1. INTRODUCTION

1.1 Overview

DESCRIPTION OF BLUESTONE

Bluestone is an user-triendly web-based software application that revolutize high quality fine jewellery with strinklingly exquisite designs with lifestyle segment in India and abroad.

It was established in 2011, all these designs are crafted to perfection with utmost care giving the flexibility to cutomize the products gold posity and color or diamond closity to suit own needs.

A BRIEF DESCRIPTION FOR USE OF THIS PROJECT. WHAT CAN BE ACHIEVED USING THIS PROJECT.

Actually this project is based on software automation testing by which we can test any web-page of any software application.

i.e the verification and validation of the softwares developed is done in the PROJECT.

- ⇒ We validate the appearance of software developed in accolding to the derived outcome 81 not.
- => All the options and modules used in Software are navigating properly of not, we verify them
- => The functionality of software application of webpage is validate in this project by Using software Automation Testing.

-> INTRO OF BLUESTONE PROJECT

The BLUESTONE project in a python automation project that utilizes the selenium framework for automating web instructions. This documentation provides an overview of project with unstallation and configuration.

-> PROJECT OVERVIEW

The BLUESTONE project aims to automate various tasks on the bluestone website. It beverages SELENIUM, a powerful web automation tool, to imteract with web elements and perform actions such as clicking buttons, filling forms and extracting data.

1.2 PURPOSE

A BRIEF DESCRIPTION ON-WHAT THE PROJECT IS BASED ON

Bluestone is web-based e-commerce application and it deals with all type of jewellery idems and it has both the mobile application support for customers to track orders and easy access.

- ⇒ Useru can search the desired product from global search.
- => Userus can get updates on need basis.
- ⇒ Users can register once and continue shopping and track items while delivery.
- => Userus cam also continue shopping using mobile application software.

-> TESTING AND QUALITY ASSURANCE AUTOMATED TESTING

Unit testing was performed on each module along with contegration testing to the function. -ality and integration of different modules 81 units of BLUESTONE project Automated testing was also performed using tools such as Selenium.

MANUAL TESTING

Manual testing was also performed to test the software under different test cases and Scenosios.

Quality assurance testing involved identifying rand repositing the bugs and dejects in the System. Ensuring that the software was pree from defects was an emential paspect of

the project.

→ PRE REQUISITES FOR BLUESTONE AUTOMATION PROJECT

Before getting Stoorted with bluestone project, we have to ensure that we know following prerequisities.

⇒ list of Saftwares and took that need to be constalled before running the project. They are

Python (3. x)

Selenium (3.x)

Pytest (latest Version)

Any other dependencies.

> INSTALLATIONS TO BE DONE FOR BLUESTONE
PROJECT

We have to virustall necessary dependencies for bluestone automation projects.

⇒INSTALL PYTHON

Visit the python website

(https://www.python.olg) and then download the latest version of Python.

=> INSTALL GITBASH

Visit the gitbash website

(nttp://git-scm.com/download/win)

and download the latest version of the git bash

(i.e 64-bit Git for window setup)

2.1 => Literature Survey

The BLUESTONE project in a Software application that sales fine jewellery of gold and diamonds for customers. We discuss the project overview to interact with web elements and perform actions, click bultons, filling forms & enctracting data.

→ DESIGN AND DEVELOPMENT

Web Architecture Design: In this Software the trage is designed in various modules for different types of the jewellery. A multilayered architecture with presenting rings, chains, watches, braclet etc.

→ PROJECT SETUP FOR BLUESTONE SOFTWARE

To set up project locally.

=> Clone the repository from github

=> Clone the BLUESTONE project repository

from [repositiony URL]

https://github.com/Vinwaterting 123/ Smoot bridge automation project-git

> Install all dependencies using requirements. txt.

-> AFTER INSTALLATION

Go to the desired location where you want to create the folder, such as desktop.

Folder-name like eg (Automation-testing-Project)

Open the folder, right click with in the
folder and select open git bash here;

You will get pop up and close the
repository.

```
@ Pytest mork login
 det test-home page Title (Self, Setup):
Self. logger. into ("** * * Test. Ool-login ** **)
Self logger info ("** * * Stanted home page title
                for automation * * * * ")
Self driver = Setup
Self logger uinfo ("** * * Opening URL * * * i)
Self driver get (Self base URL)
 time . Sleep (10)
act title = self driver title
if act. title = = "online jewellery Shopping Stole
          under prey Gold & Diamond jewellery
           with latest designs 2023"
Sely logger. Limbo ("* * * * Home page title tex)
                     powed * * * * " )
ament True
Clao
Self. logger erro (** * * + Home page title test
                         fled * * * * ")
amont False.
```

- -> ADVANTAGLES
- Handy Integration for a streamlined navigation of modules.
- Certified & trustworthy and authenticity of Software
- Versatile, long-lasting, price compositions, discount & notifications.
- Sime convenience, Infinite Choice
- Easy access to consumer verieus.
- -> DISADVANTAGIES
- You can't try thing on
- Must wait for delivery
- Shipping costs
- Privacy and Security

PROJECT STRUCTURE

⇒ The structure of the project.

uincluding directories & files and their purpose.

test cases /: Directory containing test scripts

Page objects /: Directory containing page object

model.

Utils /: Directory containing functions reports /: Directory containing test reports.

test Data 1: Directory containing test data related to project.

Configuration /: Configuration file for storing settings.

Screenshots! project testcase screenshots.

logs! Directory maintain the project

logs.

>> WRITING TEST CASES Test case using python, schemium and Pytest. => Test case 1. Home page functionality => Code for automation testing of home page impost time umpost pytest from page objects login page impôt login page from utilities, read proporties import Read Cofiq from utilities. custom logiger import log Gen Class Test - Logim () base URL = Read Config. get Application URL () Username = Read config. get username () Panwold = Read config. get panwold () Logger = Log Gem. Logger ()

BLUESTONE PROJECT SOFTWARE TESTING

Since its launch, the BLUE STONE software application system i.e web-based has been widely recognized as a leading has been widely recognized as a leading destination for high quality fine jewellow with strikingly exquisite designs.

=> The users have given positive feedback and appreciation for the Software's teatures, functionally and case of use.

⇒ Several metrics are used to track the success of the application of bluestone Software testing project.

The key performance indicators include user reviews, feedback, the numbers of registers users, ratings, tracking of olders, ratings and reduction of every.

-> RUNNING TESTS:

for Blue stone project

Explained how to run the test cases using test cases with pytest. Include information about commandline options and flags that can be used to customize test execution.

Rum. boot: Now, you can double - click the rum. boot file to execute the python script specified in the command.

The script will rum in a command prompt window.

-> CONCLUSION

The bluestone automation project provides a frame wolk for automating various task with this documentation, you should be able to set up the project, execute tests and extend / customize it audiding to own needs.