

SPECIFICATION DOCUMENT

(CLOTHING & SHOES WEBSITE/APP)

(WORKFLOW1)

**COURSE ASSIGNMENT
(REPORT)**

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TASK 1

1. INTRODUCTION:

This document represent the requirement gathering and analysis process, as well as basic design of the website and mobile app.

The general key requirements given by the business owner is represented below as a vision/scope document:

- Differentiate gender clothing and shoes, e.g. men, women
- Sizes of all clothing apparel.
- Customers must create an online account for purchases.
- Delivery types to be stipulated (bearing in mind this company delivers worldwide).
- Payment methods to be catered for (PayPal, Visa, Mastercard, bank transfer, cash on delivery).
- Site must also be easily updated if new products are made available.
- Database management.
- Contact details to be listed on site and mobile app.
- 24/7 chat line available to all customers.
- Customer must be able to track their parcels.
- Email notifications to be sent out on the following:
 - News and communication.
 - Updates on parcels and where in process parcels are
 - Customers must also be able to unsubscribe.
- Important menu items for customers after login:
 - Customer profile management
 - Orders (current/history)
 - Wishlist

2. PROJECT PLANNING DOCUMENT

Following project development plan represent the whole SDLC with milestones and timelines:

Gantt Project

Apr 29, 2018

Project manager

Project Manager

Project dates

May 1, 2018 - Jun 1, 2018

Completion

0%

Tasks

22

Resources

6

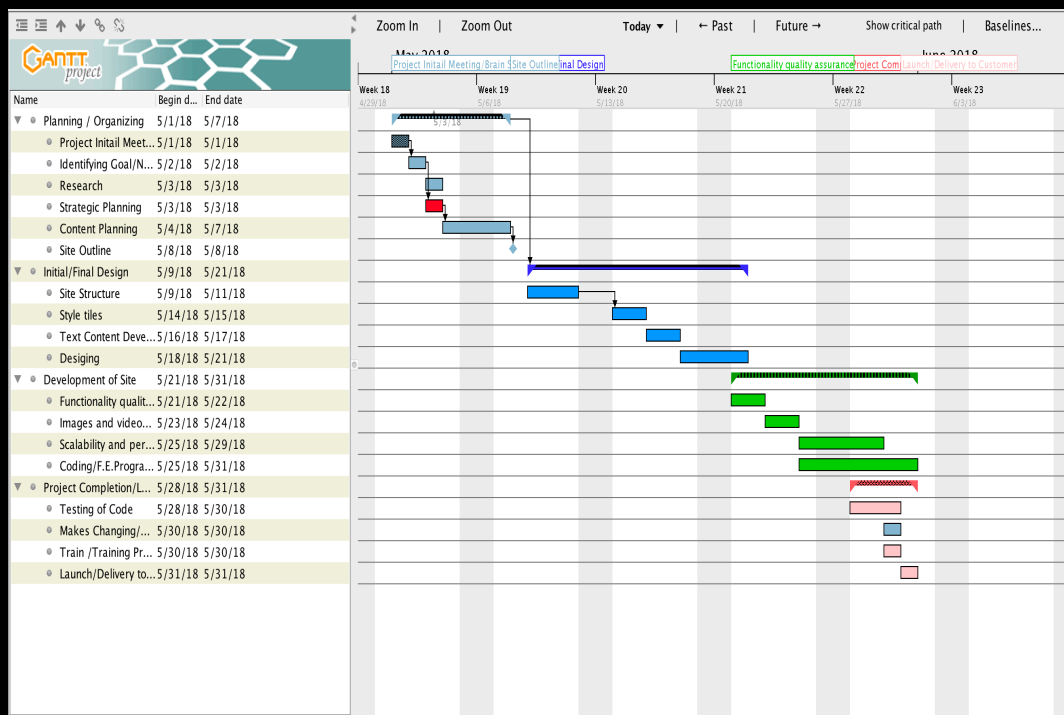
Untitled Gantt Project

Apr 29, 2018

Resources

3

Name	Default role
Project Manager	project manager
Front End Developer	developer
Content Developer	developer
Graphic Designer	graphic designer
Designer	web designer
Stake Holders	no specific role



3. REQUIREMENTS DOCUMENT

Then I tried to make a Requirements Document based on the key requirements given above. In this document, I have tried to make and differentiate business, users, operational and system requirements.

