# "Scrum Framework for E-commerce Website Development"

#### Scrum Framework Applied to E-commerce Website Development Using Jira

In this project, the Scrum framework was implemented to manage the development of a comprehensive e-commerce website. The key elements of Scrum, including roles, activities, and time durations, were systematically organized within Jira to ensure an efficient project management process.

#### 1. Scrum Roles:

- **Product Owner:** The Product Owner was responsible for defining and prioritizing the product backlog, ensuring that the features developed aligned with business needs. For instance, they created and prioritized user stories in Jira, such as "User Registration and Login" and "Product CatLog."
- **Scrum Master:** The Scrum Master facilitated Scrum ceremonies and removed impediments. They set up and managed sprint planning sessions in Jira, ensuring the team followed Scrum practices and timelines.
- **Development Team:** The Development Team self-organized to complete tasks from the sprint backlog, including design, development, and testing. They worked collaboratively within Jira, updating the status of tasks and ensuring transparency in progress.

### 2. Scrum Activities and Their Implementation in Jira:

#### 1. Product Backlog Creation and Refinement:

The Product Owner, with input from stakeholders, created a comprehensive backlog in Jira, listing all necessary features, such as user registration, shopping cart functionality, and payment gateway integration. This backlog was continuously refined to ensure clarity and prioritization.

### 2. Sprint Planning:

Sprint planning sessions were held to select user stories from the backlog for the upcoming sprint. For example, in Sprint 1, the team focused on the "User Registration and Login" story, breaking it down into smaller tasks like designing the UI and implementing backend authentication.

### 3. Daily Stand up:

The team conducted daily stand-ups, each lasting 15 minutes, to discuss progress and address any blockers. These updates were reflected in Jira, where each team member updated the status of their tasks from "To Do" to "In Progress" and eventually to "Done."

#### 4. Sprint Review:

At the end of each sprint, the completed features were demonstrated to stakeholders using Jira's sprint board. For instance, at the end of Sprint 3, the team showcased the

fully functional shopping cart, gathering feedback that informed the next sprint's planning.

## 5. Sprint Retrospective:

The team reflected on the sprint's successes and challenges during the retrospective. They used Jira to review completed tasks and discussed process improvements, such as enhancing test automation, which was then added as a task in the next sprint.

## 6. Sprint Execution:

Throughout each sprint, the team worked on tasks from the sprint backlog. For example, during Sprint 2, they focused on implementing the "Product CatLog," ensuring users could browse and search for products by category.

#### 7. Backlog Refinement:

Regular backlog refinement sessions were conducted to ensure the backlog in Jira was up-to-date and prioritized. This included breaking down large stories into smaller, more manageable tasks and adjusting priorities based on stakeholder feedback.

#### 3. Time Durations:

The time durations for each Scrum activity were defined as follows:

- **Sprint Duration:** 2 weeks per sprint.
- **Sprint Planning:** 4 hours for each sprint planning session.
- **Daily Stand up:** 15 minutes each day.
- **Sprint Review:** 4 hours at the end of each sprint.
- **Sprint Retrospective:** 2 hours at the end of each sprint.
- **Backlog Refinement:** 1-2 hours per week.

### 4. Example of Jira Project Setup:

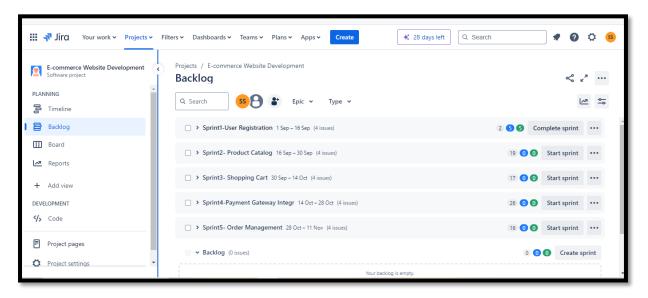
- **Epic Name:** E-commerce Website Development
- User Stories:
  - 1. **User Registration and Login:** As a user, I want to register and log in to the website.
  - 2. **Product CatLog:** As a user, I want to browse and search for products by category and keywords.
  - 3. **Shopping Cart:** As a user, I want to add items to my shopping cart and proceed to checkout.

### • Tasks:

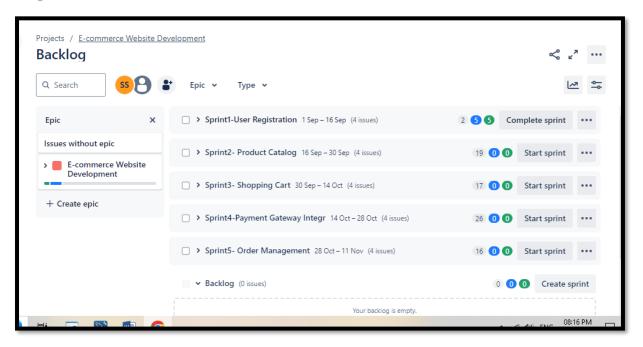
For the "User Registration and Login" story, tasks included designing the registration UI, implementing backend authentication, and integrating email verification.

