

Complex Task: Plan an E-commerce Website Development Using FDD in ClickUp

Duration: 60 minutes

Objective: In this 60-minute task, you will apply Feature Driven Development (FDD) principles within the Software Development Life Cycle (SDLC) to plan the development of an e-commerce website. You will use ClickUp, a project management tool, to organize and document your plan.

Project Requirements

The e-commerce website project includes the following requirements:

- User registration and login
- Product catalog with categories and search functionality
- Shopping cart
- Checkout process with payment integration
- Order management for users and admins
- User profile management
- Product reviews and ratings
- Admin dashboard for managing products, orders, and users

Constraints

- **Deadline:** The website must be launched in 3 months (approximately 12 weeks).
- **Team Capacity:** There are 2 feature teams, each capable of completing one feature per 2-week iteration.
- **High-Priority Features:** The following must be included early in the development process:
 - User registration and login
 - Product catalog
 - Shopping cart
 - Checkout process
- **Dependencies:**
 - Checkout process requires Shopping cart to be completed first.
 - Order management requires Checkout process to be completed first.
 - Admin dashboard requires both Order management and Product catalog to be completed first.

Task Steps

1. Identify Features (15 minutes)

- Objective: Extract key features from the provided requirements.
- Instructions:
 - For this task, treat each requirement as a single feature (e.g., "User registration and login" is one feature).
 - Write a brief description for each feature (e.g., "Allow users to create accounts and log in securely").
 - In ClickUp:
 - Create a new project space titled "E-commerce Website Development."
 - Add each feature as a task within a list or board, including its description in the task details.

2. Prioritize Features (10 minutes)

- Objective: Determine the order of feature development based on priority and constraints.
- Instructions:
 - Ensure the high-priority features (User registration and login, Product catalog, Shopping cart, Checkout process) are scheduled early.
 - Use ClickUp's priority settings (e.g., High, Medium, Low) to mark each task's importance.
 - Consider business value and dependencies when setting priorities.

3. Plan Iterations (20 minutes)

- Objective: Schedule features into 2-week iterations to meet the 3-month deadline.
- Instructions:
 - Assign features to iterations, ensuring each of the 2 feature teams works on one feature per iteration.
 - Account for dependencies (e.g., Shopping cart must be completed before Checkout process).
 - Set due dates for each feature based on its assigned iteration (e.g., Iteration 1 ends in 2 weeks, Iteration 2 in 4 weeks).
 - In ClickUp:
 - Organize tasks into iterations using lists (e.g., "Iteration 1," "Iteration 2") or a custom field for iteration numbers.
 - Assign due dates to reflect the iteration schedule.

4. Set Dependencies (10 minutes)

- Objective: Link dependent features to ensure proper sequencing.
- Instructions:
 - For features with dependencies (e.g., Checkout process depends on Shopping cart), use ClickUp's dependency feature to connect the tasks.
 - Verify that dependent features are scheduled in logical order across iterations.

5. Review and Adjust (5 minutes)

- Objective: Finalize the plan and ensure it meets all requirements and constraints.
- Instructions:
 - Check that all features are included, high-priority features are scheduled early, and dependencies are correctly set.

- Confirm the plan fits within the 12-week deadline with the 2 feature teams' capacity.
- Make any necessary adjustments in ClickUp.

Deliverable

By the end of the 60-minute session, you should have:

- A ClickUp project titled "E-commerce Website Development" containing:
 - All identified features as tasks, each with a description, priority, and due date.
 - Tasks organized into 2-week iterations (e.g., via lists or custom fields).
 - Dependencies set between tasks where applicable (e.g., Shopping cart → Checkout process).

Additional Notes

- This task focuses on the planning phase of FDD within the SDLC, specifically the "Build a Features List" and "Plan by Feature" processes.
- You have flexibility in how to structure the ClickUp project (e.g., using spaces, lists, or boards), but ensure it clearly reflects the iteration plan and dependencies.
- If time permits, you may optionally assign tasks to hypothetical feature teams to simulate FDD's team-based approach.