



# **Jalapeñcode**

**Version 3.0**

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**CSUF CPSC 362  
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## Revision History

Name	Date	Reason for Change	Version
Mark Yang	09/06/17	Added business requirements, vision, scope, business context, references, sprint backlog.	1.0.1
Alex Athas	10/04/17	Added user stories, use-case.	1.0.2
Alex Athas	10/07/17	Added use-case diagram, staging, pregame planning, user manual.	1.0.3
Jeffery Liv, Mark Yang	10/09/17	Updated use-cases, references.	1.0.4
Alex Athas	11/01/17	Added class diagram and CRC.	2.0.1
Mark Yang	11/04/17	Updated use-cases and user manual.	2.0.2
Alex Athas	11/04/17	Updated use-case diagram.	2.0.3
Jeffrey Liv	11/13/17	Added test cases.	3.0.1
Hympert Nguyen	11/27/17	Added state diagrams.	3.0.2
Jeffrey Liv	12/11/17	Added test cases.	3.0.3
Mark Yang	12/12/17	Added use-cases. Updated use-case diagram and user manual.	3.0.4

# 1. Business Requirements

This section provides the foundation and reference for all detailed requirements development, in essence why the project is being undertaken and the ultimate value it will provide, both to the customers and to the business.

## 1.1 Background

The chili pepper, consumed by more than a quarter of the world's population, is an integral part of many cuisines around the globe. The prevalent use of chili peppers even defines many cuisines, especially among the Southeast Asian region, so it may be hard to imagine that none of the people in these regions would have seen or heard of the chili pepper, 500 years ago. This fruit originated in Central and South America, and its spread throughout the world can be traced back to the singular moment when Christopher Columbus arrived in the Caribbean, which led to the largest intercontinental exchange since the ice age.

The advent of the internet has brought forth a second, exciting opportunity for a faster and more widespread exchange. An online market for chili peppers should and can be developed.

## 1.2 Business Opportunity

Aforementioned, the internet provides a wonderful environment to meet the market demand for chili peppers. While similar services already exist, their services have been diluted by offering impure products, like hot sauces and BBQ sauces, and shipping is free after purchasing a minimum quantity. There is an opportunity to capture non-bulk order customers and customers who have the fiery passion for heat.

## 1.3 Business Objectives and Success Criteria

Business Objectives:

- Create the webpage(s) to display chili peppers for sale
- Implement the server code for a market

Success Criteria:

- Customers can access the market from a web browser
- Customers can purchase desired goods

## 1.4 Customer or Market Needs

Customers need a centralized location to discover and purchase chili peppers. The service must be fast, responsive, reliable, and secure.

## 1.5 Business Risks

- Direct competitors, such as HotSauce.com and HotSauceDepot.com

- Competition from general online market, such as Amazon
- Some users may be wary of online purchase because privacy issues
- Service could fail, resulting in potential monetary loss or lawsuit
- Database could fail due to breach or system failure

## 2. Vision of the Solution

This section provides the context for making decisions throughout the course of the product development lifecycle, without including detailed functional requirements or project planning information.

### 2.1 Vision Statement

Jalapeñcode aims to provide a one-stop shop for the niche market of chili pepper enthusiasts.

### 2.2 Major Features

- FE-1 Implement web server
- FE-2 Design simple webpage(s) to display products
- FE-3 Create database to track inventory and purchases
- FE-4 Add search/filter for products
- FE-5 Add shopping cart and checkout
- FE-6 Add customer account signup
- FE-7 Add review/comment section for products
- FE-8 Social media integration

### 2.3 Assumptions and Dependencies

Assumptions:

- A demand for chili peppers exists
- An inventory for products exists
- Shipping cost can be ignored
- Users have JavaScript enabled
- Only English support is required
- All transactions are in USD
- Online purchasing can be done without credit cards, PayPal, cryptocurrencies, etc.
- Site security is a minimal issue

Dependencies:

- PHP and MySQL for backend
- jQuery and Bootstrap for frontend
- Assumptions are taken as facts for the purpose of this class project

## 3. Scope and Limitations

This section provides the concept and range of the proposed solution, what will not be included in the product, and a reference frame against which proposed feature and requirements changes can be evaluated.

### 3.1 Scope of Initial Release and Subsequent Releases

Feature	Release 1	Release 2	Release 3
FE-1	Fully implemented		
FE-2	Fully implemented		
FE-3	Fully implemented		
FE-4		Fully implemented	
FE-5		Fully implemented	
FE-6			Fully implemented

### 3.2 Limitations and Exclusions

If time permits, FE-7 and FE-8 will be included.

## 4. Business Context

This section provides some of the business issues around the project, including profiles of major customer categories, assumptions that went into the project concept, and the management priorities for the project.

### 4.1 Stakeholder Profiles

Stakeholder	Major Value	Attitudes	Major Interest	Constraints
Customer	centralized location to purchase chili peppers	highly receptive	ease of use, reliability, security	internet access, disposable income
Vendor	centralized location to sell chili peppers	highly receptive	ease of use, reliability, security	internet access, has inventory
Investor	return on investment	highly receptive	profit from investment	N/A
Employee	source of income	highly receptive	project completion	time, energy

### 4.2 Project Priorities

Dimension	Driver	Constraint	Degree of Freedom
Schedule	Release 1 delivered by 10/11/2017 Release 2 delivered by	Staff has commitments outside of this project	

	11/8/2017 Release 3 delivered by TBD		
Features			FE-1 to FE-5 required
Quality			Each release must be presentable to customer
Staff		Team size of 4 developers	
Cost			No budget available

### 4.3 Operating Environment

The project will operate in the following conditions:

- English language only
- Newest version of all major web browsers
- Continuous service preferred, minor interruptions tolerated
- No constraint on customer usage
- Data generated by customer and stored in a database
- Third-party dependencies remain available

## 5. Release Requirements

This section provides user stories and non-functional requirements for the current release.

P : priority value (1 to 5; 1 for highest priority and 5 for lowest priority)

SP : story point value (0, 1, 2, 3, 5, 8, 13, 20, 40; measure of overall effort to complete the task)

### 5.1 User Stories

- US-1 As a customer, I want to see the list of products so that I know what products are available for purchase. (P 5, SP 2)
- US-2 As a customer, I want to see the product details so that I understand the product that I want to purchase. (P 4, SP 5)
- US-3 As a customer, I want to be able to add to a cart so that I can purchase multiple products at a time. (P 3, SP 5)
- US-4 As a customer, I want to view the items in my cart so that I know what items I have ready for purchase. (P 3, SP 2)
- US-5 As a customer, I want to update the cart item quantity so that I can correct the number of items I want to buy (P5, SP 5)
- US-6 As a customer, I want to remove items from the cart so that I can remove items I don't want to buy (P 5, SP 5)
- US-7 As a customer, I want to be able to view my subtotal in my cart so that I can estimate my budget. (P 5, SP 3)
- US-8 As a customer, I want to be able to check out as a guest so that I don't have to create an account (P 4, SP 13)