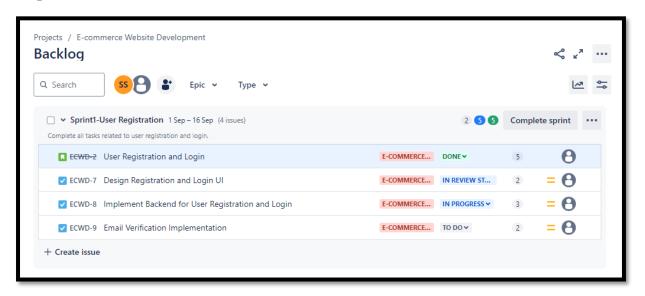
•	Sprints:
	The project was divided into multiple sprints, each focusing on different aspects of the website, such as user registration, product catalog, and shopping cart functionality.

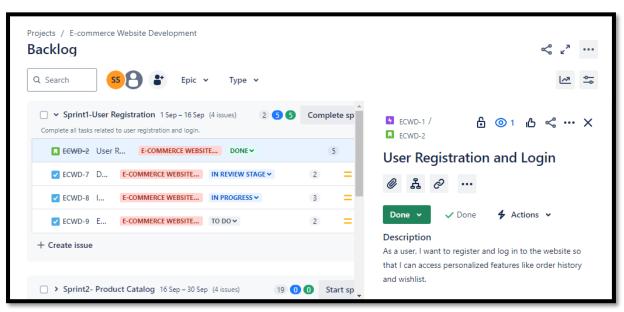
# 1. Project Name = E-commerce Website Development

