# Shopping Cart

The following documents the project of designing a shopping cart application with local storage only using HTML, CSS and Javascript. It is required for the project to be executed in the form of classes and objects for the javascript part.

## Requirements for the project:

- Create a JS shopping cart
- Use object oriented programing
- No use of frameworks or third party libraries for the javascript part
- Work with prices from euros to dollars and vice-versa
- A page with static product list with corresponding action “Add to cart”
- All the products should be stored in JS
- The user should have the option of doing the following:
    1. Add products to cart
    2. Remove products from cart
    3. Modify number of units
    4. Cannot add more quantities than are available (simulate stock)
    5. Can change product options that can influence the price and image shown to the user
    6. For example, if it is a clothing product, these options would be: size, color, …

## Testing metric required

- Internet Explorer 11 or higher
- Safari
- Firefox
- Chrome

Required screenshots for the above internet browsers

## Scope of the project

The scope of the project includes learning how to deploy local storage and more importantly the object oriented approach to programming.

**Project Calendar**

**Project proposed start date:** 18/11/2019
**Project Planning data:** 18/11/2019
**Project Implementation date:** 18/11/2019-21/11/2019
**Project delivery date:** 25/11/2019

Following are the risks associated with the execution of the project:

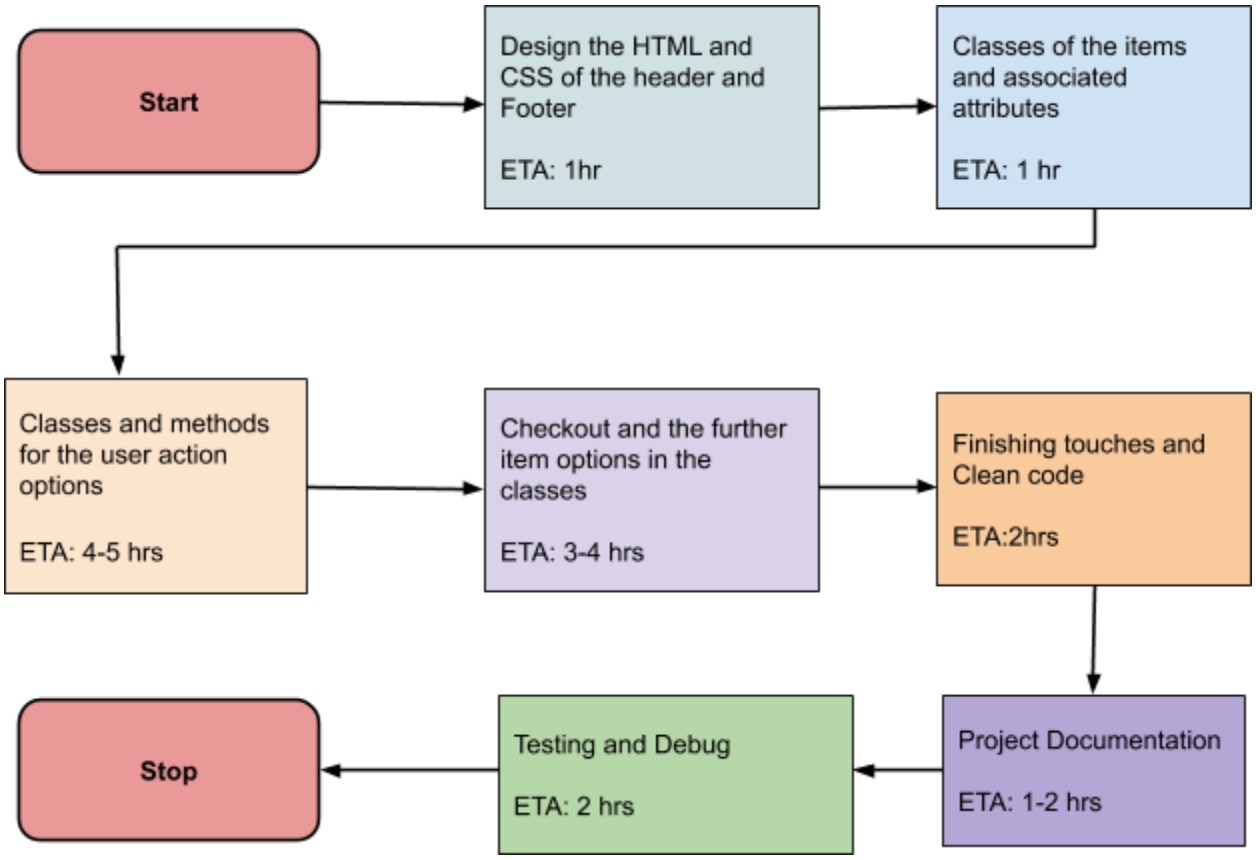
| Risk | Risk level |
|---|---|
| Implementation of local storage to maximum effect | High |
| Class oriented JS | Very High |
| User options and actions | Medium to High |
| Shopping cart functioning in all the browsers properly | Medium |

After the risks have been pointed out, it is important to show the following calendar which will guide the project all through out. The following shows the list of the tasks to be performed with the details of the tasks to be performed including difficulty and priority level. Difficulty level is explained on a scale of 1 to 5 ( 5 being the most difficult ). Priority is explained on the level of 1 to 5 ( again 5 the highest parameter being the most prioritized work ).

| Tasks | Priority | Difficulty |
|---|---|---|
| Background image | 1 | 1 |
| Header and Footer | 3 | 2 |

| | | |
|---|---|---|
| Local storage of the data | 5 | 5 |
| Proper button functioning | 4 | 3 |
| Styling of the webpage | 2 | 3 |
| Object oriented programing for the JS | 5 | 5 |

EDA of the project:




Chronogram:

The following are the actual events taken place as the execution of the project is progressed:

- ➔ Mon 18/11/2019 10:00 am :- Project initialized and planning start
- ➔ Mon 18/11/2019 03:00 pm :- Project Documentation
- ➔ Mon 18/11/2019 04:00 pm :- Initial HTML and CSS for the header and the footer
- ➔ Mon 18/11/2019 06:00 pm :- End of day

- ➔ Tue 19/11/2019 12:00 pm :- Initialization of classes for the various items on the main page
- ➔ Tue 19/11/2019 3:00 pm :- Design of the main page complete with some css styles remaining
- ➔ Tue 19/11/2019 5:00 pm :- Start with addition of button functionality and options of stocks and prices
- ➔ Wed 20/11/2019 10:00 am:- Continuation with options and addition of items to the cart
- ➔ Wed 20/11/2019 12:00 pm:- Working on the amount of stocks left and the amount maximum that can be added
- ➔ Wed 20/11/2019 5:00 pm :- Still working on the same aspect
- ➔ Thurs 21/11/2019 10:00am:- continuation of work on number of stocks left and number bought
- ➔ Thurs 21/11/2019 3:00 pm:- Start of local storage
- ➔ Thurs 21/11/2019 5:00pm :- Start of work with the final cart design and addition and deletion of products
- ➔ Fri 22/11/2019 10:00 am:- continuation of working on the final cart design
- ➔ Fri 22/11/2019 3:00 pm:- trying to add dynamic stock value cart items
- ➔ Fri 22/11/2019 5:00 pm:- finalizing the cart value without the dynamic stock value