- US-9 As a customer, I want to search for items so that I can save time finding what I want (P 3, SP 8)
- US-10 As a customer, I want to filter the products so that I can find products faster (P 2, SP 5)
- US-11 As a customer, I want to see sample dishes so that I know how to use the pepper at home. (P 1, SP 5)
- US-12 As a customer, I want a receipt of my purchase so that I can track what was purchased. (P 5, SP 3)
- US-13 As a customer, I want to be able to create an account so that I have a personalized experience. (P 5, SP 8)
- US-14 As a customer, I want my shopping cart to be saved when logging out, so that I don't have to re-add the products (P4, SP 8)
- US-15 As a customer, I want to see a list of past purchases so that I can keep track of what I bought. (P 3, SP 13)
- US-16 As a customer, I don't want to enter my shipping info every purchase so that I can check out faster. (P 2, SP 8)
- US-17 As a customer, I want to be able to contact the support team so that I can get some help if anything goes wrong. (P 1, SP 3)

## 5.2 Non-Functional Requirements

- NFR-1 As a customer, I want the site to be available 99% of the time I try to access it, so I don't get frustrated and go to another site.
- NFR-2 As a customer, I want the site to be fast and responsive, so I don't get frustrated and go to another site.
- NFR-3 As a customer, I want the site to intuitive and easy to use, so I don't get frustrated and go to another site.
- NFR-4 As a developer, I want the code to be modular, so I change make fixes and introduce new features quickly.
- NFR-5 As a developer, I want the code to follow the MVC pattern, so I can more easily maintain the code.

## 6. Use-Cases

This section provides the descriptions of typical interactions between a stakeholder and the system to achieve a goal.

### 6.1 Textual

#### UC-1 Display all products

##### *Description*

A customer visits Jalapeñcode on a web browser and see a list of products available for purchase.

##### *Primary Actor*

Customer

##### *Pre-conditions*

Database is populated with products for sale.



Website is accessible via a web browser.

JavaScript is enabled on the web browser.

*Post-condition Success*

Customer sees a list of products for sale on the webpage.

*Post-condition Failure*

Customer visits the webpage and no products are displayed.

*Main Success Scenario*

1. Customer enters the Jalapeñcode URL into the browser.
2. The webpage display a list of products of sale.

*Extensions*

None

UC-2 Display product details

*Description*

A customer visits Jalapeñcode on a web browser and see a list of products available for purchase. When the customer looks at a specific product, a preview of the product description is displayed. Hovering over the description preview will pull up the full product's description in a tooltip.

*Primary Actor*

Customer

*Pre-conditions*

UC-1

*Post-condition Success*

Customer navigates to a specific product and sees the product details.

*Post-condition Failure*

Customer navigates to a specific product and fails to see the product description.

*Main Success Scenario*

1. Customer enters the Jalapeñcode URL into the browser.
2. The webpage display a list of products of sale.
3. Customer navigates to a specific product and sees a preview of the product details.

*Extensions*

4a. In step 4, the customer clicks on the product card.

1. The browser displays a webpage for the specific product.
2. Customer sees the full product details.

UC-3 Add item to cart

*Description*

A customer visits Jalapeñcode on a web browser and see a list of products available for purchase. The customer navigates to a specific item and clicks the "Add to cart" button. The item is added to the customer's cart.

*Primary Actor*

Customer

*Pre-conditions*

UC-1 and UC-2

Products are available.

*Post-condition Success*

Product is added to the customer's cart. The product's inventory is updated.

*Post-condition Failure*

Product is not added to the customer's cart. The product's inventory is unchanged.

*Main Success Scenario*

1. Customer navigates to a specific product and clicks the "Add to cart" button.
2. Product is added to the customer's cart.
3. The page is updated to reflect the addition.
4. The product's inventory is updated.

*Extensions*

- 2a. In step 2, the customer clicks on the product card.
  1. The browser displays a webpage for the specific product.
  2. Edit the quantity amount
  3. Customer clicks the "Add to cart" button.
  4. Product is added to the customer's cart.
  5. The page is updated to reflect the addition.
  6. The product's inventory is updated.

UC-4 View cart content

*Description*

A customer visits Jalapeñcode on a web browser. The customer clicks on the cart button.  
The browser displays a webpage with the content of the customer's cart.

*Primary Actor*

Customer

*Pre-conditions*

UC-1 and UC-2

*Post-condition Success*

Customer sees the cart content.

*Post-condition Failure*

Customer fails to see the cart content.

*Main Success Scenario*

1. Customer enters the Jalapeñcode URL into the browser.
2. Customer clicks on the cart button.
3. The browser displays a webpage with customer's cart content.

*Extensions*

- 2a. In step 2, the customer looks at the cart button to see the number of items in the cart.

UC-5 Update cart content

*Description*

A customer visits Jalapeñcode on a web browser. The customer has added items into the cart and visited the cart page. The customer decides to add or reduce the quantity of an item in the cart.

*Primary Actor*

Customer

*Pre-conditions*

UC-4

The customer has added items into the cart.

*Post-condition Success*

Product quantity in the customer's cart is updated. The product's inventory is updated.

*Post-condition Failure*

Product quantity in the customer's cart remains unchanged. The product's inventory is unchanged.

*Main Success Scenario*

1. Customer is at the cart page.
2. Customer edits a product quantity.
3. The customer's cart is updated to reflect the quantity update.
4. The page is updated to reflect the quantity update.
5. The product's inventory is updated.

*Extensions*

None

UC-6 Remove cart content*Description*

A customer visits Jalapeñcode on a web browser. The customer has added items into the cart and visited the cart page. The customer decides remove an item from the cart.

*Primary Actor*

Customer

*Pre-conditions*

UC-4

The customer has added items into the cart.

*Post-condition Success*

Product is removed from the customer's. The product's inventory is updated.

*Post-condition Failure*

Product remains in the customer's cart. The product's inventory is unchanged.

*Main Success Scenario*

1. Customer is at the cart page.
2. Customer clicks on the remove button for a product.
3. The product is removed from the customer's cart.
4. The cart page is updated to reflect the removal.
5. The product's inventory is updated.

*Extensions*

None

UC-7 View cart subtotal*Description*

A customer visits Jalapeñcode on a web browser. The customer visits the cart page. The browser displays a webpage with the subtotal cost of the customer's cart.

*Primary Actor*

Customer

*Pre-conditions*

Database is populated with products for sale.

Website is accessible via a web browser.

JavaScript is enabled on the web browser.

*Post-condition Success*

Customer subtotal cost of the cart.

*Post-condition Failure*

Customer fails to see the subtotal of the cart or incorrect subtotal is displayed.

*Main Success Scenario*

1. Customer enters the Jalapeñcode URL into the browser.
2. The webpage display a list of products of sale.
3. Customer clicks on the cart button.
4. The browser displays a webpage with customer's cart content.

*Extensions*

None

UC-8 Guest Checkout*Description*

A customer will visit Jalapeñcode on a web browser. The customer has added items into the cart and visited the cart page. The customer wants to purchase the items in the cart.

*Primary Actor*

Customer

*Pre-conditions*

UC-4

The customer has added items into the cart.

*Post-condition Success*

Customer cart is purchased. The database is updated to reflect the purchase.

*Post-condition Failure*

Customer fails to purchase items. The database remains unchanged.

