Education Website Design

A Project Presentation

Self Reliant

Submitted in partial fulfilment of the Requirements for

Edubridge Learning Course

BY

Ms.Vaishnavi Bhambure

Batch Code:7670

Under the guidance of

Mrs. Mohana Priya

Vaishnavi
Bhambure_7670

Agenda

- Objective
- Web-Develoment
- DBMS
- Software Testing
- Test Case
- Selenium
- Cucumber

Objective

The study aimed to analyse, to design, to develop, to test, and to implement with an effective and useful education website, specifically this is intended to:

1. The students can get to know all education path after 10th ,12th and graduation
2. Let the visitors be able to find all required information.
3. Visitors can get review of colleges also
4. Every information of exam and syllabus

Web-Development

- Web development refers to the creating, building, and maintaining of websites. It includes aspects such as web design, web publishing, web programming, and database management. It is the creation of an application that works over the internet i.e. websites.

Frontend Development

The part of a website that the user interacts directly is termed as front end. It is also referred to as the 'client side' of the application

HTMl

HTML stands for HyperText Markup Language. It is used to design the front end portion of web pages using markup language.

CSS

Cascading Style Sheets fondly referred to as CSS is a simply designed language intended to simplify the process of making web pages presentable.

JavaScript

BJavaScript is a scripting language used to provide a dynamic behavior to our website.

Bootstrap

Bootstrap is a free and open-source tool collection for creating responsive websites and web applications. It is the most popular CSS framework for developing responsive, mobile-first websites..

