

## E-Commerce Website

An e-commerce website is one that allows people to buy and sell physical goods, services, and digital products over the internet rather than at a brick-and-mortar location. Through an e-commerce website, a business can process orders, accept payments, manage shipping and logistics, and provide customer service.

### Requirements.

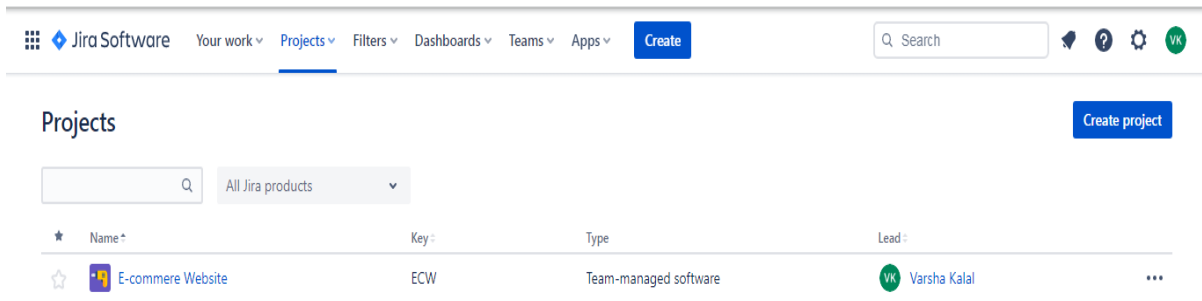
- **User-friendly interface:** The website should have a clean and easy-to-navigate design that enables customers to find what they are looking for quickly.
- **Product catalog:** The website should have a well-organized product catalog that displays products with their names, descriptions, prices, and images.
- **Shopping cart:** The website should have a shopping cart feature that enables customers to add items to their cart and checkout when they are ready to purchase.
- **Payment gateway:** The website should have a secure payment gateway that accepts various payment methods such as credit cards, PayPal, or online banking.
- **Order management system:** The website should have an order management system that allows businesses to track and manage their orders, process payments, and update customers about their order status.
- **Customer account management:** The website should have a customer account management system that allows customers to create accounts, manage their orders, and view their order history.
- **Search engine optimization (SEO):** The website should be optimized for search engines to improve its visibility and attract more organic traffic.
- **Security:** The website should have robust security measures in place to protect sensitive customer information and prevent fraud.
- **Mobile responsiveness:** The website should be optimized for mobile devices to provide a seamless user experience on smartphones and tablets.
- **Customer support:** The website should have a customer support system in place, such as a chatbot or live chat, to help customers with their queries and concerns.

