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import datetime
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class ExpenseTracker:
  def __init__(self):
     self.expenses = []
  def add_expense(self, amount, description, category):
     self.expenses.append({'amount': amount, 'description': description, 'category': category, 'date':
datetime.datetime.now()})
  def view_monthly_summary(self, month, year):
     total\_expenses = 0
     category_expenses = {}
    for expense in self.expenses:
       if expense['date'].month == month and expense['date'].year == year:
          total_expenses += expense['amount']
         category_expenses[expenses['category']] = category_expenses.get(expenses['category'], 0) +
expense['amount']
    print(f"Total Expenses for {datetime.date(year, month, 1).strftime('%B %Y')}: ${total_expenses:.2f}")
     print("Category-wise Expenses:")
    for category, amount in category_expenses.items():
       print(f"{category}: ${amount:.2f}")
  def display_expenses(self):
    for expense in self.expenses:
       print(f"Date: {expense['date'].strftime('%Y-%m-%d')} | Amount: ${expense['amount']:.2f} | Category:
{expense['category']} | Description: {expense['description']}")
def main():
  tracker = ExpenseTracker()
  while True:
     print("\nExpense Tracker Menu:")
     print("1. Add Expense")
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print("2. View Monthly Summary")
     print("3. View All Expenses")
     print("4. Exit")
     choice = input("Enter your choice: ")
    if choice == '1':
       amount = float(input("Enter the amount spent: "))
       description = input("Enter a brief description: ")
       category = input("Enter the category (e.g., food, transportation, entertainment): ")
       tracker.add_expense(amount, description, category)
       print("Expense added successfully!")
     elif choice == '2':
       month = int(input("Enter the month (1-12): "))
       year = int(input("Enter the year: "))
       tracker.view_monthly_summary(month, year)
     elif choice == '3':
       tracker.display_expenses()
     elif choice == '4':
       print("Exiting...")
       break
     else:
       print("Invalid choice. Please try again.")
if __name__ == "__main___":
  main()
```