*Main Success Scenario*

1. The customer is at the cart page.
2. Customer clicks on "Proceed to checkout" button.
3. The browser displays a webpage for shipping/billing information.
4. The customer fills out the required fields.
5. The customer clicks on "Submit order" button.
6. The browser displays a webpage informing the customer that the order is processed.
7. The database is updated to reflect the purchase.

*Extensions*

None

UC-9 Search for product*Description*

A customer visits Jalapeñcode on a web browser. The customer enters a product name in the search field and hits enter. The browser is redirected back the main page, displaying products matching the search result.

*Primary Actor*

Customer

*Pre-conditions*

UC-1

*Post-condition Success*

Customer's browser is redirected to the main page, which displays the products matching the search result.

*Post-condition Failure*

Customer browser remains on the same page or is redirected to the main page that displays all items.

*Main Success Scenario*

1. Customer clicks on the search field, enters a search string, and hits enter.
2. The browser is redirected to the main page.
3. The browser displays products matching the search string.

*Extensions*

None

UC-10 Filter products

*Description*

A customer visits Jalapeñcode on a web browser. The customer clicks on the filter button to display the filter options. The customer clicks on the desired filter options to filter the displayed products.

*Primary Actor*

Customer

*Pre-conditions*

UC-1

*Post-condition Success*

Customer sees products matching the filter options.

*Post-condition Failure*

Customer sees all products displayed or products matching the filter options are not displayed.

*Main Success Scenario*

1. Customer enters the Jalapeñcode URL into the browser.
2. Customer clicks on the filter button.
3. The browser displays products matching the filter options.

*Extensions*

None

UC-11 Display sample product dishes

*Description*

A customer visits Jalapeñcode on a web browser and navigates to a single product page.

*Primary Actor*

Customer

*Pre-conditions*

UC-1 and UC-2

*Post-condition Success*

Customer navigates to a specific product and sees links to sample dishes.

*Post-condition Failure*

Links to the sample dishes are incorrect.

*Main Success Scenario*

1. Customer enters the Jalapeñcode URL into the browser.

2. The customer navigates to an individual product page.
3. Customer sees sample dishes.

*Extensions*

None

UC-12 Display receipt*Description*

After the checkout process has completed, the customer is presented with a receipt.

*Primary Actor*

Customer

*Pre-conditions*

UC-8

*Post-condition Success*

Customer is presented with a receipt page.

*Post-condition Failure*

The customer completes a purchase. No receipt is presented.

*Main Success Scenario*

1. Customer completes the checkout process.
2. A webpage with the purchase receipt is displayed.

*Extensions*

None

UC-13 Create account*Description*

A customer visits the account registration page and creates an account with a unique username.

*Primary Actor*

Customer

*Pre-conditions*

Database has tables to for account and session handling.

Website is accessible via a web browser.

JavaScript is enabled on the web browser.

*Post-condition Success*

Customer creates an account. The database is updated with the customer's information.

*Post-condition Failure*

Customer fails to create an account. The database remains unchanged.

*Main Success Scenario*

1. Customer navigates to the account registration page.
2. Customer enters the desired username and password.
3. A new account is added to the database.
4. Customer is presented with a page to enter personal information.
5. Customer enters personal information.
6. The database is updated with the customer's personal information

*Extensions*

None

UC-14 Save cart*Description*

A customer signs into his/her account and adds item to the cart. The customer signs out. The cart items from the previous session is saved for the next time the customer signs in.

*Primary Actor*

Customer

*Pre-conditions*

UC-3 and UC-13

*Post-condition Success*

Customer signs out. The existing cart is saved to the database.

*Post-condition Failure*

Customer signs out. The existing cart is lost, and the database remains unchanged.

*Main Success Scenario*

1. Customer signs into his/her account.
2. Customer adds items to the cart.
3. Customer signs out.

*Extensions*

None

UC-15 Display past orders*Description*

A customer signs into his/her account and navigates to the order history page. The customer is presented with past orders.

*Primary Actor*

Customer

*Pre-conditions*

UC-12 and UC-13

*Post-condition Success*

Customer is presented a page with all past orders.

*Post-condition Failure*

Customer is presented with a blank page.

*Main Success Scenario*

4. Customer signs into his/her account.
5. Customer clicks on the past order link.
6. A webpage containing the customer's past orders is presented.

*Extensions*

None

UC-16 Autofill checkout form*Description*

A customer signs into his/her account, adds items into the cart, and proceeds to checkout. The checkout form is automatically populated with the customer's personal information

*Primary Actor*

Customer

*Pre-conditions*

UC-8 and UC-13

*Post-condition Success*

The checkout form is populated with the customer's personal information.

*Post-condition Failure*

The checkout form is presented with empty fields.

*Main Success Scenario*

1. Customer signs into his/her account.
2. Customer adds items to the cart and proceeds to checkout.
3. The checkout form is populated with the customer's personal information.

*Extensions*

None

UC-17 Display support contact

*Description*

A customer navigates to the about page and sees the customer support contact information.

*Primary Actor*

Customer

*Pre-conditions*

Website is accessible via a web browser.

*Post-condition Success*

Customer is presented a page with the customer support contact information.

*Post-condition Failure*

Customer is presented with a blank page.

*Main Success Scenario*

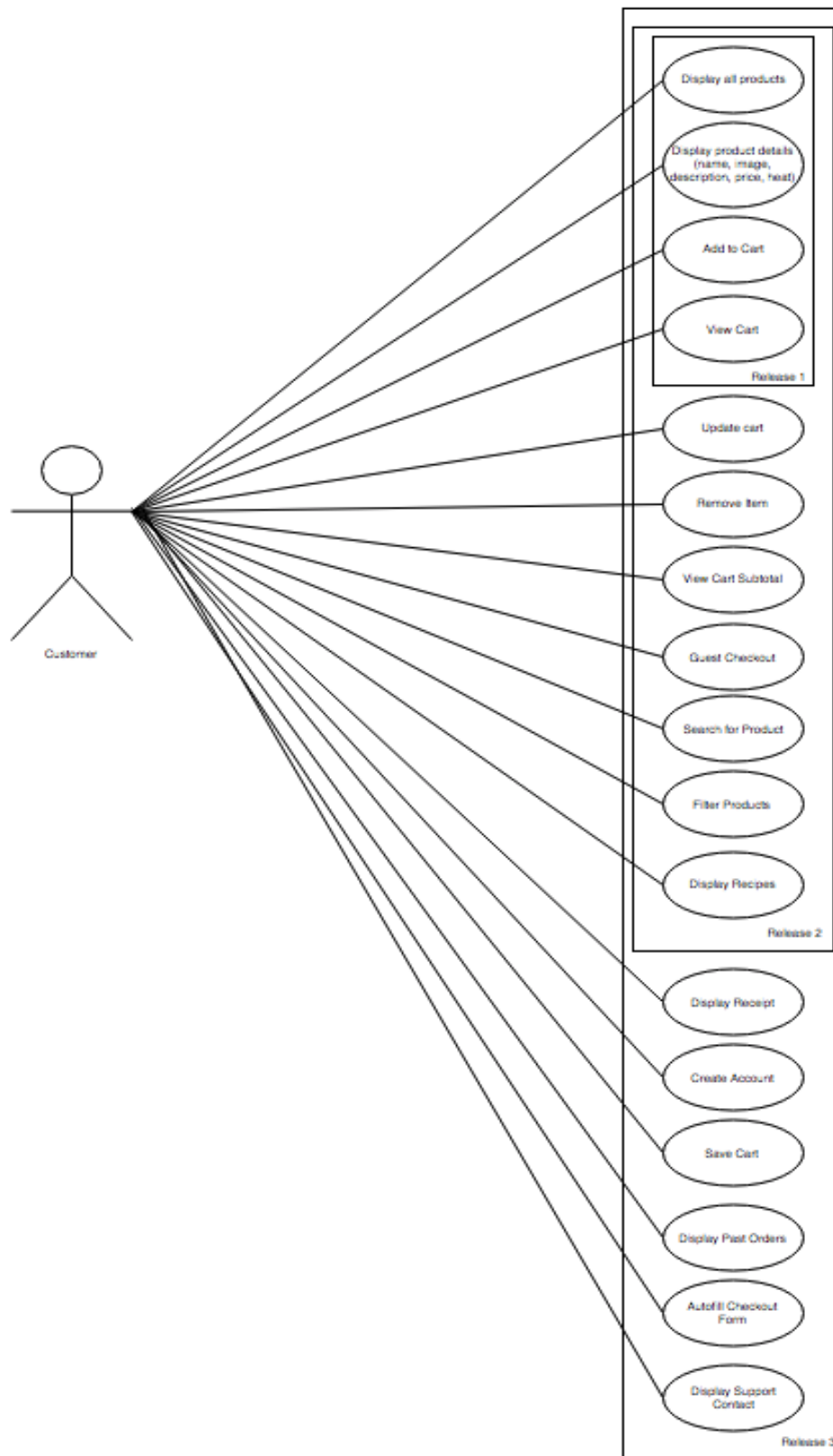
1. Customer navigates to the about page.
2. The page displays the customer support contact information.