Syntax of Html

HTML Page Structure

```
<!DOCTYPE html>          ←———————— Tells version of HTML
<html>              ←————————— HTML Root Element

<head>          ←———————— Used to contain  page HTML metadata
    <title>Page Title</title>    ←————————Title of HTML page
</head>

<body>        ←——————— Hold content of HTML
    <h2>Heading Content</h2>      ←———————— HTML headling tag
    <p>Paragraph Content</p>  ←——————— HTML paragraph tag
</body>

</html>
```
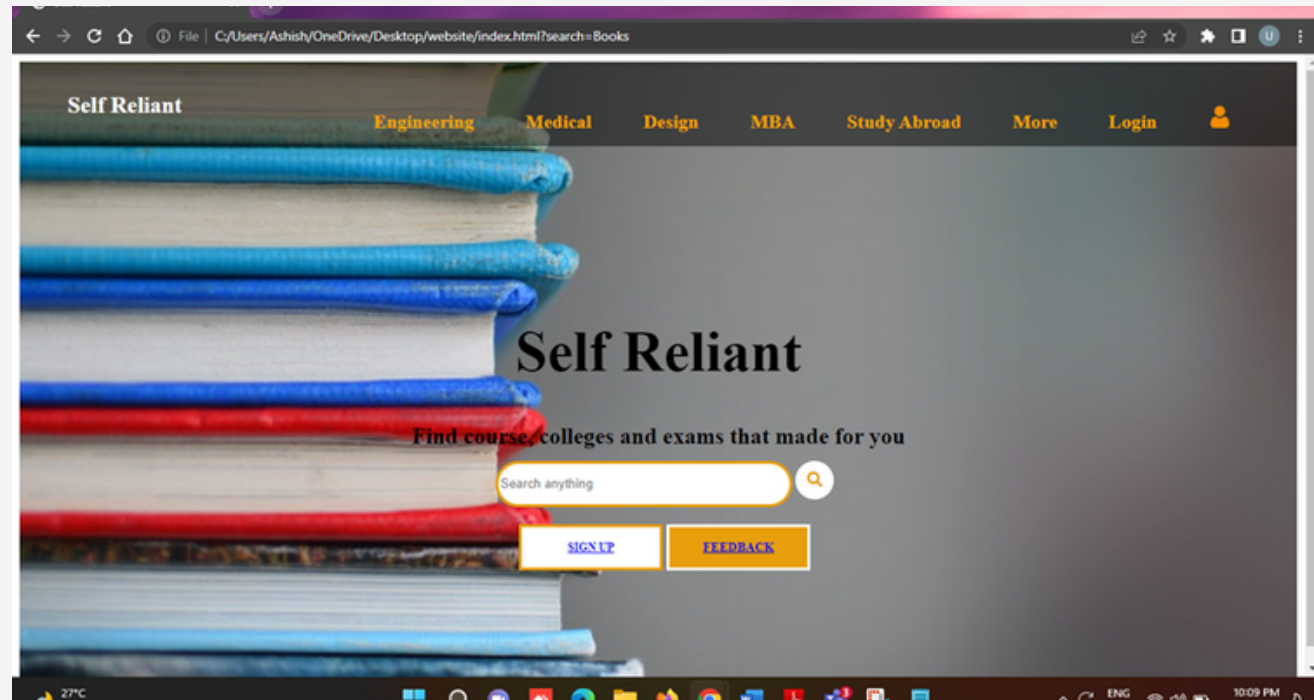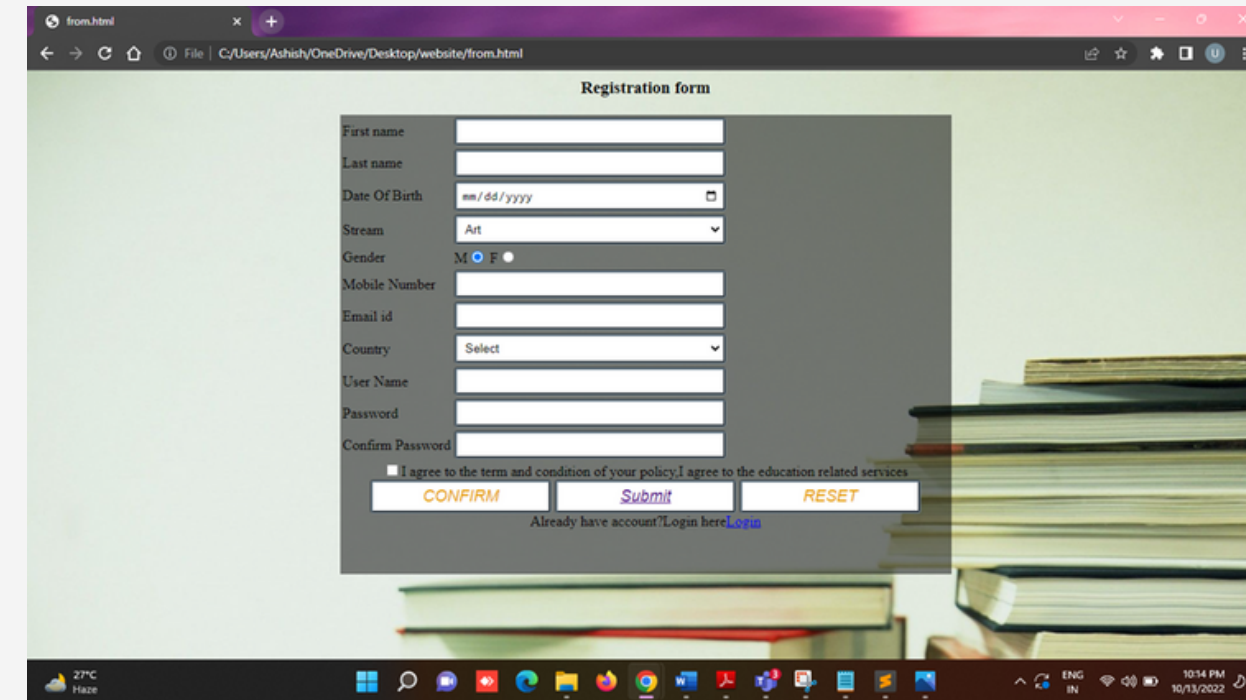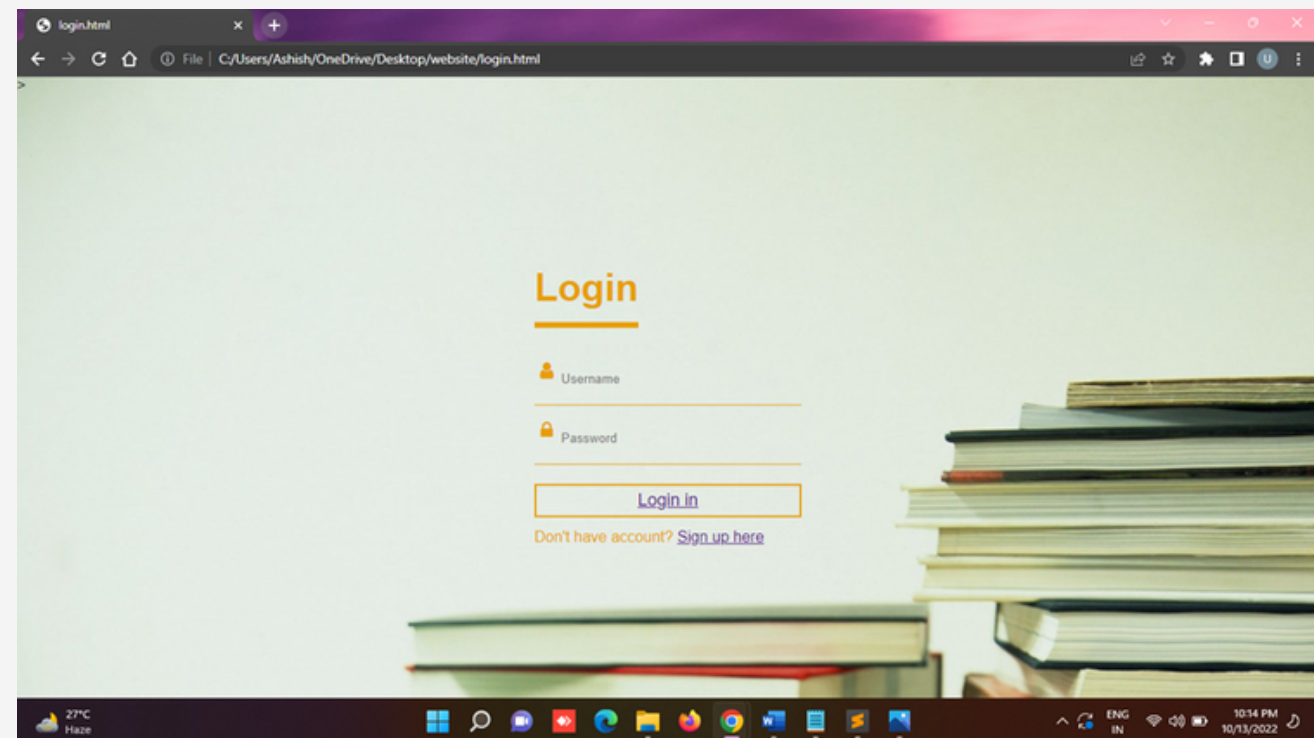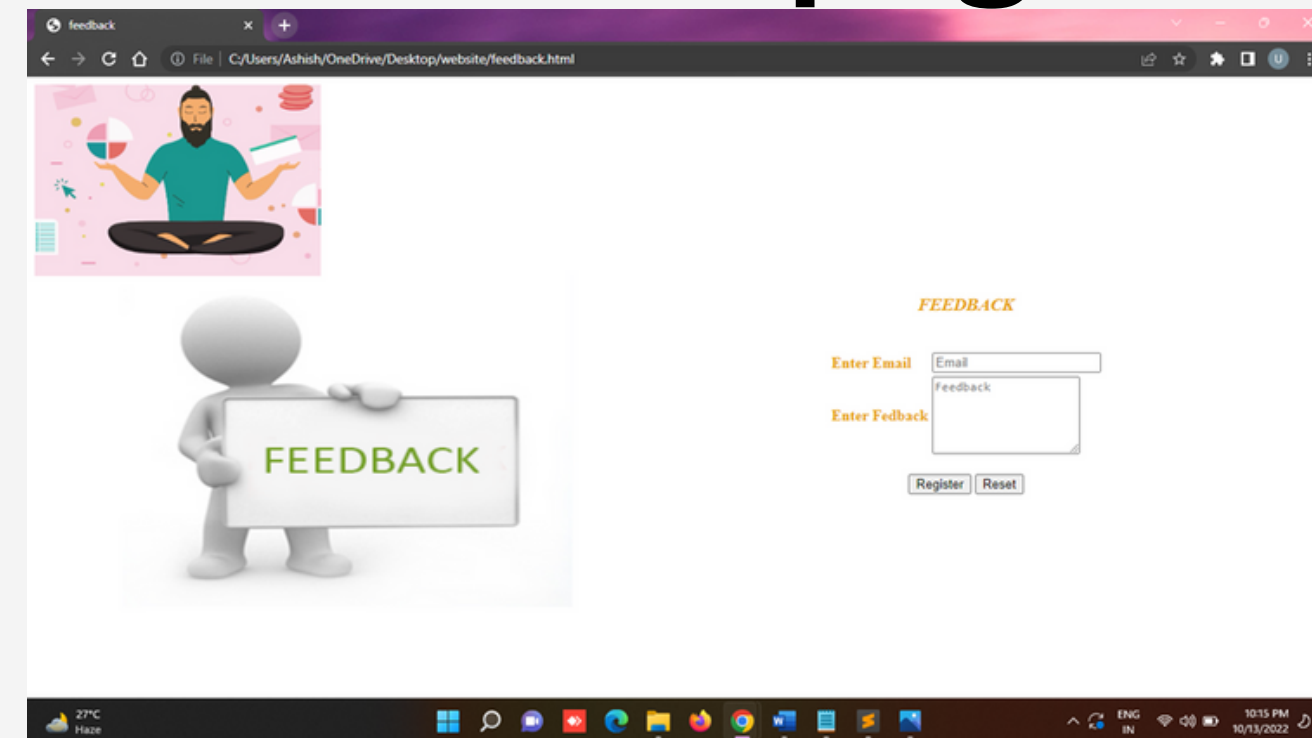
Back to Agenda Page

