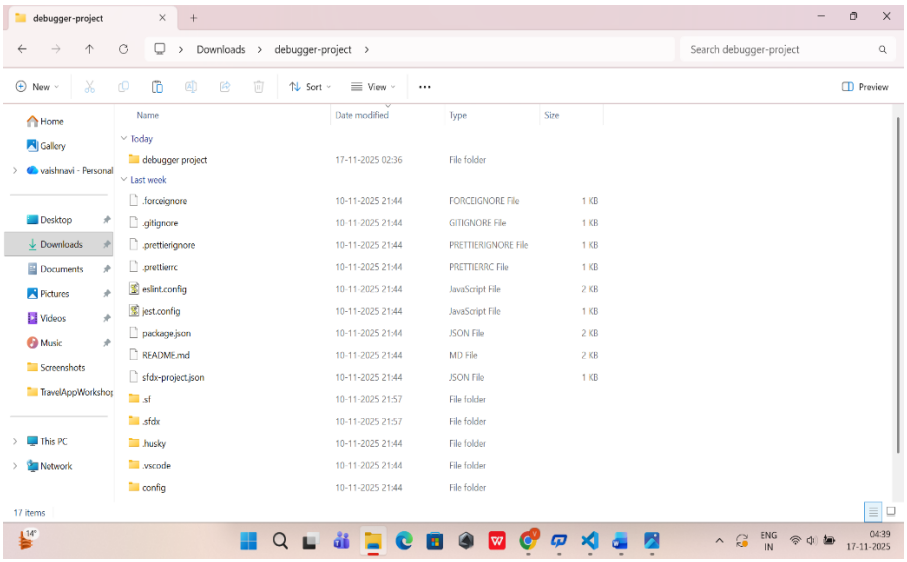
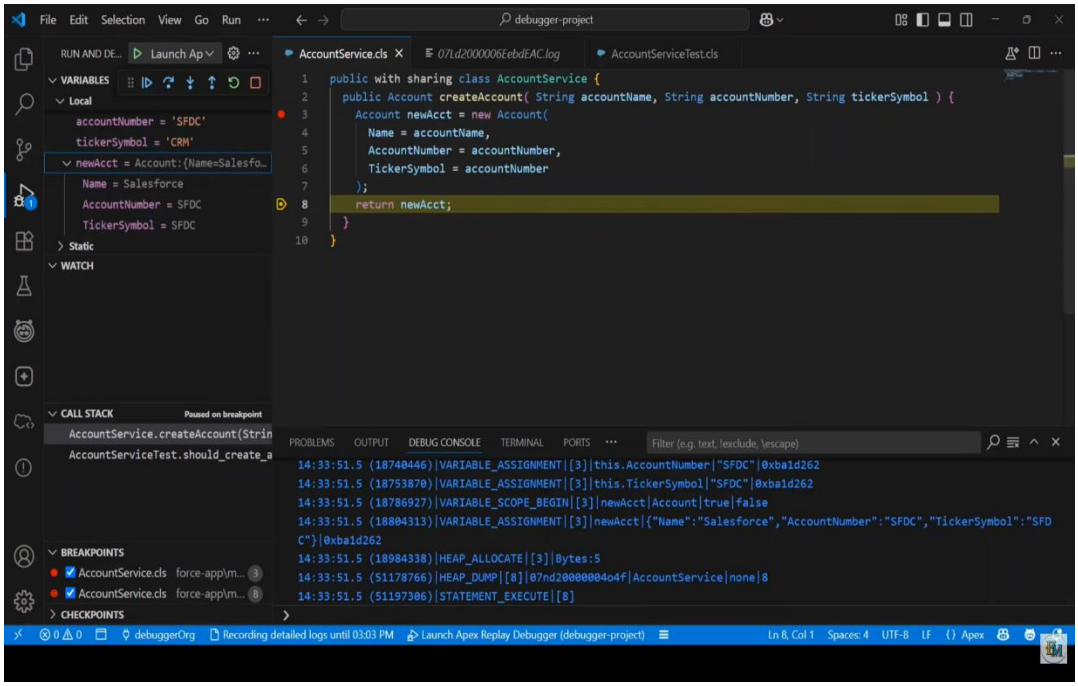
Phase 6: User Interface Development

Debug Log Analysis and Bug Fixing in Salesforce Apex

1. **Designing a Developer Console-Style UI**
    - Create a Lightning App Page or LWC (Lightning Web Component) layout for viewing Apex logs.
    - Provide sections such as:
        - *Upload Log File*
        - *Select Existing Log*
        - *Run Replay Debugger*
        - *View Debug Timeline & Events*



2. **Developing**
    - Build components for:
        - **Log Upload Component** – allows users to upload .log files generated by Salesforce.
        - **Log List Viewer** – displays stored logs with date/time and type.
        - **Debugger Action Panel** – provides buttons such as *Replay*, *Step Over*, *Step Into*, *Step Out* (simulated for demo purposes).
        - **Debug Result Viewer** – shows output like variable values and execution steps.



3. **Connecting UI With Backend Apex**
    - LWC components call Apex methods to:
        - Store log files in a custom object.
        - Process log content and extract debug events.
        - Return step-by-step debug information back to the UI.
4. **UI for Data Visualization**
    - Display debugging steps in structured formats like:
        - Tables (execution order)
        - Highlighted code segments
        - Error-focused sections (if any)
5. **Ensuring Ease of Use**
    - Clear labels and simple instructions for developers.
    - Intuitive navigation so users can easily:
        - Upload → Run → Analyze logs.