*Extensions*

None

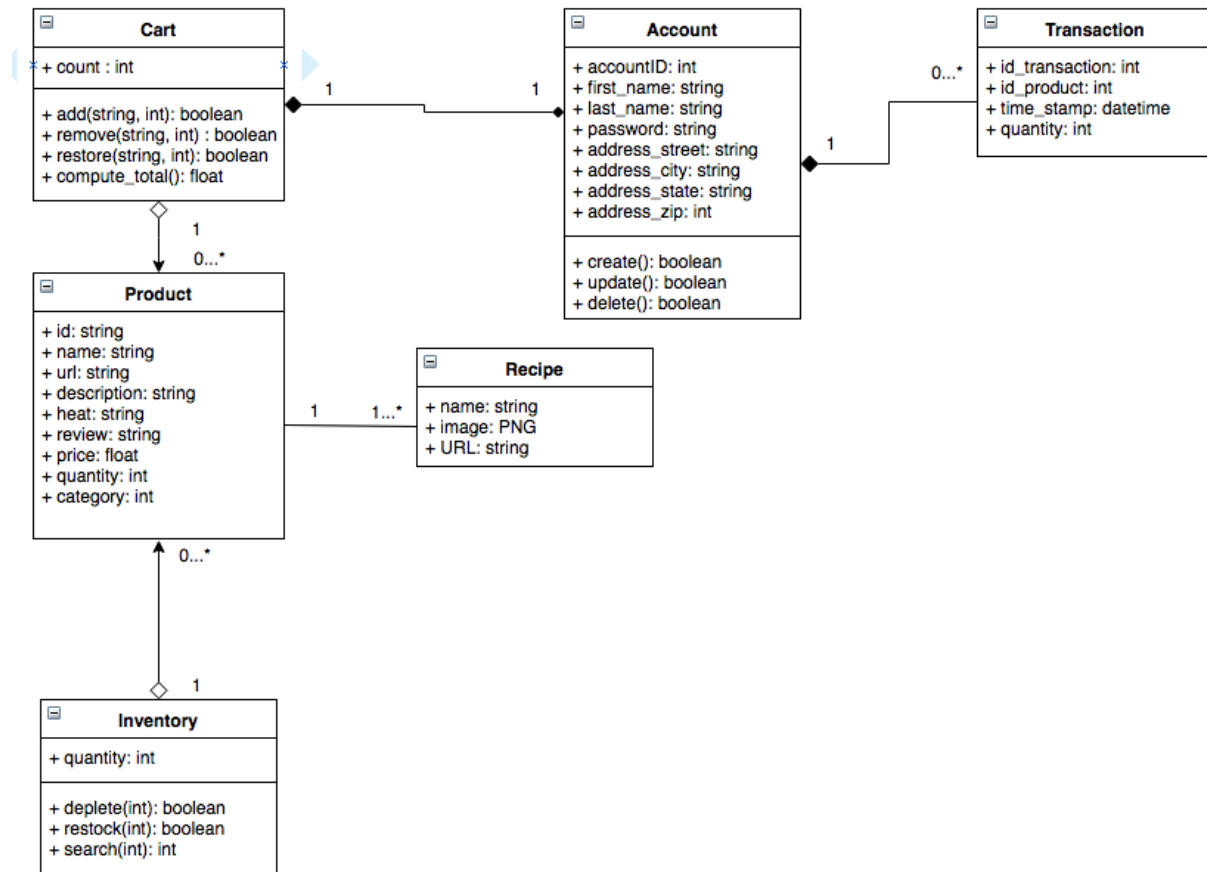


## 6.2 Use-Case Diagram



## 7. Class Diagram

This section provides a screenshot of the class diagram.



## 8. CRC Cards

This section provides the CRC cards.

Cart	
<ul style="list-style-type: none"><li>• Keeps track of customer products</li><li>• Keeps track of subtotal</li><li>• Checkout</li></ul>	<ul style="list-style-type: none"><li>• Inventory</li><li>• Product</li></ul>

Account	
<ul style="list-style-type: none"><li>• Keeps track of user shipping information</li><li>• Keeps track of user billing information</li><li>• Ties cart to user account</li><li>• Tracks transaction history</li></ul>	<ul style="list-style-type: none"><li>• Cart</li><li>• Transaction</li></ul>

Transaction	
<ul style="list-style-type: none"><li>• Keeps track which products were purchased</li></ul>	<ul style="list-style-type: none"><li>• Account</li><li>• Product</li></ul>

Recipe	
<ul style="list-style-type: none"><li>• Keeps track of recipes</li></ul>	

Product	
<ul style="list-style-type: none"><li>• Contains information about a product</li></ul>	<ul style="list-style-type: none"><li>• Inventory</li></ul>

Inventory	
<ul style="list-style-type: none"><li>• Keeps track of the all products</li></ul>	<ul style="list-style-type: none"><li>• Products</li></ul>

## 9. Testing

This section provides the test log and test cases.

