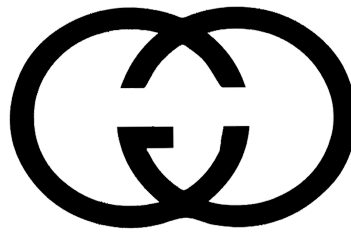


# CONGO



Team 16 - Sprint 2 Planning Document

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## Sprint Overview

During sprint 1, we didn't take into account the steep learning curve for the technologies and as a result, we were not able to complete some of the tasks written in Sprint 1. During this sprint, we will completely finish the merchant component of the website so we can have the full functionality of both the user and merchant side. We will also complete our searching algorithm, by making sure the user can search the available products via different methods. During the sprint, we will have to complete the checkout process for the user to purchase a product. By the end of the sprint, the website will be able to perform basic functionalities as a user as well as a merchant and be able to go through the entire process of buying a product.

SCRUM Master: Spencer Kline

Meeting Plan: Monday 4:30-6:30 PM, Thursday 4:30-6:30 PM, Friday 7:00-9:00 PM,  
Sunday 2:00-4:00 PM

### Risks and Challenges:

One challenge we will face in this sprint is security when it comes to checking out the product and processing the payment. All of the information that will be needed for this challenge is highly sensitive data and we need to make sure that no one will have access to that kind of information. When it comes to the merchant side, we need to make sure that there are no bugs and merchants have multiple options when it comes to adding and editing products. This increases flexibility for the user and has a better user experience overall. Once we have completed all the tasks for

this sprint, we will make sure that the end-to-end cycle for both user and merchant is one, fluid and cohesive process that is bug-free and comprehensible.

## Current Sprint Detail

User Story 1: As a congo merchant, I would like to edit products/tags

Task Number	Description	Time	Task Owner
1	User selects product to edit	2	Raman
2	User inputs the specific changes to product on UI	2.5	Raman
3	Input is updated to the database	2.5	Raman
4	Success message show on UI, that product information has been updated	2.5	Raman
5	Unit Tests - display dummy product, incorrect input, fetching from database	4	Raman

### Acceptance Criteria:

- Given that the merchant wants to edit one of their products on the site, we need to get the specific product for which they would like to change.
- Given that the merchant chose a specific product, we need to know what changes the user wants to make to the product.
- Given that we have the specified changes, we use the changes as input to update the product on our database.
- Given that we get a success message from the database, we need to display a confirmation message on the UI along with the changes on the site as well.

User Story 2: As a congo merchant, I would like to remove products/tags

Task Number	Description	Time	Task Owner
1	Separate product and the tags associated to it	2.5	Kenny
2	Delete product from database	3	Kenny
3	Send confirmation message and email about product	3	Kenny
4	Unit Tests - Correctly remove products and make sure user can't search it	3	Kenny

Acceptance Criteria:

- Given that the merchant wants to remove one of their products from the site, we need to remove the product from the associated tags in the database
- Given that the product and tags are separate, we will need to delete the product from the database
- Given that we get a success code from the deletion of the product, we need to send a confirmation message to the merchant user.
- Given that the use case tests this functionality, we will make sure that our dummy merchants are able to successfully delete a product.

User Story 3: As a user, I would like to get licensed for a merchant account

Task Number	Description	Time	Task Owner
1	Get user input	2	Ashwin
2	Validate user input	2.5	Ashwin
3	Encrypt password and merchant license	3	Ashwin
4	Admins approve of merchant registration on admin portal	2.5	Ashwin
5	Add to database	2	Ashwin

Acceptance Criteria:

- Given that a user wants to become a merchant on this site, it's imperative that the user inputs the correct information to be stored
- Given that the user inputs the information, we need to validate that input and make sure it meets all the requirements
- Given that the user input is validated, it is important that we encode the password and the merchant license that way their sensitive information is stored and not accessible by anyone else
- Given that the all the information is correct and encrypted, it is now the admin's job to either accept or decline the registration of the new merchant, this can be done on the admin portal page.
- Given that all the tasks are completed successfully, we now need to store all this information in the firebase real-time database for future use.