Home page

Regsiter page

Registration form

First name

Last name

Date Of Birth

Stream

Gender

Mobile Number

Email id

Country

User Name

Password

Confirm Password

I agree to the term and condition of your policy.I agree to the education related services

CONFIRM   Submit   RESET

Already have account?Login here.Login

Login page

Login

Username

Password

Login in

Don't have account? Sign up here

Feedback page

FEEDBACK

Enter Email

Enter Feedback

Register   Reset
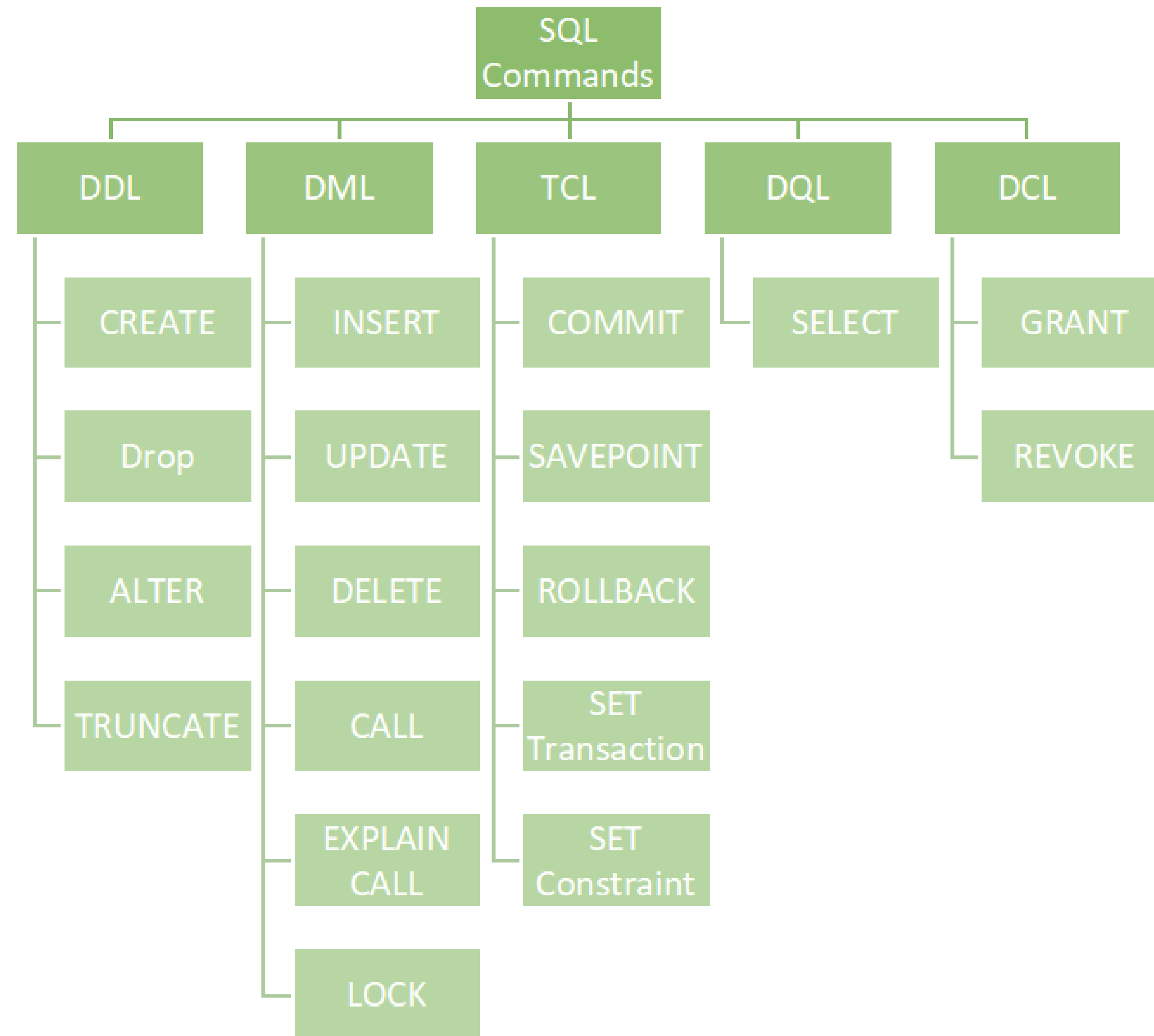
What is DBMS?

