

**420-PZ5-GX WEB PROGRAMMING**

**Functional test plan**

**Canada Tourism**

**Submitted to: Submitted by:**

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# Use cases

Diagram

Description automatically generated

# Introduction

The prime purpose of this document is to discuss about testing plan of the website that we made as a group project for 420-PZ5-GX WEB PROGRAMMING course. The website is about Canada Tourism guide portal, in which users can gain information regarding important cities of the country, along with that they can also share their images on the website. The report discusses about the critical test items related to the project and features that must be tested during the testing approach is followed. Furthermore, the report discusses about the approach that would be followed and what are the pass or fail criteria during testing.

# Test items

Primarily, all the use cases drawn at the initial stages of the project will be tested. The website allows user to navigate to different pages that includes different text and media contents. Along with that, user is given a functionality to upload the images to the website in some specific formats and sizes. At last, the user can also change the theme of gallery page into light or dark theme. Therefore, these critical use cases can be considered as “testing items”.

# Features to be tested

Following is list of the use cases that will be tested such as:

|  |  |
| --- | --- |
| ID | Test case |
|  | Visit Home page |
|  | Visit Video page |
|  | Visit Popular city from the dropdown menu (Select a city of your choice.) |
|  | Visit Gallery page |
|  | Upload image on the website |
|  | Check the uploaded image on the gallery page. |
|  | Click on the “Dark” gallery theme. |
|  | Click on the “Light” gallery theme. |

You can try different sizes and different format of images for uploading on the system.

# Approach

There is a wide variety of testing approaches that can be possibly used for testing the website systems, such as black box testing, white box testing, unit testing, end-to-end testing, smoke testing and performance testing, etc. Thus, in accordance with this project, we believe that ***black box testing*** approach will be most suitable to analyze different outputs.

Black box testing is one of the most common, for testing software systems. As it focus on the functionalities of the application, rather than focusing on the internal structure or coding logic. Along with that, black box testing is better for us, because it can be started at any stage of the development and can be done for specification basis. Along with black box testing, we can use ***selenium*** in order to automate test cases and find the actual results as expected by the user.

We will use ***assertion class*** of selenium for evaluating whether certain condition is completed or expected result is displayed on the screen or not. For instance, if user upload an image on the website, assertation can be used for the purpose of verifying that whether the website can display the image uploaded by the user in the gallery. Furthermore, during the time of development we used unit testing approach as well, it made sure that the website is working as expected or not.

# Item pass/ fail criteria

**Passing criteria:** The test case is considered as positive or passed, only and only if the system reacts in such a manner which is stated by the user cases given above. In other words, the features of website will be verified as given in the test case to make sure the system is developed as expected.

**Failing criteria:** The test case is considered as negative or failed, when there is a difference between the actual and expected result. For example, if user clicks on the “dark” button, normally it is expected to change the theme of the page to dark. However, if it doesn’t change the theme, it could be considered as failing criteria.

# Appendix

## GITHUB LINK:

**<https://github.com/bhardwajabhi992/CanadaTourism>**