## **Risks:**

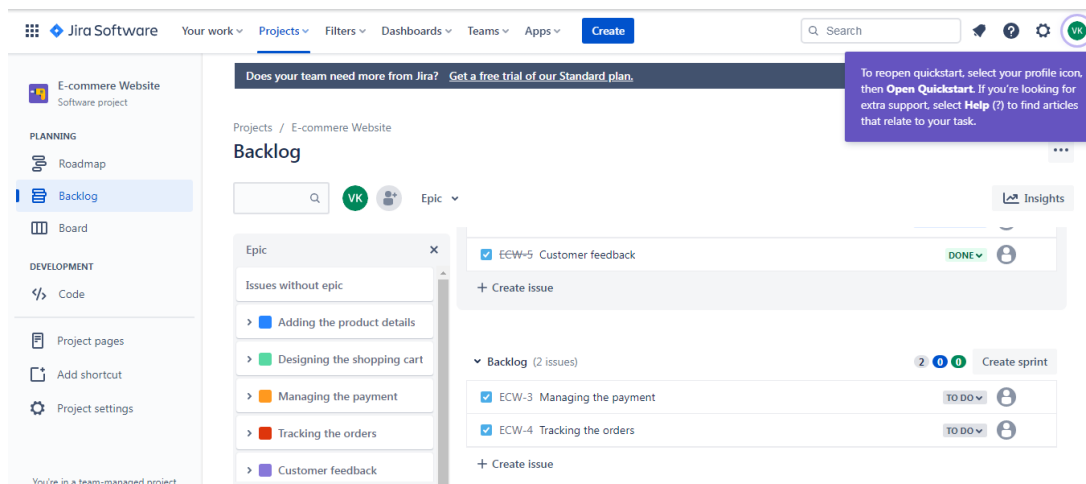
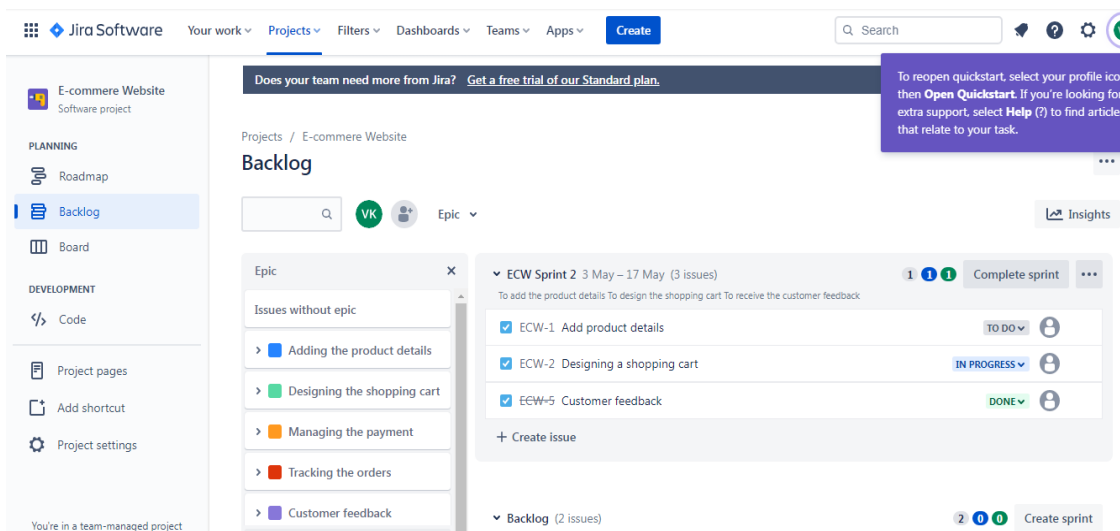
- **Fraudulent activities:** E-commerce websites are often targeted by scammers who use stolen credit card information or other illegal means to make purchases or gain access to sensitive data.
- **Payment processing issues:** Payment processing can be a challenge, with issues related to chargebacks, refunds, and payment gateway integration that can impact the business's finances.
- **Shipping and logistics problems:** Shipping and logistics can be complicated, with issues related to product delivery, inventory management, and customer support.
- **Compliance and legal issues:** E-commerce websites must comply with various laws and regulations related to data privacy, consumer protection, and online marketing, which can be challenging for businesses to navigate.

Configure JIRA for managing the project to solve the identified problem.

- **STEP 1:** Click on the project button – Your created projects will be displayed



- **STEP 2:** Click on Backlog button and create an issue in backlog. Drag the issues from backlog to sprint.



➤ STEP 3: Click on Board and drag the issues to its respective fields.

The screenshot shows the Jira Software interface for the 'E-commerce Website' project. The left sidebar contains navigation options: 'PLANNING' (Roadmap, Backlog, Board) and 'DEVELOPMENT' (Code, Project pages, Add shortcut, Project settings). The 'Board' option is selected. The main content area displays 'ECW Sprint 2' with a description: 'To add the product details To design the shopping cart To receive the customer feedback'. Below this, there are three columns for the sprint: 'TO DO 1 ISSUE', 'IN PROGRESS 1 ISSUE', and 'DONE 1 ISSUE'. Issues are being dragged into these columns: 'Add product details' (ECW-1) to TO DO, 'Designing a shopping cart' (ECW-2) to IN PROGRESS, and 'Customer feedback' (ECW-5) to DONE.