Database Management System

- Database management system is a software which is used to manage the database. For example: MySQL, Oracle, etc are a very popular commercial database which is used in different applications.
- DBMS provides an interface to perform various operations like database creation, storing data in it, updating data, creating a table in the database and a lot more.
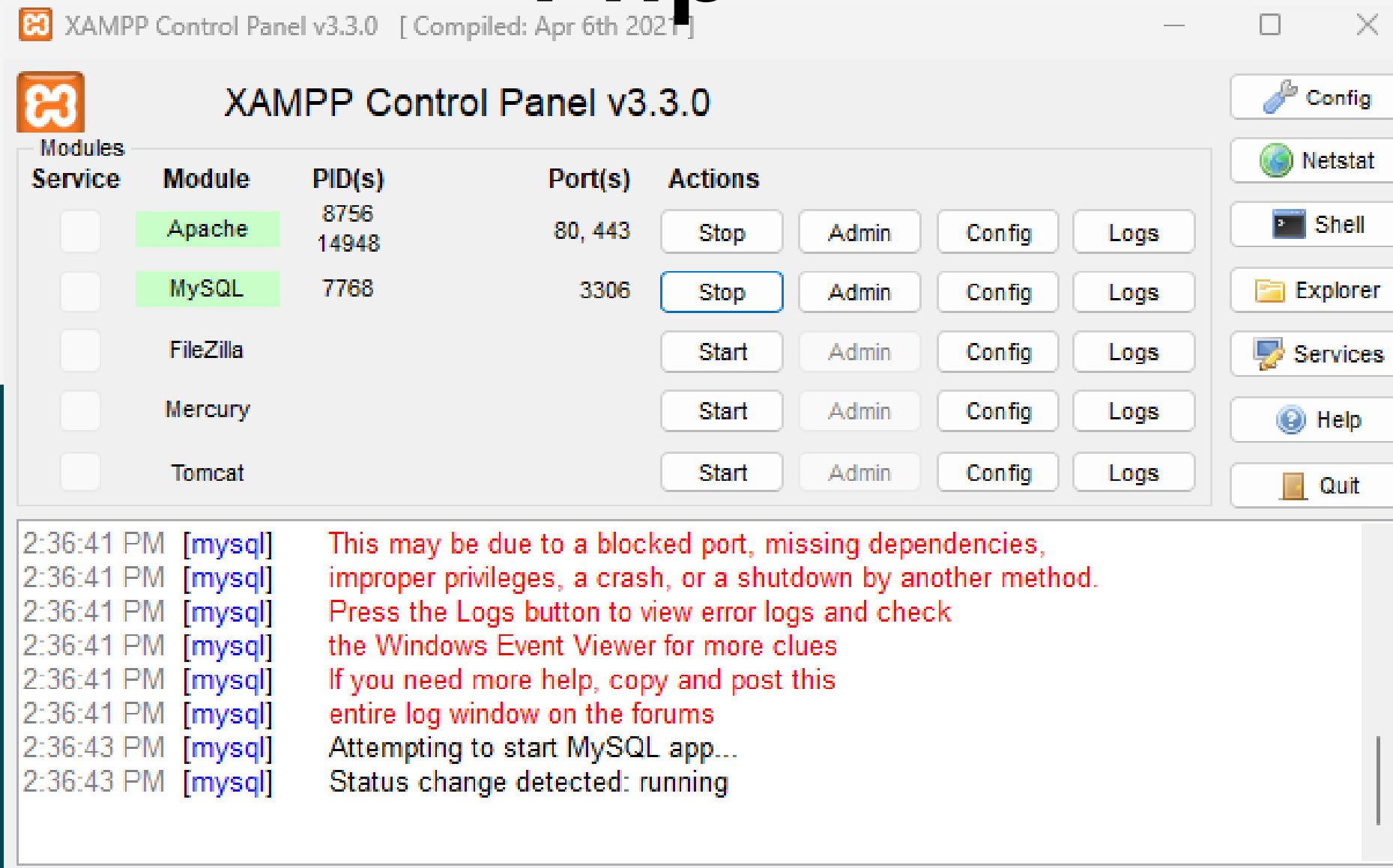
It provides protec

SQL Commands

- DDL
  - CREATE
  - Drop
  - ALTER
  - TRUNCATE
- DML
  - INSERT
  - UPDATE
  - DELETE
  - CALL
  - EXPLAIN CALL
  - LOCK
- TCL
  - COMMIT
  - SAVEPOINT
  - ROLLBACK
  - SET Transaction
  - SET Constraint
- DQL
  - SELECT
- DCL
  - GRANT
  - REVOKE

Database connectivity to Html

- **Step 1: Filter your HTML form requirements for your contact us web page**
- **Step 2: Create a database and a table in MySQL**
- **Step 3: Create HTML form for connecting to database**
- **Step 4: Create a PHP page to save data from HTML form to your MySQL database**
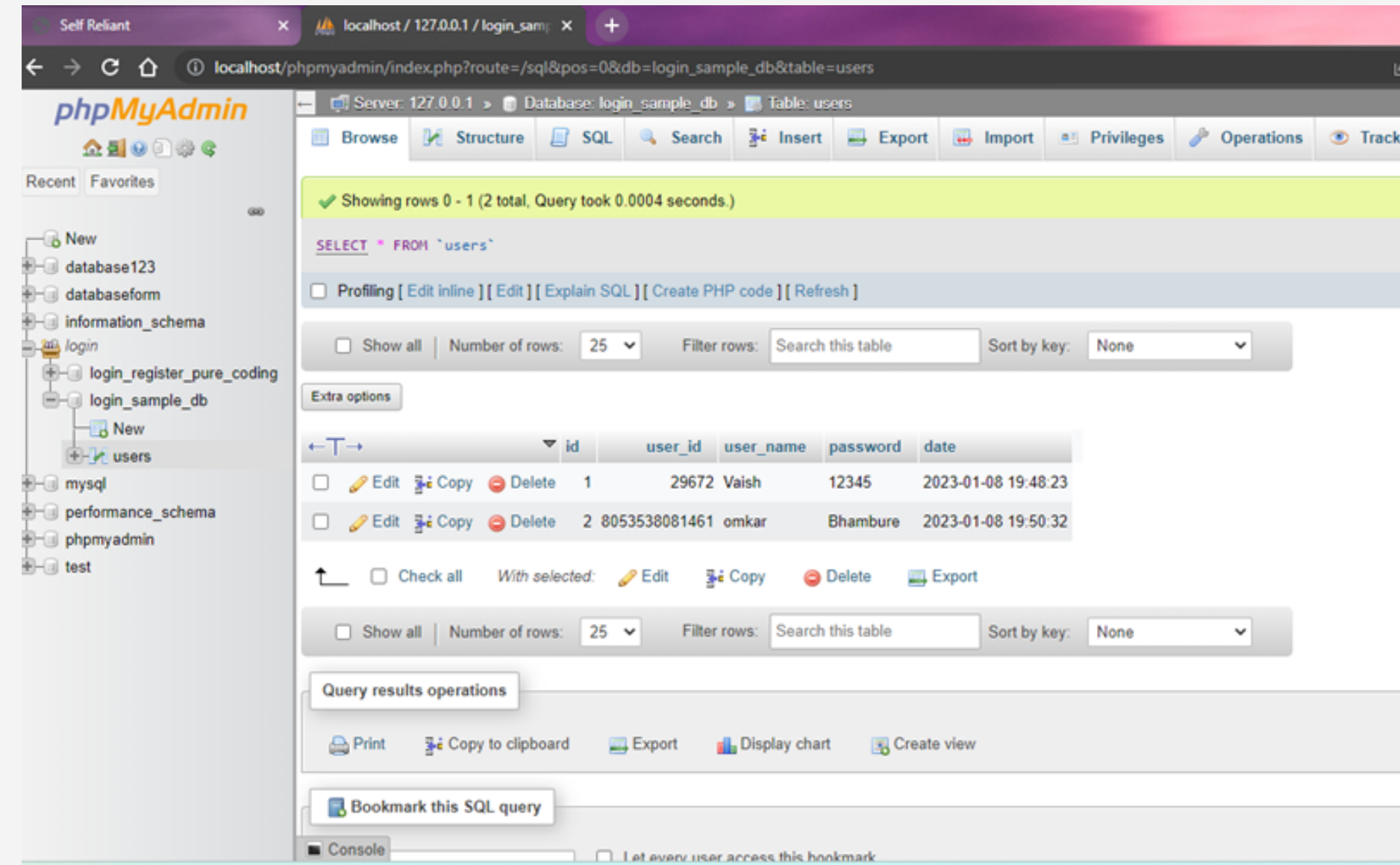
conneting Mysql and Php