User Requirement:

- Dynamic Website and Mob App.
- Sizes of all clothing apparel.
- User Friendly Site.
- User can easily create/edit profile.
- Easy access to Search Engine.
- Payment Methods easily available.
- Customer must be able to track their parcels.
- Receive newsletter, promotions and offers.
- Wishlist for the customers.
- Customers must create an online account for purchases.

Business Requirement:

- Differentiate gender clothing and shoes, e.g. men, women
- Payment methods to be catered for (PayPal, Visa, MasterCard, bank transfer, cash on delivery).
- Site must also be easily updated if new products are made available.
- Contact details to be listed on site and mobile app.
- 24/7 chat line available to all customers.
- Email notification to customers

Operational and system Requirement:

- Database management system.
- Login management system.
- Mobile application for smartphones.
- Automatically users control system.
- Delivery or parcel tracking system.
- Wishlist management
- Order and chat history storage

4. USAGE SCENARIO DOCUMENT

Based on the vision and scope document, and the redefined detailed requirements in the requirements document, I have tried to create usage scenario document for the key functions of the business. Here are those usage scenarios:

Usage scenarios:

Scenario no 1(Shopping clothes).

- **User Open the websites.**
- **Select the clothes.**
- **Put in wishlist.**
- **Going on to Payment methods.**
- **Payee by visa, master etc Card.**

Scenario No 2(Making profile/account).

- **Click on Signin button.**
- **Put his personal data.**
- **Complete the profile.**

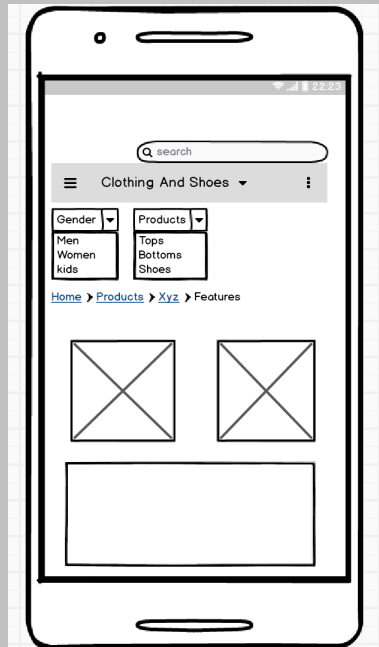
Scenario No 3(Track Orders).

