Test Scope

1. The test plan is to conclude an assessment on an online shopping application.

2. The test will ensure that the data is calculated according to the desired operation the user selects. For eg : It will ensure that the user selects any article and should be able to add the selected article to the cart and the total amount is calculated based on the items added.It will ensure that the application collects the data from the user allowing them to pick an article from the list of articles displayed and add it to their shopping cart.

3. The test would guarantee that the application is compliant with all the requirements for an application process.

4. It will inform the developer of any area that worked or did not work while checking the functionality of the application.

Testing strategy :

- **User Interface Testing :**

1. The goal of this test is to ensure that the user interface provides the user with appropriate access and navigation through the entire process of the application.
   For eg :
   Verify if user is navigated to product page after clicking the item from search option
   Verify if user is navigated to items page after selecting “Keychains” from to buy option
   Verify if user is navigated to carts page after clicking “See my bag” option

2. It would also test the design, layout, links, buttons and all the other application behaviors.
   For eg:
   Verify if user is able to add articles after clicking on “Add to bag” option
   Verify if user can click and add on multiple filters from the items page

3. This will ensure that the interface is behaving as expected whenever the user enters their information and returns the correct output response.
   For eg:
   Verify if user can select the valid article searched from the search option

4. Finally testing will be conducted on multiple environments to ensure compliance with multiple platforms and browsers.

Pros of User interface testing :

1. Can catch high severity or showstopper bugs

2. Visual elements such as buttons, inputs, menus, etc., are displayed correctly and work as intended, e.g., buttons performing the right action, navigational elements redirecting to the right page, inputs produce or cause an expected action
3. Saves Time: Especially for regression tests, running the same UI flow tests manually every time something is changed, or an update is pushed is wasteful.

Cons of User Interface testing:

1. Can fail if there is any change in ui components
2. Slow execution , hence reporting would be slow incase of any major issues

- **Functional Testing** : The main objective of this testing will be to check whether the system is functionally probable and improbable.

1. This will focus on all the requirements that can be traced directly to use cases.

2. This is to verify proper data acceptance, processing, and retrieval of the shopping articles. This also validates the data present in the database.
   For eg:
   Verify If the user is able to get the valid articles on selecting “Lego Items” as an option from “To buy” and “Keychains” option is retrieved from the list.
   Verify number of items present by validating the number of pages present
   Verify if on adding multiple filters valid data is retrieved by verifying the number of items present from the “Kind of product” filter and number of pages present in the items page.
   Verify if all the articles are retrieved which matches the article searched in search option.

3. It will check if all the functions and rules are appropriately implemented. This test will verify the application by interacting with the application interface and analyze the results.
   For eg
   Verify if valid quantity of the products are added to cart
   Verify if
   Verifying if a valid amount is calculated based on the number of items selected.

4. It will also check if an error occurs when invalid input is given, like
   For eg
   Verify if a valid message is thrown if the article is not present.

5. This testing ensures that the system is working as per the functionalities of the application in all possible and impossible criteria

Pros of functional testing:

1. Ensures all the requirements are met
2. It focuses on the results generated by required inputs

Cons of functional testing:

1. We can miss critical as well as logical errors in the system
2. Redundancy is high , since we try to run the same functionality frequently to test other areas.