Creating Database and table

What is Software Testing

- **Software Testing is a method to check whether the actual software product matches expected requirements and to ensure that software product is Defect free. It involves execution of software/system components using manual or automated tools to evaluate one or more properties of interest. The purpose of software testing is to identify errors, gaps or missing requirements in contrast to actual requirements.**

Types of Testing
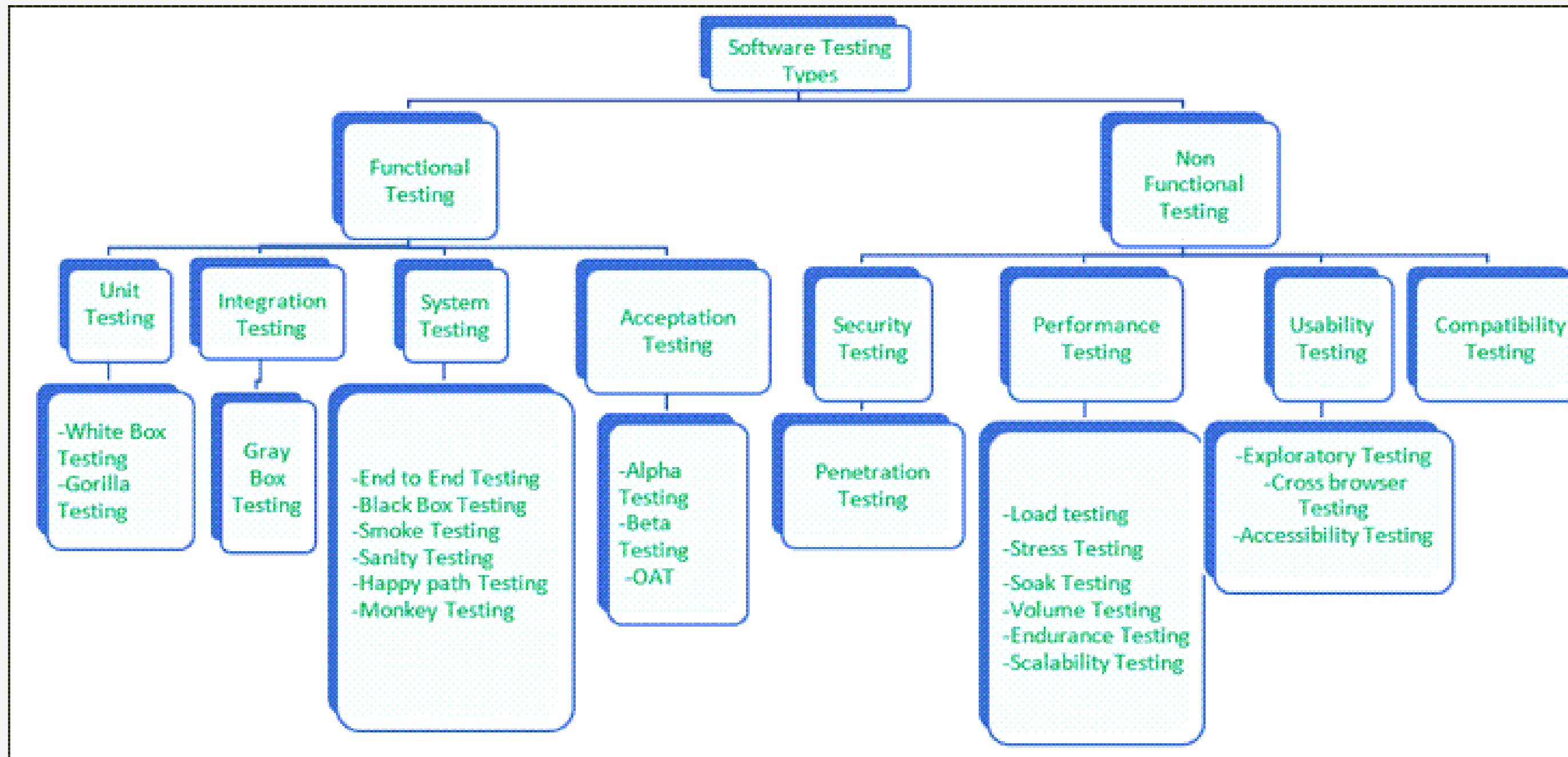
SDLC

SDLC is a process followed for a software project, within a software organization. It consists of a detailed plan describing how to develop, maintain, replace and alter or enhance specific software. The life cycle defines a methodology for improving the quality of software and the overall development process.