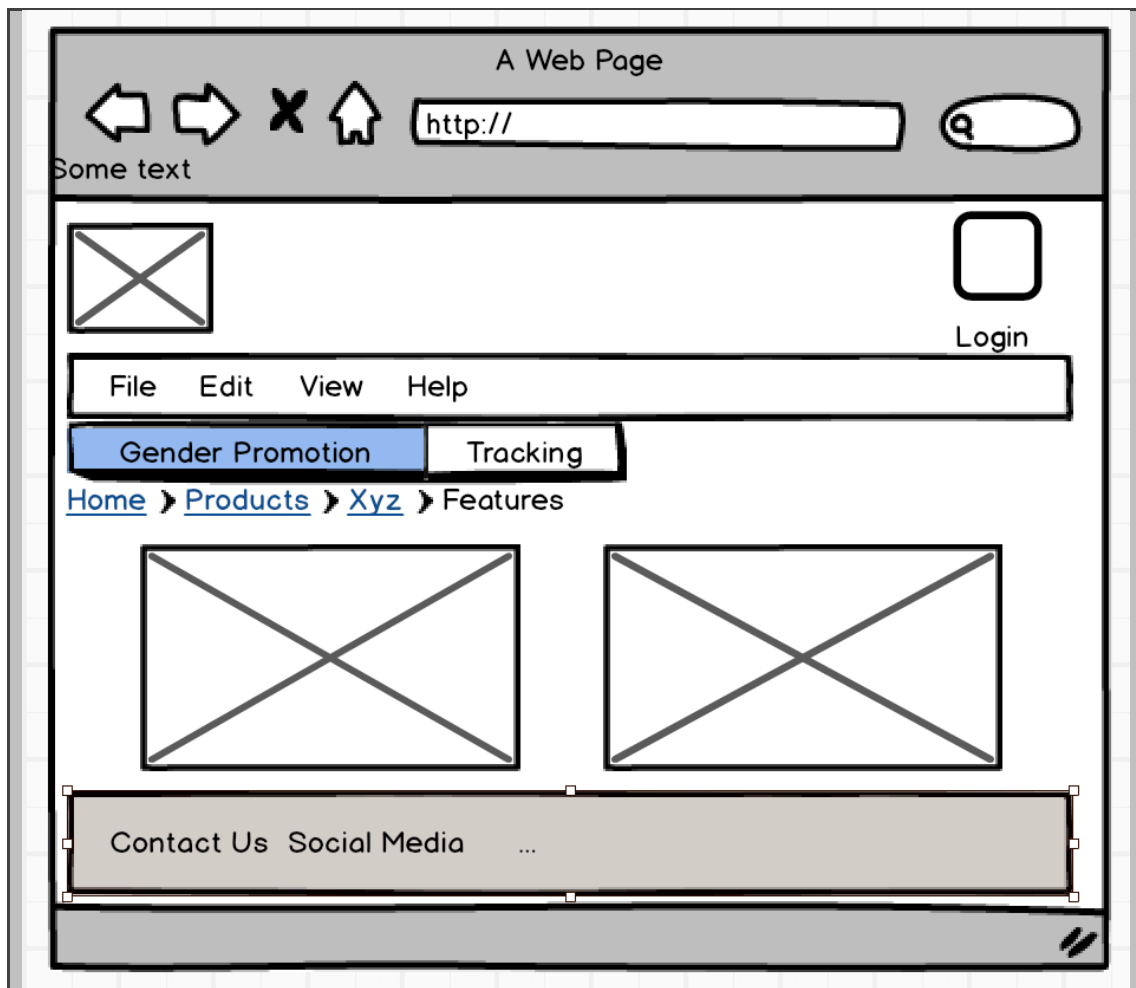
- **Click the Track Order button.**
- **Check where the order reached.**
- **Check when to deliver exactly.**

5. DESIGN DOCUMENT:

As a final step for the functional specification document writing, I have also created mockups for key functions:

Mockups for mobile app and website:





TASK 2

1. QUESTION 1:

In this task, I will create 2 sets of sprints for the above created project plan.

- **Sprint - 1**

In this sprint, we will have following key requirements to be covered and delivered:

- **Sprint Planning**

Following **users' stories** will be delivered:

Customer's profile management system: **Customers** are able to create their profiles on the website, and are able to modify or delete their profiles.

Content management: **Content creator** is able to check the interface for uploading the clothing and shoes products details including pictures and description on the system. GUI is designed for adding, editing and deleting the products.

Backend database management: Basic structure of the database and tables is created by the backend developer.

Partial search implementation: Search functionality will be implemented on the basic scale.

Note: Sticky notes for above stories are created and pasted on board physically.

- **Daily Scrum or Stand-Up**

Daily scrum meeting is conducted for 15 minutes where we discuss the ongoing and completed stories written the sprint planning phase on the stickies. Any issues in the development are also discussed and resolved within the team, with the help of each other.

- **Sprint Review**

All the stories of sprint which are marked as "Done" are discussed with all the stakeholders and developers.

- **Sprint Retrospective**

Feedback about this sprint is taken from the business owners and the whole team. Lesson learnt are documented that will be catered in the second sprint.

- **Sprint - 2**

In this sprint, we will have following key requirements to be covered and delivered based on the sprint – 1 and feedback received from the business owner:

- **Sprint Planning**

Following **users' stories** will be delivered:

Order tracking system: **Customers** are able to track their orders and check their purchase history as well. Customer's are also able to cancel their order within deadline as per company's regulations.

Wishlist management: **Customers** are also able to manage their wishlists

Communication system: The system is able to generate automated emails about offers, promotions to the **customers**. Admins are able to create such offers and promotional emails content on the system. Admins are also able to set the communication timing for automated emails.

Fully functional search functionality is implemented.

Fully functional database management functionality is provided.

Mobile app is created for all the features planned in sprint 1 and 2 to be used by **Mobile Users**.

Complaint management systems: Customers are able to contact the company and are able to make a complaint. Company designated employees are able to deal the complaints and resolve them. If the time allows, this complementary system will be integrated in the system to over-do the assigned task, just for the sake good future relationships.

Note: Sticky notes for above stories are created and pasted on board physically.