➤ STEP 4: Click on Roadmap and create the Epic and child processes.

The screenshot shows the Jira Software interface for the 'E-commerce Website' project. The left sidebar contains navigation options: 'PLANNING' (Roadmap, Backlog, Board) and 'DEVELOPMENT' (Code, Project pages, Add shortcut, Project settings). The 'Roadmap' option is selected. The main content area displays the 'Roadmap' view. At the top, there are options to 'Give feedback', 'Share', and 'Export'. Below this, there is a search bar and filters for 'Status category' and 'Epic'. The roadmap itself is a horizontal timeline with columns for 'APR', 'MAY', and 'JUN'. A vertical line indicates the current position in the timeline. The roadmap shows several sprints and issues: 'ECW Sprint 2' (blue bar), 'ECW-6 Adding the product details' (blue bar), 'ECW-7 Designing the shopping cart' (green bar), 'ECW-8 Managing the payment' (orange bar), 'ECW-9 Tracking the orders' (red bar), and 'ECW-10 Customer feedback' (purple bar). A '+ Create Epic' button is visible at the bottom.

➤ STEP 5: Share the Project to the users.

The screenshot displays the Jira Software interface for a project named 'E-commerce Website'. The top navigation bar includes 'Your work', 'Projects', 'Filters', 'Dashboards', 'Teams', 'Apps', and a 'Create' button. The left sidebar shows the project structure with 'PLANNING' (Roadmap, Backlog, Board) and 'DEVELOPMENT' (Code, Project pages, Add shortcut, Project settings). The main area shows the 'ECW Sprint 2' board, which is a Kanban-style board with three columns: 'TO DO 1 ISSUE', 'IN PROGRESS 1 ISSUE', and 'DONE 1 ISSUE'. The 'TO DO' column contains the issue 'Add product details' with sub-item 'ECW-1'. The 'IN PROGRESS' column contains the issue 'Designing a shopping cart' with sub-item 'ECW-2'. The 'DONE' column contains the issue 'Customer feedback' with sub-item 'ECW-5'. The board is filtered by 'AM' and 'Epic'. The 'Complete sprint' button is visible in the top right of the board area.

Projects / E-commerce Website

### ECW Sprint 2

To add the product details To design the shopping cart To receive the customer feedback