SDLC Models:
1.Waterfall Model
2.Iterative Model
3.Spiral Model
4.V-Model
5.Big Bang Model
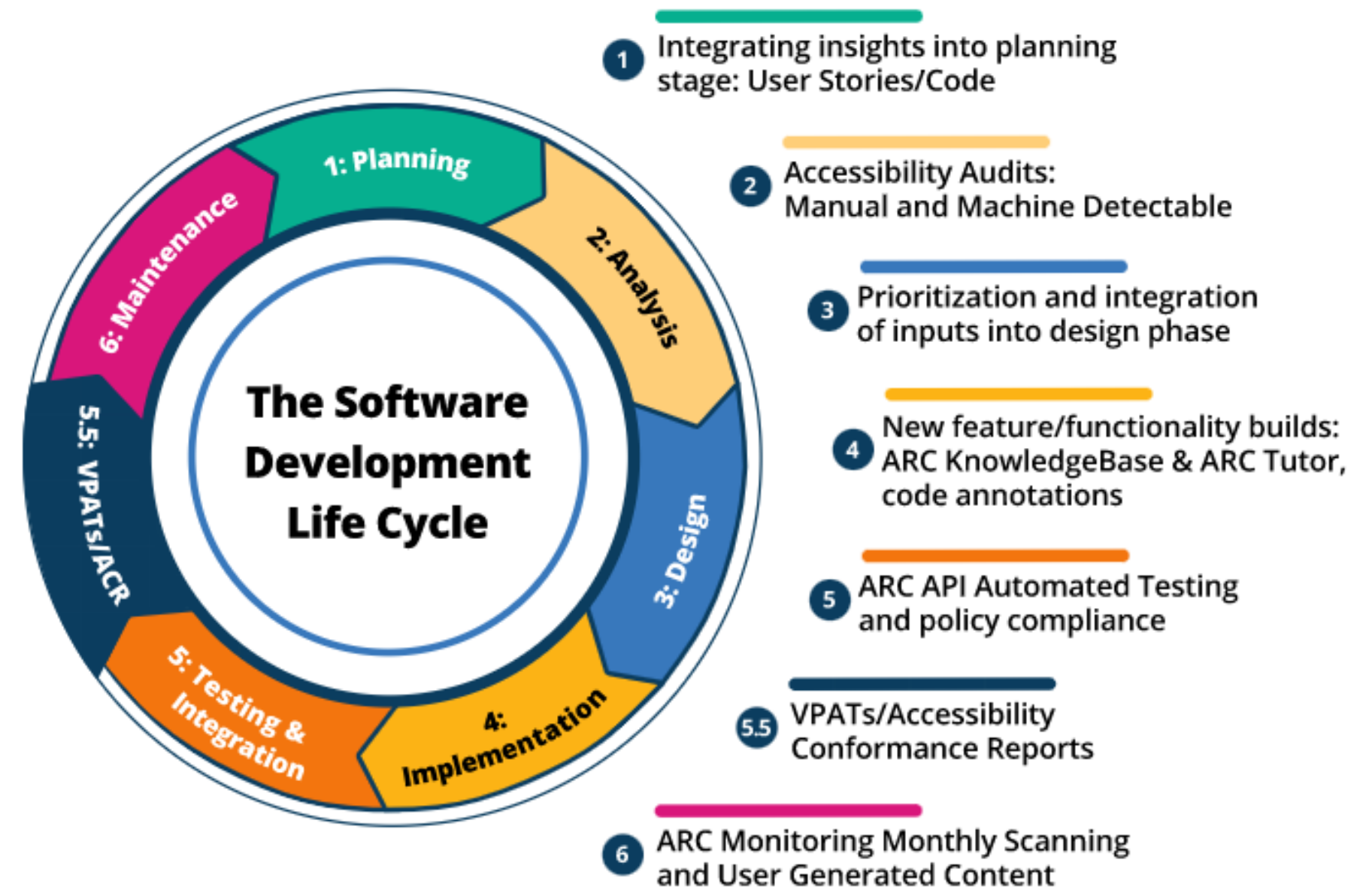
STLC

Software Testing Life Cycle (STLC) is a sequence of specific activities conducted during the testing process to ensure software quality goals are met. STLC involves both verification and validation activities. Contrary to popular belief, Software Testing is not just a single/isolate activity, i.e. testing. It consists of a series of activities carried out methodologically to help certify your software product. STLC stands for Software Testing Life Cycle.