### 9.1 Test Log

Requirement Number Tested	Test Case Number	Test Case Description	Date Tested	Pass (P)	Fail (F)
UC-3	TC-1	Test add to cart.	11/13/17	P	
UC-2	TC-2	Test display product detail.	11/15/17	p	
UC-7	TC-3	Test view cart subtotal.	11/15/17	p	
UC-8	TC-4	Test checkout.	11/15/17	p	
UC-10	TC-5	Test filter products.	11/15/17	p	
UC-9	TC-6	Test search bar.	11/15/17	p	
UC-11	TC-7	Test sample recipes.	11/27/17	p	
UC-13	TC-8	Test create account.	11/27/17	p	
UC-13	TC-9	Test account sign in.	11/27/17	p	
UC-13	TC-10	Test account sign out.	11/27/17	p	
			<b>TOTAL (Pass/Fail )</b>	10	0

### 9.1 Test Cases

**Test Case #:** TC-1

**System:** Jalapeñcode

**Designed by:** Jeffrey Liv

**Executed by:** Jeffrey Liv

**Short Description:** Test add to cart.

**Pre-conditions**

Items must be available to be added to the cart.

Cart must exist in order to hold items.

**Test Case Name:** Add to Cart

**Subsystem:** Add to Cart

**Design Date:** 11/13/17

**Execution Date:** 11/13/17

Step	Action	Expected System Response	Pass /Fail	Comment
1	Press “add to cart” button	System adds desired item into the cart and iterates the count of items in the cart	Pass	

**Post-conditions**

Desired items are added into the cart and are available to be viewed.

Cart item count is modified every time a new item is added.

**Test Case #:** TC-2

**Test Case Name:** Display Product Details

**System:** Jalapeñcode

**Subsystem:** Product Details

**Designed by:** Jeffrey Liv

**Design Date:** 11/15/17

**Executed by:** Jeffrey Liv

**Execution Date:** 11/15/17

**Short Description:** Test display product detail.

**Pre-conditions**

All items must be displayed.

Step	Action	Expected System Response	Pass /Fail	Comment
1	Click on an item	Product detail page should display	Pass	

**Post-conditions**

Item's product details should contain, name, heat rating, product description, price, and quantity remaining.

Product detail page should also contain links to recipes related to the item.

Product detail page should also contain an "Add to cart" button

**Test Case #:** TC-3

**Test Case Name:** View Subtotal

**System:** Jalapeñcode

**Subsystem:** Subtotal

**Designed by:** Jeffrey Liv

**Design Date:** 11/15/17

**Executed by:** Jeffrey Liv

**Execution Date:** 11/15/17

**Short Description:** Test view cart subtotal

**Pre-conditions**

Cart system must be implemented and functional.

Step	Action	Expected System Response	Pass /Fail	Comment
1	Press cart button	Subtotal is displayed at the bottom of the items in the cart.	Pass	

**Post-conditions**

Subtotal should be displayed at the bottom of the items in the cart.

Subtotal displayed should be the correct price.

**Test Case #:** TC-4

**Test Case Name:** Checkout

**System:** Jalapeñcode

**Subsystem:** Checkout

**Designed by:** Mark Yang

**Design Date:** 11/15/17

**Executed by:** Mark Yang

**Execution Date:** 11/15/17

**Short Description:** Test checkout.

**Pre-conditions**

Cart must be implemented and functional.

Step	Action	Expected System Response	Pass /Fail	Comment
1	Press cart button	Cart will be displayed	Pass	

2	Press proceed to checkout button	Checkout page will be displayed	Pass	
3	Fill in all shipping and billing information		Pass	
4	Press submit order button	Order will be submitted	Pass	

**Post-conditions**

Order is submitted

**Test Case #:** TC-5

**System:** Jalapeñcode

**Designed by:** Mark Yang

**Executed by:** Mark Yang

**Short Description:** Test filter products.

**Pre-conditions**

All items must be displayed.

**Test Case Name:** Filter Items

**Subsystem:** Filter

**Design Date:** 11/15/17

**Execution Date:** 11/15/17

Step	Action	Expected System Response	Pass /Fail	Comment
1	Press filter button	Drop-down menu should appear	Pass	
2	Use check boxes to filter price	Items with a certain price should be displayed	Pass	
3	Use check boxes to filter heat rating	Items with certain heat ratings should be displayed	Pass	

**Post-conditions**

Filter feature will display items that fit the criteria of the filters used.

**Test Case #:** TC-6

**System:** Jalapeñcode

**Designed by:** Hympt Nguyen

**Executed by:** Hympt Nguyen

**Short Description:** Test search bar.

**Pre-conditions**

All items must be displayed.

**Test Case Name:** Search Bar

**Subsystem:** Search

**Design Date:** 11/15/17

**Execution Date:** 11/15/17

Step	Action	Expected System Response	Pass /Fail	Comment
1	Click on the search bar	Search bar is available to receive input	Pass	
2	Search for desired item(s)	Desired item(s) should be displayed	Pass	

**Post-conditions**

Desired item(s) will be displayed.

**Test Case #:** TC-7

**System:** Jalapeñcode

**Designed by:** Alex Athas

**Test Case Name:** Recipes

**Subsystem:** Recipe

**Design Date:** 11/27/17

**Executed by:** Alex Athas**Execution Date:** 11/27/17**Short Description:** Customers should be able to find recipes for each pepper that is sold on Jalapeñcode along with a link to the recipe.**Pre-conditions**

Product Details page must be running and accessible.

Step	Action	Expected System Response	Pass /Fail	Comment
1	Click on a item	Product details page appears	Pass	
2	Click on a recipe	Link will take you to recipe web page	Pass	

**Post-conditions**

Customer will find themselves at their desired recipe web page where they can follow the recipe and make the dish.

**Test Case #:** TC-8**Test Case Name:** Create Account**System:** Jalapeñcode**Subsystem:** Account**Designed by:** Alex Athas**Design Date:** 11/27/17**Executed by:** Alex Athas**Execution Date:** 11/27/17**Short Description:** A guest has the option of creating an account on Jalapeñcode.**Pre-conditions**

Account data structure must be set up

Front end preparations must be complete

Step	Action	Expected System Response	Pass /Fail	Comment
1	Click on register	Registration page will show up	pass	
2	Fill in information	All text boxes are fillable	pass	
3	Confirm information then submit	Account is created	pass	

**Post-conditions**

The guest will now have an account in which they can browse Jalapeñcode with

**Test Case #:** TC-9**Test Case Name:** Account Sign In**System:** Jalapeñcode**Subsystem:** Account**Designed by:** Hympt Nguyen**Design Date:** 11/27/17**Executed by:** Hympt Nguyen**Execution Date:** 11/27/17**Short Description:** After a customer has created an account, they can log into their account on Jalapeñcode.**Pre-conditions**

Customer's account must exist before attempting to log in.

Step	Action	Expected System Response	Pass /Fail	Comment
1	Press login	Login menu will appear	pass	
2	Enter username and password, then press enter	Customer is now logged into their account	pass	

**Post-conditions**

Customer is now logged into their account

**Test Case #:** TC-10

**System:** Jalapeñcode

**Designed by:** Alex Athas

**Executed by:** Alex Athas

**Short Description:** A customer should have the option to sign out of his account if he no longer wants to be logged into Jalapeñcode.