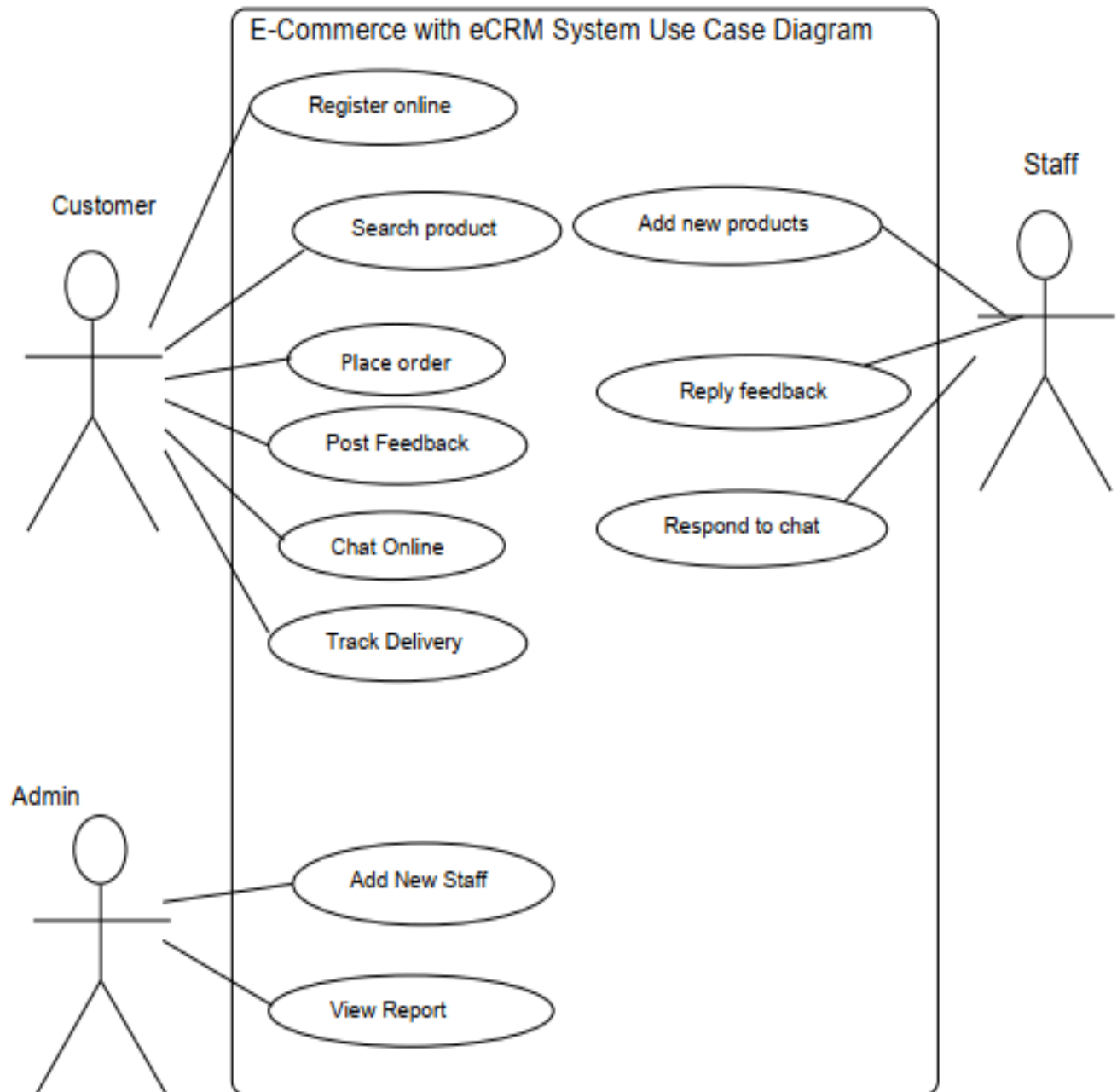
7 days remaining Complete sprint

GROUP BY None Insights

TO DO 1 ISSUE	IN PROGRESS 1 ISSUE	DONE 1 ISSUE ✓
<div>Add product details</div> <div>✓ ECW-1</div>	<div>Designing a shopping cart</div> <div>✓ ECW-2</div>	<div>Customer feedback</div> <div>✓ ECW-5</div>

## UML Diagram

### Use case diagram



## User Stories:

<b>Title: Product Details</b>	<b>Priority: High</b>	<b>Estimate:2</b>
<b>User story – customer</b>  <u>As a</u> customer, of E-commerce website <u>I want</u> to be able to easily search and find products that I am interested in purchasing, <u>So that</u> I can quickly find what I need and make a purchase.		
<b>Acceptance criteria:</b>  <u>Given</u> that search bar should be functional and return relevant results based on user search terms <u>When</u> the search results are entered <u>Then</u> it will be easy to Navigate and filter		

<b>Title: Product Details</b>	<b>Priority: High</b>	<b>Estimate:2</b>
<b>User story – seller</b>  <u>As a</u> seller, of E-commerce website <u>I want</u> to be able to list my products easily and manage my inventory efficiently <u>So that</u> I can increase sales and grow my business		
<b>Acceptance criteria:</b>  <u>Given</u> that the website should allow to manage inventory <u>When</u> they manage the inventory, <u>Then</u> it will be easy to set stock levels for each product.		

