

# **REQUIREMENT ANALYSIS – FINDING HOSPITALS**

## **(Practo.com)**

### **Introduction:**

The goal of this project is to find hospitals in Bangalore, India using the website "practo.com". The project aims to identify hospitals that are open 24/7 and have a rating of more than 3.5. Additionally, it involves picking all the top cities in the diagnostics page and storing them in a list. Finally, the project requires filling invalid details in the corporate wellness form, scheduling it and capturing the warning message from the alert.

### **Scope:**

The key automation scope for the project includes the handling of alerts, different browser windows, and the search option. The project also requires navigating back to the home page, extracting multiple options items, and storing them in collections. Filling forms in different objects on the web page is also a significant requirement, and the capture of the warning message is a critical aspect of the project.

### **Functional Requirements:**

#### **1. Hospital Search:**

- The system should be able to search for hospitals based on their rating and working hours.
- The system should display the names of hospitals that are open 24/7 and have a rating of more than 3.5.

#### **2. City List Extraction:**

- The system should extract all the top cities in the diagnostics page and store them in a list.
- The system should display the list of all the top cities.

### **3. Form Filling:**

- The system should be able to fill in the corporate wellness form with invalid details.
- The system should schedule the form and capture the warning message from the alert.

### **Non-functional Requirements:**

#### **1. User Interface:**

- The system should have an intuitive and user-friendly interface.
- The system should be able to display information in an organized and readable format.

#### **2. Performance:**

- The system should be able to search for hospitals, extract city lists and fill in the corporate wellness form in a reasonable amount of time.

#### **3. Security:**

- The system should ensure the security of user data by implementing appropriate measures to prevent data breaches.

#### **4. Compatibility:**

- The system should be compatible with different web browsers and operating systems.

### **Assumptions:**

- The website practo.com will be used for this project, although any other legitimate site may be used.
- The project will be implemented using Selenium with Java.
- The project will be implemented using the TestNG framework.
- The Apache POI library will be used for handling Excel files.
- The Extent Reports library will be used for generating reports.

- The GitHub platform will be used for source code management and backup.

### **Constraints:**

- The website design may change frequently, requiring constant maintenance and updates to the test automation scripts.
- The website may have limitations on the number of requests that can be made, requiring delays between requests.
- The website may have complex security measures in place that may affect the automation process.

### **Tools and Technologies:**

The following tools and technologies will be used to implement the project:

1. **Selenium with Java:** Selenium is an open-source testing tool used for automating web applications. Java is used as the programming language as it is widely used and has a strong community support.
2. **Maven:** Maven is a build automation tool that provides a uniform build system for Java applications.
3. **TestNG:** TestNG is an open-source test automation framework for Java that provides advanced and useful features.
4. **Apache POI:** Apache POI is a popular API that allows programmers to create, modify, and display MS Office files using Java programs.
5. **POM:** Project Object Model or POM is the fundamental unit of work in Maven. It is an XML file that contains information about the project and configuration details used by Maven to build the project.
6. **Extent Reports:** Extent Reports is an open-source reporting library useful for test automation. It can be easily integrated with major testing frameworks like JUnit, NUnit, TestNG, etc.

## **Conclusion:**

In conclusion, the proposed project aims to automate the process of finding hospitals in Bangalore using "practo.com". The project involves extracting city lists, searching for hospitals based on their rating and working hours, filling in a corporate wellness form with invalid details, scheduling it and capturing the warning message from the alert. The project will be implemented using various tools and technologies such as Selenium with Java, Maven, TestNG, Apache POI, POM, and Extent Reports. The project aims to improve the efficiency and accuracy of the hospital search process.

***Thank You !***