**Pre-conditions**

Customer must be logged into their account in order to sign out

**Test Case Name:** Account Sign Out

**Subsystem:** Account

**Design Date:** 11/27/17

**Execution Date:** 11/27/17

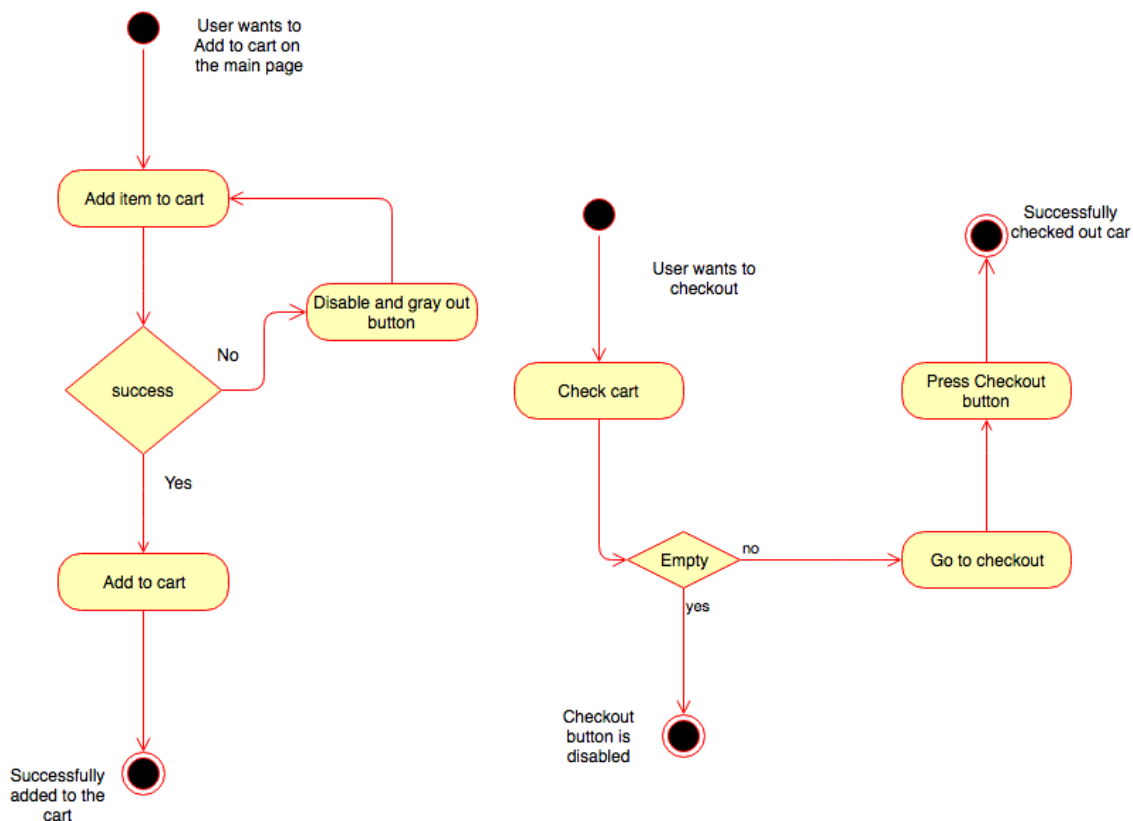
Step	Action	Expected System Response	Pass /Fail	Comment
1	Click on account tab	Account tab should expand	pass	
2	Click on sign out	Account should be signed out	pass	

**Post-conditions**

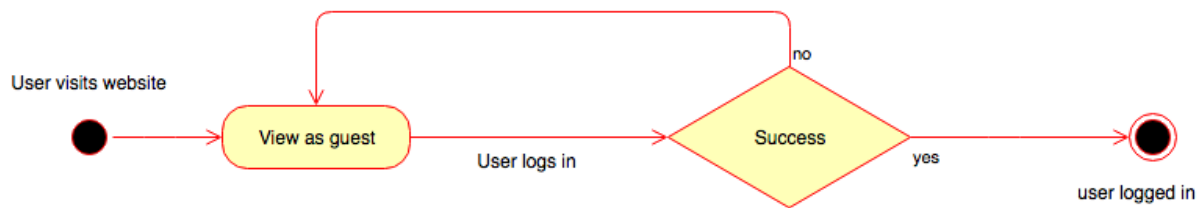
Account should no longer be signed in

## 10. State diagrams

This section provides a screenshot of three state diagrams.

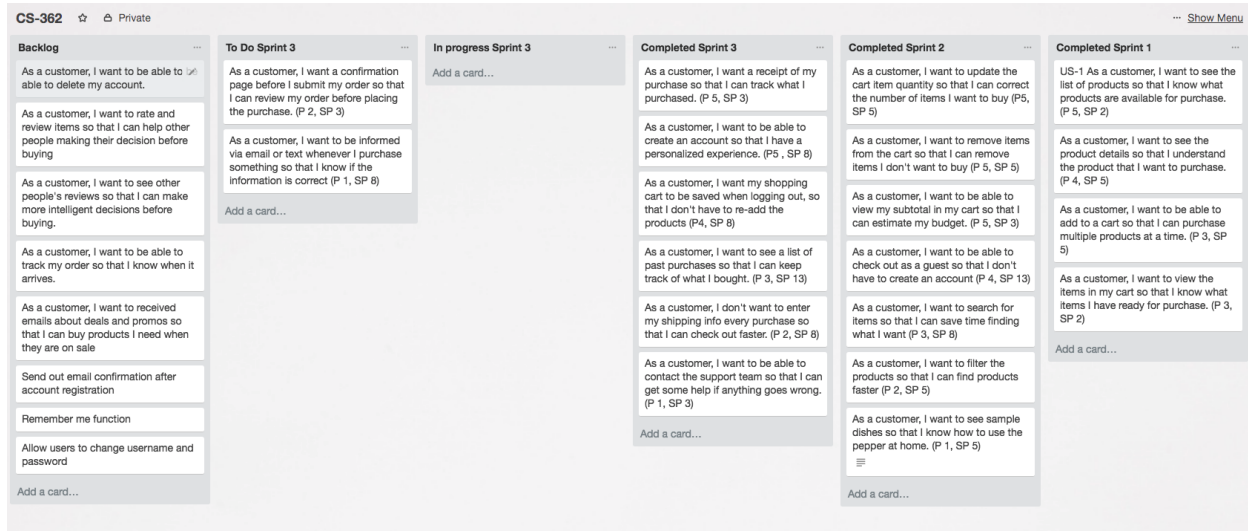






## 11. Sprint Backlog

This section provides a screenshot of the Trello Kanban board.



## 12. Pre-game Planning

This section provides insight on the team's pre-game planning process.

### 12.1 Explanation

The pre-game planning process began with the team deciding which core user stories were required for the first sprint. Everyone chose 2 to 3 user stories that they believed to be required. Each person presented their user stories and said why the user story was chosen. From the chosen user stories, the team came to an agreement on the 5 key user stories to be included in the sprint.

Next, the team played a game of planning poker for each of the 5 user stories, and each member was given sheets of paper with a story point number (1, 2, 3, 5, 8). When a user story was selected, the team was given a few minutes to think about the overall effort needed to complete

the user story. When the time stopped, each member put down one of their story point paper. The team went with the medium number as the story point value.

## 13. Staging & Grooming

This section provides insight on the team's process of identifying and prioritizing requirements for this release.

