Phase 5: Apex Programming (Optional)

This phase was designated for using Apex, Salesforce's proprietary programming language, to implement advanced, custom logic beyond the capabilities of declarative tools like Flow. The goal was to enhance the application with more complex business rules and data validation.

Step-by-Step Process:

- 1. **Reviewing Potential Enhancements:** The first step was to identify areas where Apex could add value. This included developing a matching algorithm to automatically suggest suitable pets for adopters or creating complex validation rules to prevent duplicate or incomplete adoption requests from being submitted.
- Analyzing Project Scope and Priority: The project plan explicitly marked this phase as
 "Optional". A strategic decision was made to prioritize the successful and timely
 delivery of the core application features using Salesforce's powerful declarative tools
 (like Flow and the App Builder).
- 3. Strategic Omission: Based on the analysis, this phase was strategically skipped. For the core goals of this project, custom coding was not necessary, as all mandatory requirements were successfully met using Salesforce's powerful declarative tools. This decision ensured a focus on delivering a complete, functional application, demonstrating the power of the platform without the need for custom Apex.