

Phase 3: Data Modeling & Relationships

Objective:

To design a scalable and maintainable **data model** for ApexHub that supports recipe management, execution logs, and integration with standard objects.

Activities:

1. Custom Objects Design:

- `Recipe__c`: Stores metadata about each Apex recipe (Name, Type, Description, Category).
- `RecipeLog__c`: Tracks execution details of recipes (Status, Execution Time, Triggered By).

2. Relationships:

- `RecipeLog__c` → Lookup to `Recipe__c` (1-to-many)
- Optional relationships with **Account**, **Contact**, and **Opportunity** for integration examples.

3. Field Definitions:

- `Recipe__c`: Name, Type, Category, Description, LastModifiedBy
- `RecipeLog__c`: ExecutionTime, Status, Message, `Recipe__c` (Lookup)

4. Validation Rules & Picklists:

- Added picklist fields for `Recipe Type` (Trigger, Batch, LWC, Flow)
- Created validation rules to ensure mandatory fields are populated before execution.

5. ERD (Entity Relationship Diagram):

`Recipe__c` | |---< `RecipeLog__c` `Account` / `Contact` / `Opportunity` (optional integration)

Deliverables:

- Fully defined custom objects with relationships
- Validation rules for data integrity
- ERD diagram placeholder for documentation