- **Daily Scrum or Stand-Up**

Daily scrum meeting is conducted for 15 minutes where we discuss the ongoing and completed stories written the sprint-planning phase on the stickies. Any issues in the development are also discussed and resolved within the team, with the help of each other.

- **Sprint Review**

All the stories of sprint which are marked as "Done" are discussed with all the stakeholders and developers.

- **Sprint Retrospective**

Feedback about this sprint is taken and if needed, the changes are being made and updated.

2. QUESTION 2: Using the Functional Specification, break down all your user requirements into the following:

- **Group your user requirements and create features for each group.**

Following groups are created for the user requirements.

S #	Group Feature	Requirements
1	Profile management	<ul style="list-style-type: none">• Customers are able to create profile.• Customers are able to modify profile except unique username.• Customers are able to delete profile.• Website admins are able to assign roles to the users of the website.
2	Content management	<ul style="list-style-type: none">• Content creators are able to add the product's photo and description in the system.• Content creators are able to modify the product details• Content creators are able to delete the product from the system• Content creators/Admins are able to view the reports in the desired formats.•
3	Search function	<ul style="list-style-type: none">• Customers are able to search the products by name, descriptive words or product ID.• After searching, the visible list provides useful categorical information in the search results
4	Order management	<ul style="list-style-type: none">• Customers are able to buy the products online, make payments.• Customers are also able to track their products and check the order status

		<ul style="list-style-type: none"> Customers are also able to check their online order/purchase history
5	Wishlist	<ul style="list-style-type: none"> Customers are able to create wishlist Customers are able to view and modify the wishlist
6	Communication system	<ul style="list-style-type: none"> System is able to send automated emails to the customers. Content creator/admins are able to create promotional emails and offers online in the system Admins are able to set the timing for automatic communication with the customers.
7	Mobile app	<ul style="list-style-type: none"> All the features above will also be designed and provided for the mobile app as well
8	Complaint management (complementary)	<ul style="list-style-type: none"> Customers will be able to contact the company and create a complaint request. Admins would be able to check and resolve the complaint made by the customers.

- Create your epics/themes/User stories**

Admins are able to assign roles to the other users of the system. Content creators are able to create content for products, communication. Customers are able to create, modify or delete their profiles. Customers are also able to search or view the product. Customers are also able to buy the product(s), track the order, view the order history, receive the promotional offers from the system, and manage the wishlists as well.

If the time allows, the complaint management system will be developed complementarily which will allow customers to create complaints and admins to resolve the complaints.

3. QUESTION 3:

Once user stories have been created, decide how long each user story will take to complete.

Once the user stories are created and features are grouped, the timeline discussed here:

- Profile management will take place within 2 weeks
- Content management can take 4-6 weeks
- Order management can take 2-4 weeks
- Wishlist and communication related stuff will take place in 2-3 weeks
- Complaint management can be done in parallel within 1-2 weeks
- Mobile app will be created in parallel for the above features and stories.

4. QUESTION 4: JIRA.

To do	In progress	Code review	Done

Stickies can be moved here and there, in the above columns during the workflow process.

TASK 3

Q. No. 1-5

<https://github.com/rajawaqasahmed/NoroffModuleAssignment>

Q. No. 6:

<https://github.com/rajawaqasahmed/MergeConflicts>

Q No 7: What is GIT fast forward?

Ans: GIT Fast forward means when we merge the two branches, for example we have two branches A and B. If A is a master branch and has no commit, whereas B branch has one commit, then merging A and B will bring A's pointer ahead by fast forwarding it.

Q No 8: Describe the process of a merge conflict.

Ans: When one works as part of a team, all the developers will end up editing the same line of code. This will cause a "merge conflict". This is where a lot can go wrong so one has to pay careful attention to what they are doing here. The best way to deal with a merge conflict is to get the developer, whose code is causing the conflict and sit down with them and resolve the merge conflicts together.

Q No 9: How do you see which branch you are on?

Ans: The command "**git branch**" tells a list of branches that are available for the repository and the "*" appears with the current working branch.

Q No 10: Briefly describe a pull-request.

Ans: Pull requests tells others about changes one has pushed to a repository on GitHub. Once a pull request is opened, one can discuss and review the potential changes with collaborators and add follow-up commits before the changes are merged into the repository.