## 1. INTRODUCTION

### 1.1 Overview

DESCRIPTION OF BLUESTONE :-

Bluestone is an user-friendly web-based software application that nevolutize high quality fine fewellong with strinklingly exquisite designs with lifestyle segment in India and abound.

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

#### - INTRO OF BLUESTONE PROJECT

The BLUESTONE project he a python automation project that utilizes the Selenium framework for automating web Instructions. This documentation provides an overview of project with Installation and configuration.

### PROJECT OVERVIEW

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

#### 1.2 PURPOSE

THE PROJECT IS BASED ON

BlueStone is meb-based e commerce application and it deals with all type of jewellery items and it has both the mobile application supposit for customers to track orders and easy access.

- → Users can search the desired product from global Search.
- → Users can get updates on need basis
- → Users can negister once and continue shopping and track items while delivery
- → Wers can also continue shopping using mobile application software.

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 or any software application.

i.e the verification and validation of the software's developed is done in the PROTECT.

- ⇒ WE validate the appearance of software developed is according to the desired outcome or not.
- → All the options and modules used in software are navigating properly or not, we verify them.
- ⇒ The functionally of software application of web page is validate in this PROJECT by using software Automation Testing.

# 2.1 = Literature Survey

The BLUESTONE Poroject is a software application that sales fine jewellery of gold and diamonds for constmers we discuss the project overview, to interact with we believes and perform actions, click buttons, filling forms & extracting data.

DESIGN AND DEVELOPMENT

web Architecture Design: In this software

the page is designed in various modules

for different types of the jewelley.

A muttilayered architecture with Presenting
owings, chains, watches, braclets, etc.

## - TESTING AND QUALITY ASSURANCE

## AUTOMATED TESTING

Unit testing was performed on Each module along with integration testing to the functionality and integration of different modules of units of BLUESTONE project. Automated lesting was also performed using tools such as Selenium

## MANUAL TESTING

Manual Jesting was also performed to test the software under different test cases and scenarios.

Quality Assurance testing involved identifying and supporting the bugs and defects in the vsystem. Ensuring that the software was free from defects was an essential aspect of the project.

# PREREQUISITES FOR BLUESTONE AUTOMATION PROJECT

Before getting started with Bluestone.

profeet, we have to ensure ithat we have following prenequisites

Afst of softwares and tools that need to be installed hofole number the project, They are

Python (3.x)

Selenium (3-x)

Pytest (Latest Version)

Any other dependencies

BLUESTONE Project.

ble have to install necessary dependencies for bluestone automation forojects.

- INSTALL PYTHON

  visit the python website

  (https://www.python.org) and then

  download the latest version of Python
- INSTALL GITBASH

  Visit the gitbash website

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

  and download the latest version

  of the git bash

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

### - 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, sight click with in the folder and select open gitbash here,

You will get pop up and clone the repository

# PROJECT SETUP FOR BLUESTONE SOFTWARE

- To set up project locally,
- -> Clone the supository from github
- From [supository URL]
  - https://github.com/viswatesting123/Smoont Bridge\_Automation-Projects.git
- Install all dependencies using requirements.

## PROJECT STRUCTURE

THE STRUCTURE OF THE PROJECT,
INCLUDING DIRECTORIES & FILES
AND THEIR PURPOSE.

testcases/Disrectory containing test scripts
pageobjects/Disrectory containing page object
model.

utills /: Directory containing functions

reports/: Directory containing test reports.

test Data/: 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, Schenium and Pytest.

- => Test case 1. Home Page functionality
- Code for nuternation testing of hompage.

impost time

from pageObjects LoginPage 3mport Login page forom Utilities. sead Broperties 3mport Read Config forom Utilities. Clustom Logger 3mport LogGran

Class Test-Login ()

Wername = Read Config. get Application URL()

Parmord = Read (onfig. getpanword () logger = dog Gen. logger ()

@pytest. mark. login def test-homePage Title (Self, setup): Self logger. info ("\*\*\*\*Test-001-Login \*\*\*\*") Self logger. Rofo ("\*\*\* Started home page little for automation \*\*\*\*") self. donover = setup Sey logger. Info ("\*\* \*\* Opening URL \*\*\* ") Self. douver. get ( Self base URL) time. sleep (10) act\_ title = self. deliver. title if act-title == "on line jewellery shopping stine India Buy Gold and Diamond jewellery with Latest Designs 2023" Self logger. info (" \*\* \* Home Page title test passed \*\* \*\*) assert True Self-logger, evro ("\*\*\* Home Page title test failed \*\*\*\*") assert false.

- RUNNING TESTS:

for Blustone Project

Explained how to run the test cases using test cases with Pytest. Include information about commandline options and plags that can be used to sustaining test execution.

Run. bat: Now, you can double-click the run. bat File to execute the python surified in the command. The script specified in the command. The script will own in a commond frompt window.

### - PROJECT RESULT AND EVALUATION

SOFTWARE TESTING

Since its launch, the BLUESTONE software application system is meb-based has been widely necognized as a leading destination for high quality fine fewellery with stockingly exquisite designs.

- The users have given positive feedback and appreciation for the software's features, functionality, and ease of use.
- => Several metrics are used to track the success of the Application of Bluestone Software testing project.
- The key performance indicators include user oreviews, feedback, the number of registers users, statings, tracking of orders, valings and reduction of everors.

### ⇒ ADVANTAGES

- Handy Integration for a strummed navigation of modules.
- Certified & Toustworthy and authenticity of sotware
- Versatèle, long. lasting, Price Compaisions, Discount & Notifications
- Jime Convenience, Infinité choice.
- Easy Acces to Consumer Reviews

## → DISADVANTAGES

- You can't try thing on
- Must wait for DelRrery
- Shipping Costs
- Privacy and Security.

### - CONCLUSION

The Blueslone automation project provides a framework for automating various task with this documentation, you should be able to set up the project, execute tests, and extend constanize it according to our needs.