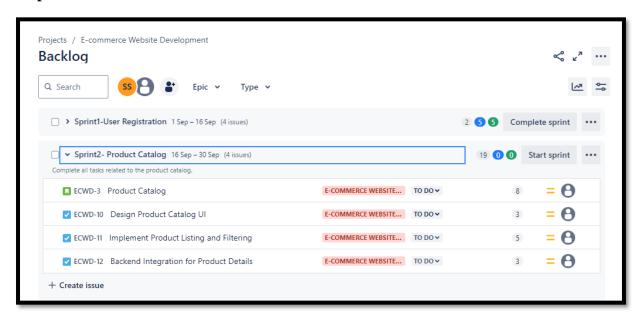


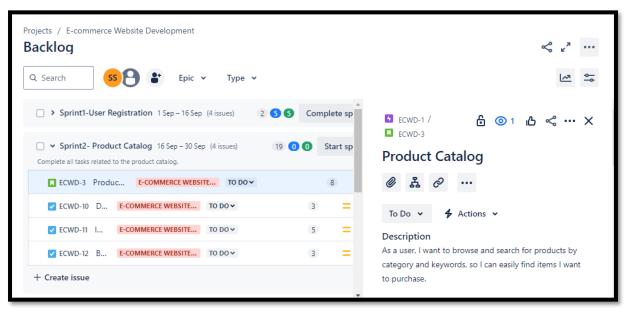
# **2. Epic** =

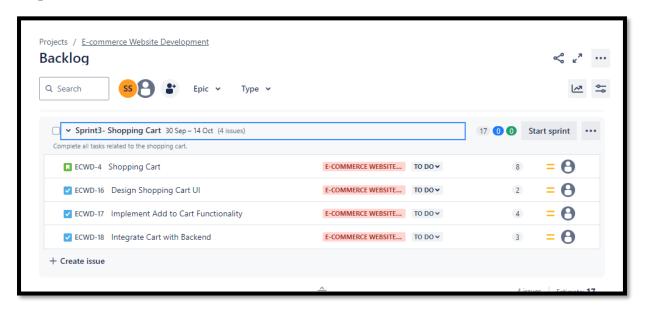


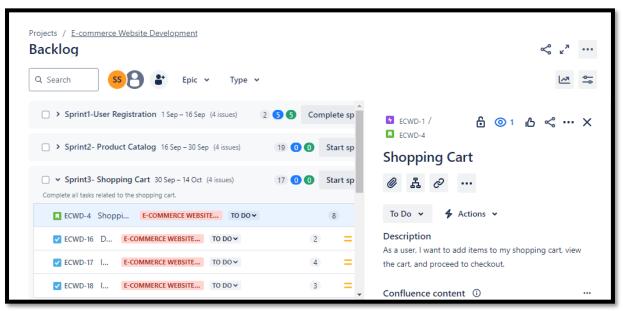


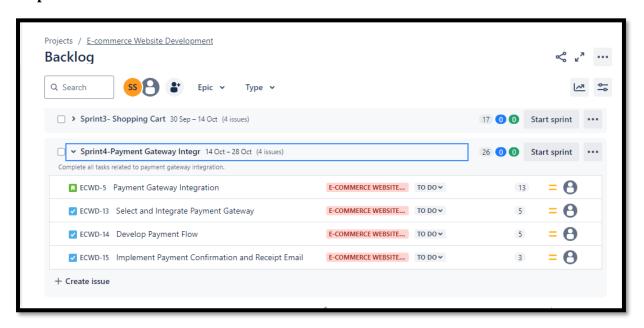


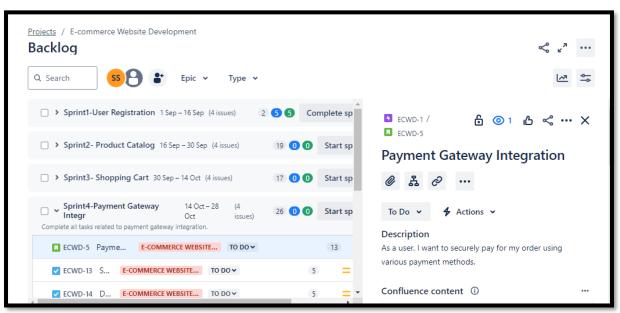


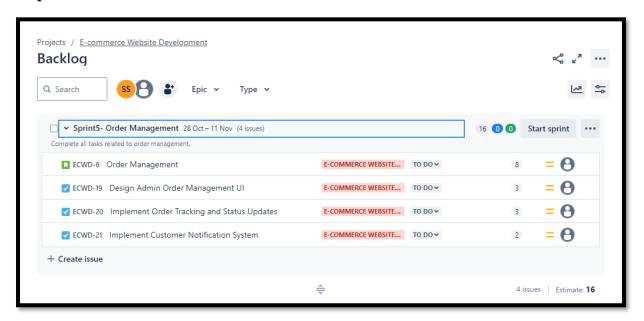


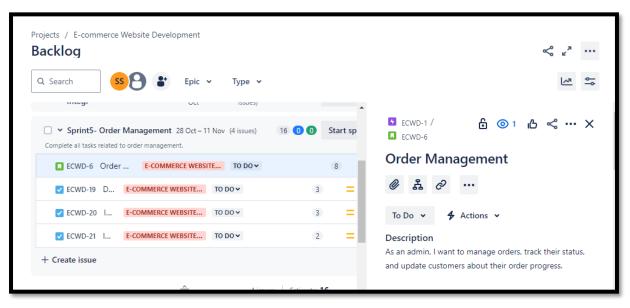




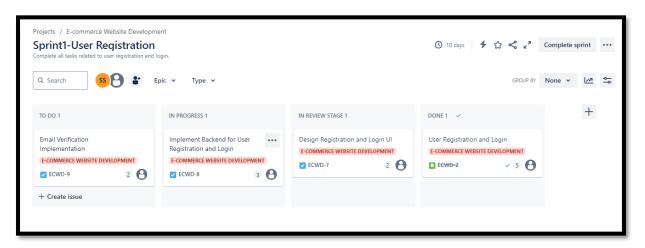




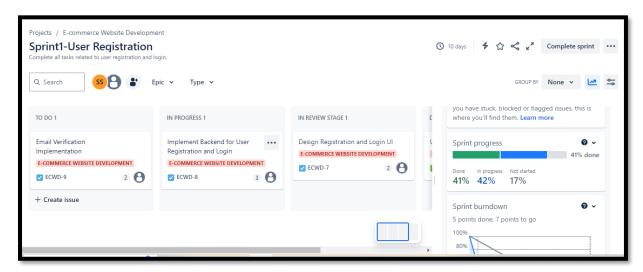




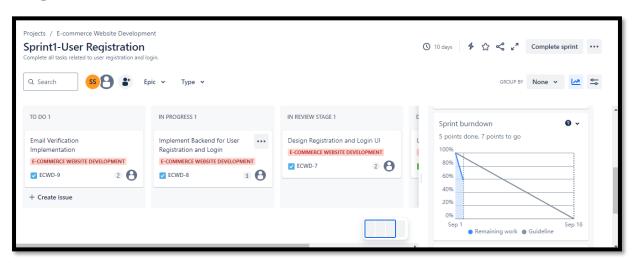
### 8. Board



# 9. Sprint Progress



# 10. Sprint Burndown



## 11. Report





# 12. Timeline