Requirement Analysis

Test Planning

Test Case Design

Test Environment Setup

Test Execution

Test Closure Activity
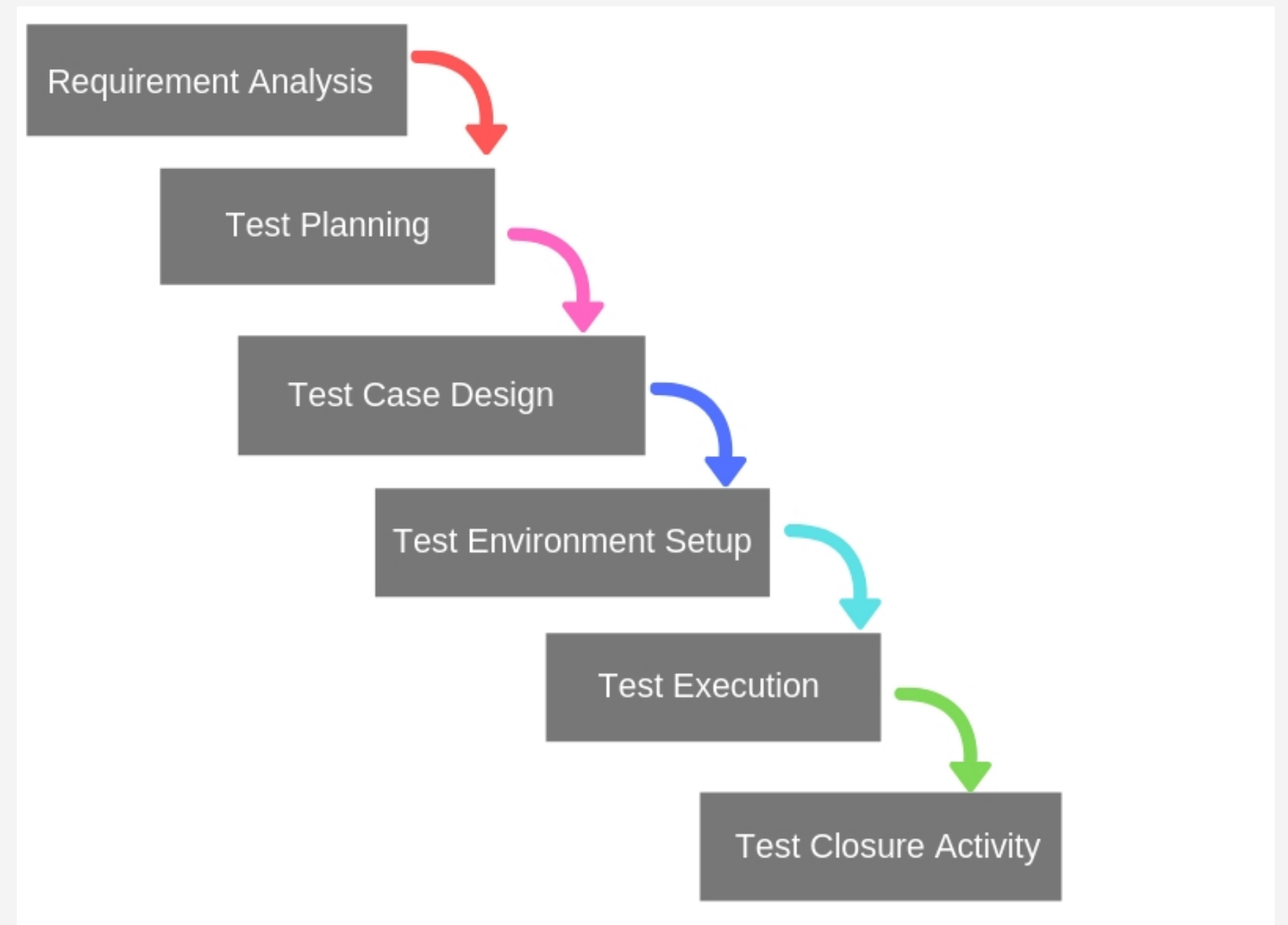
Bug Life Cycle

Defect Life Cycle or Bug Life Cycle in software testing is the specific set of states that defect or bug goes through in its entire life. The purpose of Defect life cycle is to easily coordinate and communicate current status of defect which changes to various assignees and make the defect fixing process systematic and efficient.

Boundary Value Analysis
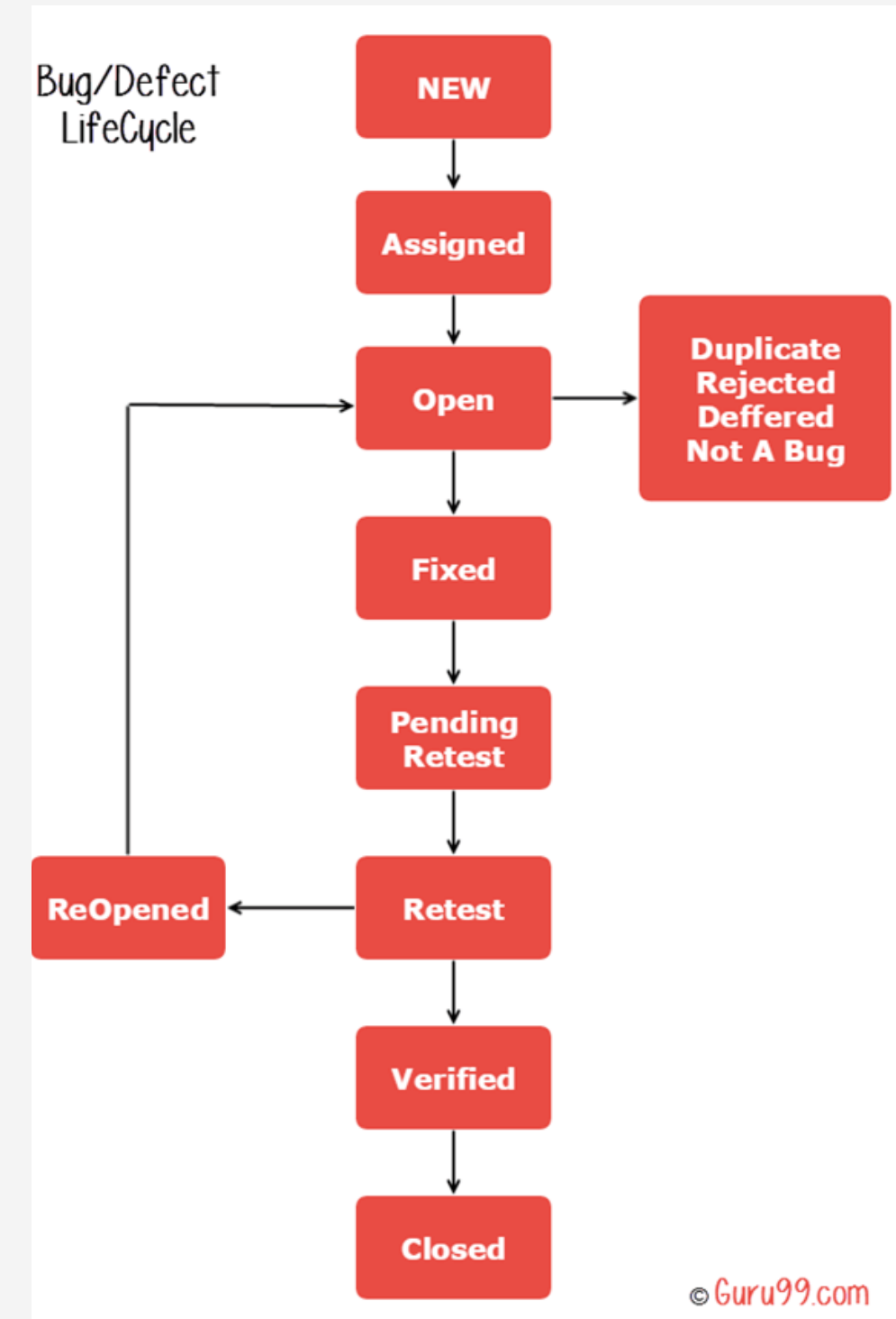
Equivalence Partitioning