User Story 4: As a user, I would like to login into my merchant account

Task Number	Description	Time	Task Owner
1	Validate login	3	Raman
2	Store merchant login in session	3	Raman
3	Unit tests - incorrect password, attempt limits	3	Raman

Acceptance Criteria:

- Given that the user wants to log into their merchant member account, the user needs to input their login credentials and have it be validated.
- Given that the user login credentials have been validated, we need to store this instance of the time session in the Firebase Real-time Database for future reference.
- Given that the unit test makes sure this is working functionally, we will test this use case using different mocked Congo accounts

User Story 5: As a user, I would like to add products to my cart

Task Number	Description	Time	Task Owner
1	Product is added to the user's cart within database	3	Rohith
2	Display number of products remaining and subtract by one once added to cart	2.5	Rohith
3	Products in cart appear in Cart Page by calling the database	2.5	Rohith
4	Unit Test - Test to see if products are correctly in the database and extracting it	3	Rohith

Acceptance Criteria:

- Given that user should be able to view their cart on different computers, we need to add the product within the user's cart within the database, this will allow the user to see their cart on any computer
- Given that the user wants to view their cart, the products in the user's cart should be pulled from the database and populate the Cart Page.
- Given that a unit test has been created to test this functionality, the user's cart should be seen on multiple computers and on the product page,

User Story 6: As a user, I would like to checkout products in my cart.

Task Number	Description	Time	Task Owner
1	Getting user shipping information from form	3	Spencer
2	Validating Information	3	Spencer
3	Unit Test - provide valid and invalid information, assert checkout when correct	4	Spencer

Acceptance Criteria:

- Given that a user is ready to enter their information, they should be able to do so easily.
- Given that a user has inputted their shipping information, it should be validated to check that all inputs are acceptable.
- Given that the user input is valid, it should be stored in session to pass to the payment page.
- Given that the shipping appears functional, run unit tests to ensure it is fully functional.

User Story 7: As a user, I would like to complete the payment necessary to the products in my cart.

Task Number	Description	Time	Task Owner
1	Get payment info from user	2.5	Spencer
2	Send info to Stripe	2.5	Spencer
3	If valid, complete and record transaction in database	2.5	Spencer
4	Else, report error to user	2.5	Spencer
5	Unit Test - Correctly submit transaction to Stripe and retrieve correct response code	3	Spencer

Acceptance Criteria:

- Given that the user is ready to pay, they should be able to easily and clearly input their payment info.
- Given that the user has inputted their card information, it should be successfully sent to Stripe with the charge amount.
- Given that the transaction was successful, report to the user that their order was successfully placed, and create a new Order entity in the database.
- Given that the transaction was unsuccessful, report to the user what the error was without reloading the page, eg. Invalid card number, Insufficient Funds.
- Given that the handling of payment appears functional, run unit tests to ensure it is actually fully functionally.



User Story 8: As a user, I would like to browse via categories.

Task Number	Description	Time	Task Owner
1	Show dropdown of categories on click	2.5	Kenny
2	Display all product data based on selected category	3	Kenny
3	Allow user to filter category search	3	Kenny
4	Unit Test - Display dummy product and sort by given category, assert categories properly	4	Kenny

- Given the user clicks the category and it's functional, it should display all available categories for the user to choose from.
- Given the user selects a valid category, the products data from that category will be fetched from the database and displayed on the search page.
- Given the user selects a filter for the search, the products on the search page should be reordered and displayed based on that filter.
- Given that the category search is functional, develop unit tests to cover all the frontend and backend code to ensure that the logic is robust.