<b>Title: Product Details</b>	<b>Priority: High</b>	<b>Estimate:2</b>
User story – Administrator  <u>As an</u> administrator of E-commerce website <u>I want</u> to ensure that the website is efficient <u>So that</u> it can handle high volumes of traffic		
<b>Acceptance criteria:</b>  <u>Given</u> that website should be able to Handle high volumes of traffic without crashing <u>When</u> the website is optimized for faster loading times <u>Then</u> the website is monitored and optimized as needed		

<b>Title: Product Details</b>	<b>Priority: High</b>	<b>Estimate:2</b>
User story –Owner  <u>As an</u> Owner of E-commerce website <u>I want</u> to ensure that the customers have a smooth and secure checkout process <u>So that</u> it can be easy and safe to use the website		
<b>Acceptance criteria:</b>  <u>Given</u> that website should offer with a smooth and secure checkout process <u>When</u> they pay through multiple payment options <u>Then</u> the customers will be safe with their Bank security		



## Test plan suite for above user stories using jira

### Step 1: Install Zephyr Scale – Test Management for Jira.

The screenshot shows the Jira Marketplace page for the 'Zephyr Scale - Test Management for Jira' app by SmartBear. The app has a 4.5-star rating and is marked as 'CLOUD FORTIFIED'. A success message overlay states: 'Success Zephyr Scale - Test Management for Jira was added. Manage app'. The app's overview section features a video player with the text 'A scalable, performant test management solution with advanced reporting, and security features'. The video player shows a preview of the Zephyr Scale interface, including a sidebar with navigation options like 'Test Cases', 'Test Cycles', 'Test Plans', and 'Reports', and a main content area with a 'New Test Case' button and a list of test cases.

### Step 2: Create Test Suite (case) for your project

The screenshot shows the Jira Zephyr Scale interface. The left sidebar contains navigation options: 'ashwini Software project', 'PLANNING' (Roadmap, Board), 'DEVELOPMENT' (Code), 'Project pages', 'Zephyr Scale', 'Add shortcut', and 'Project settings'. The main content area is titled 'Zephyr Scale' and has tabs for 'Test Cases', 'Test Cycles', 'Test Plans', and 'Reports'. The 'Test Cases' tab is active, showing a '+ New Test Case' button and a list of test cases. The list has columns for 'P' (Priority), 'Key', 'V' (Version), 'Name', and 'Status'. Two test cases are listed: 'AS-T1' with version '1.0' and status 'DRAFT', and 'AS-T2' with version '1.0' and status 'DRAFT'. The 'AS-T2' test case has a description 'Designing the shopping cart'. A search bar and filters are also visible at the top right of the test cases list.

### Step 3: Add the details for your test suite.(case)

Jira Software

Your work

Projects

Filters

Dashboards

Teams

Apps

Create

Q Search

1

?

⚙

AM

ashwini

Software project

PLANNING

Roadmap

Board

DEVELOPMENT

Code

Project pages

Zephyr Scale

Add shortcut

Project settings

ashwini / Test Cases / AS-T1 (1.0)

Back

Save

New Version

1.0

Details

Test Script

Execution

Traceability

Attachments

Comments

History

~ Name\*

Add product details

~ Objective

Add product details

~ Precondition

Product details will be entered

~ Details

Status	Priority	Component	Owner	Estimated Time ⓘ
Draft	High	None	Ashwini morabad	02:00
Folder				
None				

Jira Software

Your work

Projects

Filters

Dashboards

Teams

Apps

Create

Q Search

1

?

⚙

AM

ashwini

Software project

PLANNING

Roadmap

Board

DEVELOPMENT

Code

Project pages

Zephyr Scale

Add shortcut

Project settings

ashwini / Test Cases / AS-T2 (1.0)

Back

Save

New Version

1.0

Details

Test Script

Execution

Traceability

Attachments

Comments

History

~ Name\*

Designing the shopping cart

~ Objective

Designing the shopping cart

~ Precondition

Format sheet will be entered and items are added

~ Details

Status	Priority	Component	Owner	Estimated Time ⓘ
Draft	Normal	None	Ashwini morabad	hh:mm
Folder				
None				