-02-08', 45.0, 'Online Course', 'expense', 8, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (171, '2025-02-09', 25.0, 'Haircut', 'expense', 9, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (172, '2025-02-10', 100.0, 'Savings Deposit', 'expense', 10, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (173, '2025-02-11', 50.0, 'Charity Donation', 'expense', 11, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (174, '2025-02-12', 250.0, 'Weekend Getaway', 'expense', 12, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (175, '2025-02-13', 3000.0, 'Salary', 'income', 13, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (176, '2025-02-14', 100.0, 'Clothing', 'expense', 14, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (177, '2025-02-15', 75.0, 'Pet Supplies', 'expense', 15, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (178, '2025-02-16', 60.0, 'Miscellaneous', 'expense', 16, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (179, '2025-02-17', 15.0, 'Coffee Shop', 'expense', 1, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (180, '2025-02-18', 90.0, 'Phone Bill', 'expense', 2, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (181, '2025-02-19', 50.0, 'Gym Membership', 'expense', 9, 1);

INSERT INTO transactions (id, date, amount, description, type, category\_id, user\_id) VALUES (182, '2025-02-20', 500.0, 'Freelance Work', 'income', 13, 1);