### 13.1 Explanation

Before the project began, the team already had a clear vision in mind. Our goal is to create a shopping website, similar to Amazon, but with an initial product inventory of chili peppers.

As mentioned in the pre-game planning section, each team member chose 2 to 3 user stories that they believed to be required for this release. From the selected items, the team narrowed it down to a core 5 user stories.

After the initial user stories had been selected, the team groomed the backlog by first grouping related stories together. Then the team reorganized the groupings based on the feature order listed in section 3.1. The priority and story point values will be determined at a later date.

When the first 5 user stories were implemented, the next step was to add a shopping cart feature. The first steps to creating a shopping cart is letting a user add to the cart and view the cart, which is why those user stories were included. Before the stories were officially added to this release, the team played another round of planning poker to determine the priority and story point values.

In the 2<sup>nd</sup> iteration, the team identified additional requirements by taking a closer look at how competitors designed their software. The newly identified requirements were then grouped to similar requirements that were found in the 1<sup>st</sup> iteration. Within the grouping, the new requirements were then prioritized by how critical the requirement was to a functioning shopping cart software and value added to customers.

## 14. Development Process & Documentation

This section provides details about the development process and documentation activities for this release.

### 14.1 Explanation

The development of Jalapeñcode is broken into two parts: back-end and front-end.

The back-end team utilized MySQL for the database and PHP for the server script. The team's first step was to create a simple web server. The team then went on to designing the database tables and populating the database with the initial products. Afterwards, a meeting was held with the front-end team to determine how data would be transferred between the server and client

browser. As the front-end team finished designing a page, the back-end team would create the appropriate PHP script to support the page.

The front-end team utilized Bootstrap for the UI and jQuery to simplify the JavaScript development. The team decided to loosely follow the MVC design pattern to keep the code easier to read and more maintainable. The front-end developed the pages by following the priority order of the user stories.

For documentation, each team initially started by documenting features as comments within the code. As the project grew, the entire team began using a master README file to document the development progress and completion of each feature. The documentation includes how to run the server for development and for production.

## 15. User Manual

This section provides the instructions with pictures of how to navigate through Jalapeñcode.

### 15.1 Home Page

Click on a product's name or image to go to the product page.

Click on the cart button to go to the cart page.

The screenshot shows the Jalapeñcode website interface with various annotations for user navigation:

- Search field:** Located at the top right of the header.
- Cart button with number of items in cart:** Located at the top right, showing a shopping cart icon and the number 21.
- Filter button to display/hide filter options:** A button labeled "Filters" with a funnel icon.
- Filter options:** A section below the filter button showing "Price" (with radio buttons for \$, \$\$, \$\$\$, \$\$\$\$, \$\$\$\$\$) and "Heat" (with radio buttons for 1, 2, 3, 4, 5, 6, 7, 8, 9, 10).
- Product image:** An annotation pointing to the image of a jalapeño pepper.
- Product name:** An annotation pointing to the text "Jalapeno".
- Product heat rating:** An annotation pointing to the three red chili icons below the product name.
- Product description preview:** An annotation pointing to the text "The jalapeno or jalapeno is ...".
- Product price:** An annotation pointing to the price "\$1".
- Tooltip with full product description:** A tooltip box that appears when hovering over the "Add to cart" button, containing detailed information about serrano peppers.
- Button to add product to cart:** An annotation pointing to the yellow "Add to cart" button.

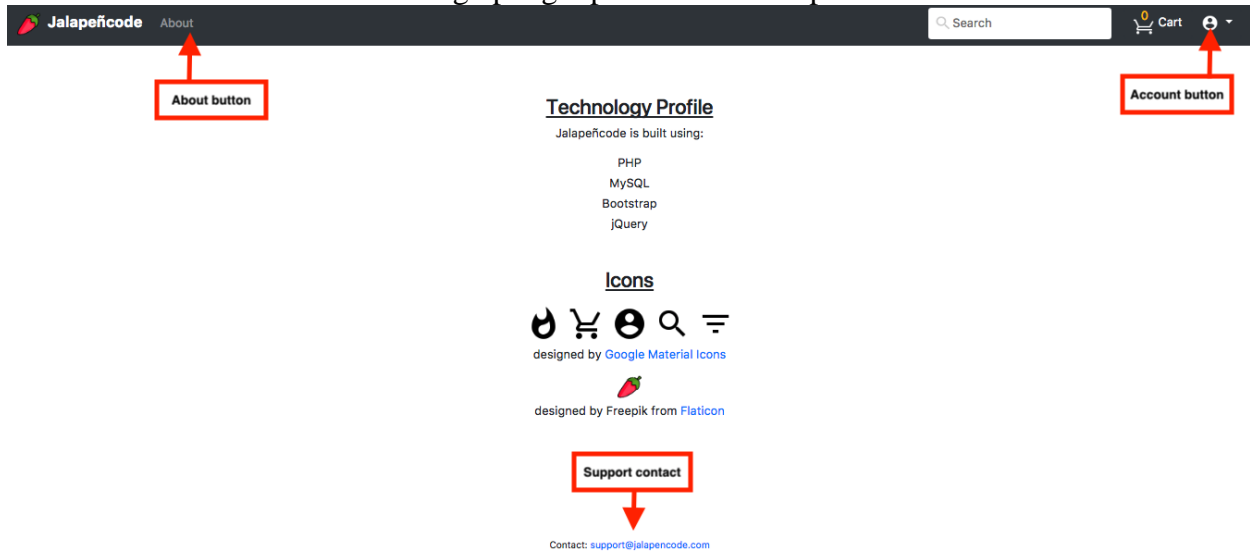
The main product grid displays the following items:

- Jalapeno:** Price \$1, Heat rating 3.
- Chipotle:** Price \$2, Heat rating 4.
- Serrano:** Price \$2, Heat rating 4.
- Tabasco:** Price \$2, Heat rating 4.
- Cayenne:** Price \$2, Heat rating 4.
- Thai Pepper:** Price \$2, Heat rating 4.
- Datil:** Price \$2, Heat rating 4.
- Fatalii:** Price \$2, Heat rating 4.
- Carolina Reaper:** Price \$2, Heat rating 4.

## 15.2 About Page

Click on the about button to bring up the about page.

Click on the account button to bring up login panel or account panel.

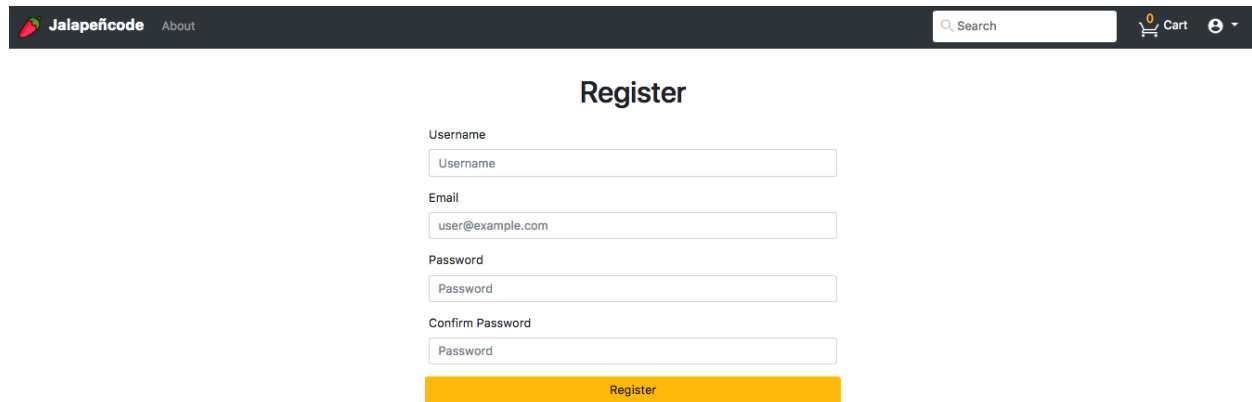


## 15.3 Login Panel

Click on the register button to bring up the register page.

