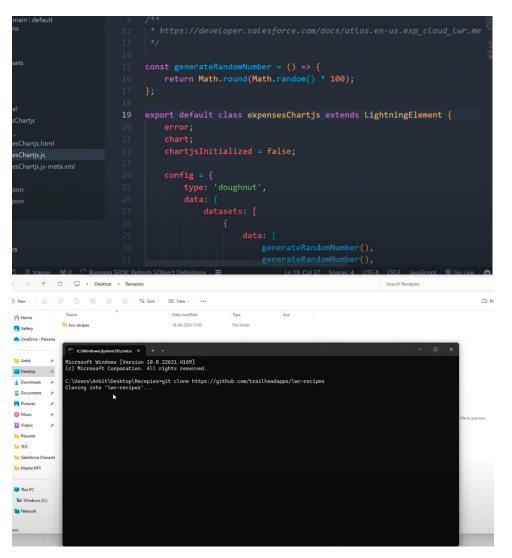
# **Expense Tracker Project (Phase 5: Apex Programming)**

#### Goal

The goal of this project is to build a **Salesforce-based Expense Tracker** that automates the management and approval of employee expenses. Custom logic using Apex enhances system functionality, enabling automatic record creation, advanced calculations, and dynamic reporting. This reduces manual effort, ensures accuracy, and improves overall expense management efficiency.

#### **Problem Statement**

Organizations face challenges in managing and approving employee expenses due to manual processes, leading to delays, errors, and lack of real-time visibility. A Salesforce-based Expense Tracker with custom Apex programming automates record handling, calculations, and reporting, ensuring faster approvals, accurate reimbursements, and better control over organizational spending.

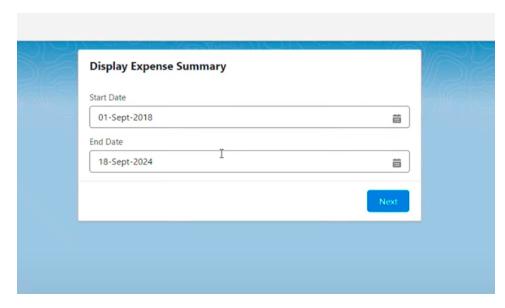


# **Phase 5: Apex Programming (Developer)**

Phase 5 focuses on **Apex Programming** to introduce custom logic and advanced functionality. Custom **Apex Triggers, Classes, and SOQL queries** were developed to automate business processes for the Expense Tracker Project.

# **Apex Triggers**

- Developed a trigger to automatically create an **Approval record** whenever a new highvalue expense is submitted.
- Ensures that all expenses requiring managerial approval are consistently tracked without manual intervention.



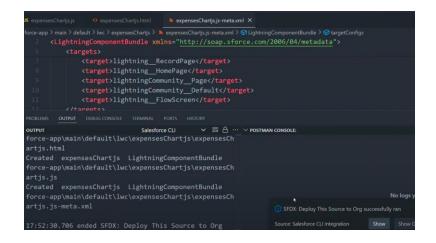
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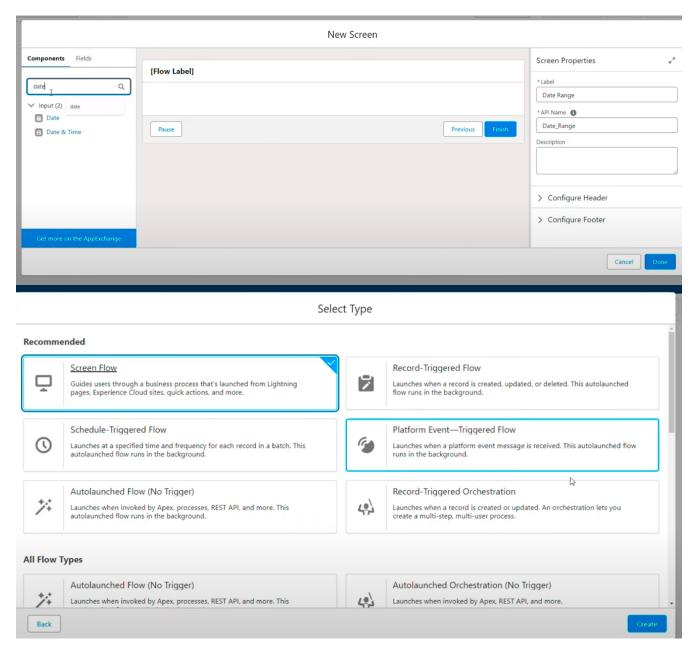
### **SOQL Queries**

- Designed SOQL queries to fetch **employee expense reports**.
- Generated **total expense summaries** by employee, department, and category.



### **Test Classes**

- Added test classes to validate Apex logic and ensure 100% code coverage.
- Improved system reliability and supported successful deployments.
- Maintained compliance with Salesforce best practices.



#### **Conclusion**

Phase 5 successfully implemented **Apex Programming** in the Expense Tracker Project. Through triggers, classes, and SOQL queries with robust test coverage, the system achieved advanced automation and custom logic. This ensured **accurate expense tracking, streamlined approvals, and comprehensive reporting**, enhancing the overall functionality and reliability of the Expense Tracker.