User Story 9: As a user, I would like to browse featured products

Task Number	Description	Time	Task Owner
1	Retrieve featured products from database	3	Rhith
3	Display featured products on home page, in correct place	3	Rhith
4	Unit Test - Display dummy features, fetching from database	4	Rhith

- Given that the user visits the Congo homepage, it should display the currently featured and promoted products
- Given that the user visits the Congo homepage, all important information about featured products should be visible, and products should be placed according to the type of promotion they are getting
- Given that featured products appear to display correctly, run unit tests to ensure it is meeting all of our demands

User Story 10: As a user, I would like to view my purchase history

Task Number	Description	Time (hours)	Task Owner
1	Create clickable prototype	4	Ashwin
2	Retrieve previously purchased products from database	3	Ashwin
3	Display purchased products on purchase history page	3	Ashwin
4	Unit test - Display correct purchase history of user	4	Ashwin

Acceptance Criteria:

- Given the user clicks purchase history and it's functional, it should show a page that displays all previously purchased products for the user to view.
- Given the user navigates to this page, the products data from that user's purchase history will be fetched from the database to be displayed on the purchase history page.
- Given that the database query is returned, the user will either see a display of all the products that they have previously purchased or they will be notified an error has occurred with the database query.
- Given that we are able to query the purchase history of the user, our unit test will test the functionality of this use case and make sure it is presented in a readable fashion.

## Remaining Product Backlog

### Unregistered Congo Customer

- ~~1. As an unregistered congo customer , I would like to register for a Congo account.~~
- ~~2. As an unregistered congo customer , I would like to browse the products.~~
- ~~3. As an unregistered congo customer , I would like to browse products by category.~~

### Registered Congo Customer

- ~~4. As a congo customer member, I would like to have all the abilities that an unregistered congo customer have.~~
- ~~5. As a congo customer member , I would like to login to my account~~
- ~~6. As a congo customer member , I would like to add a product to my shopping cart.~~
- ~~7. As a congo customer member , I would like to remove an item/s in my shopping cart.~~
8. As a congo customer member , I would like leave reviews on products I have purchased.
9. As a congo customer member , I would like to view my recommended products.
- ~~10. As a congo customer member , I would like to purchase products in my cart with Stripe API.~~
- ~~11. As a congo customer member , I would like to refund products with Stripe API.~~
- ~~12. As a congo customer member , I would like to view my items in my shopping cart.~~
13. As a congo customer member , I would like to view my purchase history.
- ~~14. As a congo customer member , I would like to view how many products are remaining on a product I am viewing.~~
15. As a congo customer member , I would like to see how many people are viewing this product.
16. As a congo customer member, I would like to purchase a Congo gift card.
17. As a congo customer member , I would like to redeem a Congo gift card.
- ~~18. As a congo customer member , I would like to receive email confirmation after a successful order placement.~~
- ~~19. As a congo customer member , I would like to save my payment information.~~
- ~~20. As a congo customer member , I would like to save my shipping information.~~
- ~~21. As a congo customer member , I would like to save my billing information.~~
22. As a congo customer member , I would like to reset my account password through my email.

### Congo Stream Member

- 23. As a congo customer Stream member, I would like all the same features as a regular member
- 24. As a congo customer Stream member , I would like to receive expedited shipping
- 25. As a congo customer Stream member , I would like to receive discounts on select products.

### **Congo Merchant**

- ~~26. As a congo merchant, I would like to be verified.~~
- ~~27. As a congo merchant, I would like to add products~~
- ~~28. As a congo merchant, I would like to edit products~~
- ~~29. As a congo merchant, I would like to remove products~~
- ~~30. As a congo merchant, I would like to be able to login in to a merchant page~~
- 31. As a congo merchant, I would like an merchant page with my statistics
- ~~32. As a congo merchant, I would like to be able to add tags to my products~~
- ~~33. As a congo merchant, I would like to be able to remove tags to my products~~
- 34. As a congo merchant, I would like to pay to promote my products

### **Congo Admin**

- 35. As an congo admin, I would like to approve merchants
- 36. As an congo admin, I would like to reject merchants
- 37. As an congo admin, I would like to approve products
- 38. As an congo admin, I would like to reject products
- 39. As a congo admin, I would like to be able to login to a site admin page.
- 40. As an congo admin, I would like to see overall site statistics