The screenshot shows the login panel, which is a white box with a light gray border. It contains a 'Username' label, a text input field with 'Username' placeholder text, a 'Password' label, a text input field with 'Password' placeholder text, a yellow 'Sign in' button, and a link 'New here? Register'.

## 15.4 Register Page

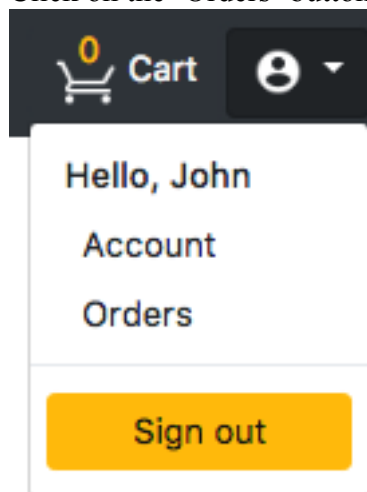


The screenshot shows the 'Register' page of the Jalapeñcode application. At the top is a dark navigation bar with the Jalapeñcode logo, an 'About' link, a search bar, a cart icon with '0' items, and a user profile icon. The main heading is 'Register'. Below it are four input fields: 'Username' (containing 'Username'), 'Email' (containing 'user@example.com'), 'Password', and 'Confirm Password' (containing 'Password'). A yellow 'Register' button is at the bottom.


## 15.5 Account Panel



Click on the 'Accounts' button to bring up the register page.

Click on the 'Orders' button to bring up the order history page.



## 15.6 Account Page

 **Jalapeñcode** [About](#)

 **Cart** 

First name

Last name

Email

Address


Address 2



City

State





Zip

## 15.7 Order History Page


 **Jalapeñcode** [About](#)


 **Cart** 


Order History

ORDER PLACED Mon Dec 04 2017	TOTAL \$2.17	ORDER # 33g6m8230adftm57aqht0s4k2
 Cayenne	Quantity: 1	
ORDER PLACED Sun Dec 03 2017	TOTAL \$27.12	ORDER # 9pfgvghqdn6uanc0ffvn95I41
 Carolina Reaper	Quantity: 5	
ORDER PLACED Sun Dec 03 2017	TOTAL \$5.42	ORDER # bjc28kn8pi2nthhcp0tj3h3us3
 Jalapeno	Quantity: 1	
 Chipotle	Quantity: 1	

## 15.8 Product Page

 **Jalapeñcode** [About](#)

 **21** Cart




## Jalapeno

The jalapeno or jalapeno is a medium to large size chili pepper which is prized for the warm, burning sensation when eaten. Ripe, the jalapeno can be 2 to 3.5 inches long and is commonly sold when still green. It is a cultivar of the species *Capsicum annuum*. It is named after the town of Xalapa, Veracruz, where it was traditionally produced. 160 square kilometres are dedicated for the cultivation of jalapeno in Mexico alone; primarily in the Papaloapan river basin in the north of the state of Veracruz and in the Delicias, Chihuahua area. The jalapeno is known by different names throughout Mexico. Jalapenos are also known as cueresmenos, huachinangos and chiles gordos. The jalapeno rates between 2,500 and 10,000 Scoville units in heat.


Price: **\$1.00**

Quantity remaining: **15**


[Link to sample recipes](#)



Jalapeno Hummus



Jalapeno Popper Chicken



Stuffed Jalapeno


Quantity:


Add to cart

Quantity to add to cart



Button to add product into cart

## 15.9 Cart Page

 **Jalapeñcode** [About](#)



 **3** Cart

### Shopping Cart

	Price	Quantity
 <a href="#">Remove</a>	<b>Tabasco</b>	<b>\$2.00</b>
 <a href="#">Remove</a>	<b>Serrano</b>	<b>\$2.00</b>
<b>Subtotal (3 items):</b>		<b>\$6.00</b>

[Proceed to checkout](#)

### Saved items

 <a href="#">Move to cart</a> <a href="#">Delete</a>	<b>Chipotle</b>	Quantity: 4
 <a href="#">Move to cart</a> <a href="#">Delete</a>	<b>Serrano</b>	Quantity: 3

## 15.10 Checkout Page



The screenshot shows a checkout form with the following fields and annotations:

- Fields for user information:** A red box highlights the first name, last name, email, address, city, state, zip, credit card number, CVV, and expiration date fields.
- Button to submit order:** A red box highlights the "Submit order" button.
- Order Summary:** A box on the right showing the order details:
 

Order Summary	
Items:	\$32.00
Tax & Handling:	\$2.72
<b>Order Total:</b>	<b>\$34.72</b>
- Cart total cost:** A red box highlights the "Order Total" value of \$34.72.

## 15.11 Receipt Page

The screenshot shows the receipt page with the following content:

Thank you for your order!

Receipt	
Order placed: December 14, 2017	
Order number: jatblu2506p7qtu08kf805f2o5	
Address: John Doe 123 Main St Unit 1 Anytown, CA 12345	Order subtotal: \$6.00 Shipping & handling: \$0.51 ----- Order total: \$6.51

[Return to main page](#)

## 16. References

This section provides the technologies used and research references.

### 16.1 Technology Profile

PHP	<a href="https://www.php.net/">https://www.php.net/</a>
MySQL	<a href="https://www.mysql.com/">https://www.mysql.com/</a>
Bootstrap	<a href="https://www.getbootstrap.com/">https://www.getbootstrap.com/</a>
jQuery	<a href="https://www.jquery.com/">https://www.jquery.com/</a>

## 16.2 Icon Attribution

Material Design <https://www.material.io/icons/>  
Flat Icon <https://www.flaticon.com/>

## 16.3 Research

[https://en.wikipedia.org/wiki/Chili\\_pepper](https://en.wikipedia.org/wiki/Chili_pepper)  
[https://en.wikipedia.org/wiki/Hot\\_sauce](https://en.wikipedia.org/wiki/Hot_sauce)  
[https://en.wikipedia.org/wiki/List\\_of\\_hot\\_sauces](https://en.wikipedia.org/wiki/List_of_hot_sauces)  
[https://en.wikipedia.org/wiki/Columbian\\_Exchange](https://en.wikipedia.org/wiki/Columbian_Exchange)  
<https://www.savoryspiceshop.com/gather-round-the-table/the-columbian-exchange.html>  
<https://amazon.com/>