Registration form accept password length of 8 to 13

Registration form age should be 16 to 80

Boundary Value Analysis (Password accepts 8 to 13)		
Invalid (min −1)	Valid (min, min + 1, nominal, max − 1, max)	Invalid (max + 1)
7	8, 9, 10, 12, 13	14

Invalid	Valid	Invalid
15	16 ... 80	81
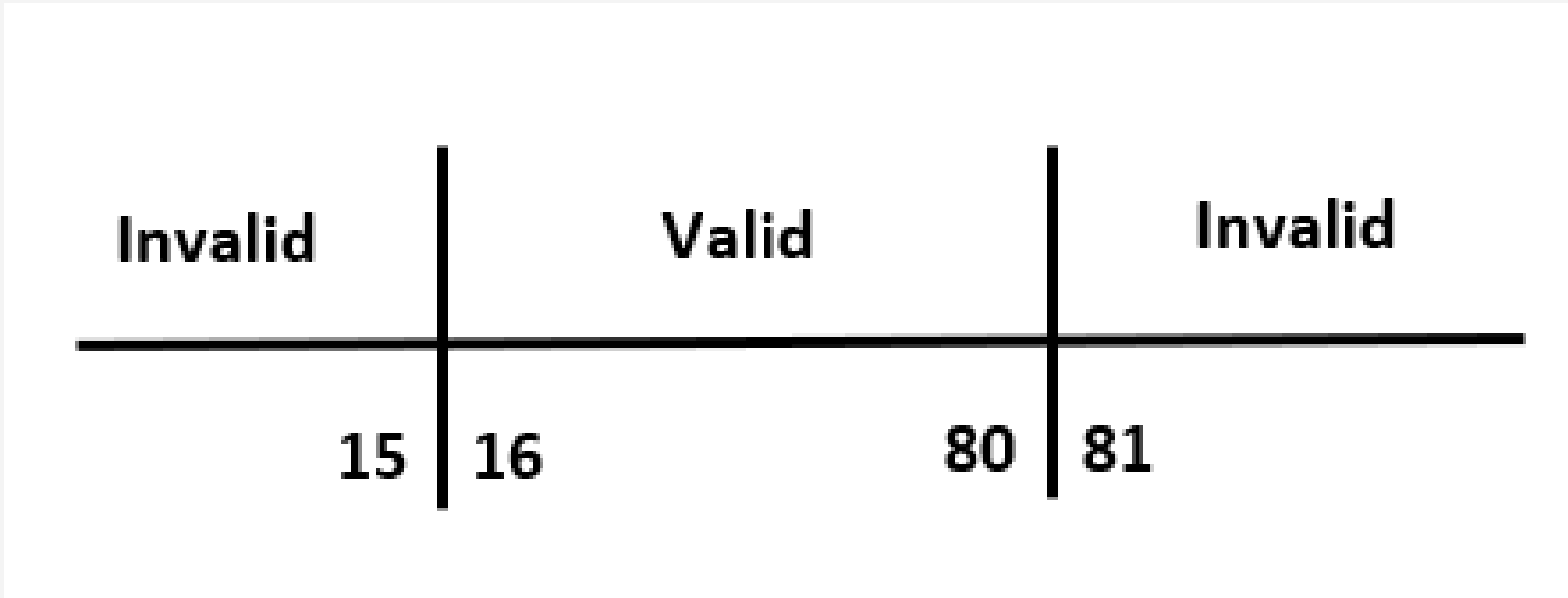
Test Case

Test case id	Test case Description	Pre-condition	Steps	Test data	Expected	Actual results	Post conditions	Result
TC-Self Reliant-001	Creating account using valid details.	1.Internet connectivity 2. Self Reliant app should installed.	Enter First & Last Name	First Name: Vaishnavi Last Name: Bhambure	user should able to proceed fill other detail.	As expected	N/A	Pass
			Date of Birth	01-02-2002	user should able to proceed fill other detail.	As Expected	N/A	Pass
			Stream Gender	Science Female	user should able to proceed to fill further detail.	As Expected	N/A	Pass
			Enter valid mobile number	9076084003	Proceed to fill further details	As Expected	N/A	Pass
			Enter valid Email ID	Vaishnubhambure @gmail.com	Proceed to fill further details	As Expected	N/A	Pass

		Country	India	Proceed to fill further details	As Expected	N/A	Pass
		Username	VaishnuB	Proceed to fill further details	As Expected	N/A	Pass
		Enter valid Password	*******	Proceed to fill further details	As Expected	N/A	Pass
		Enter Confirm password	********	Proceed to fill further details	As Expected	N/A	Pass

Test Case

TEST SCENARIO ID	TS 002
TEST SCENARIO	verifying the search functionality

Test case id	Test case Description	Pre-condition	Steps	Test data	Expected	Actual results	Post conditions	Result
TC-Self Reliant-006	checking website accept alphabets, number And special characters.	1.Internet connectivity 2. Self reliant app should installed.	Enter Valid college name or Exam name	Ferguson college Or MH-CET	It will displayed the collges	As expected	N/A	Pass

Cucumber Testing

Cucumber is a widely used tool for Behaviour Driven Development because it provides an easily understandable testing script for system acceptance and automation testing.

What is BDD

BDD (Behavioral Driven Development) is a software development approach that was developed from Test Driven Development (TDD).

Selenium

Selenium is one of the most widely used open-source Web UI (User Interface) automation testing suite. Selenium supports automation across different browsers, platforms, and programming languages

Feature File

The feature file is the essential segment of cucumber tool, which is used to write acceptance steps for automation testing. Acceptance steps generally follow the application specification.
A feature file is usually a common file which stores feature, scenarios, and feature description to be tested.

Implementation of Cucumber

Feature File

```
Feature: User tries to login to selfreliant.com with valid credentials

    Scenario: Valid login
        Given I am a user of selfreliant.com
        When I log in using valid credentials
        Then I should be logged in


    Scenario: Invalid login
        Given I am a user of selfreliant.com
        When I log in using invalid credentials
        Then I should not be logged in
```

Selenium Code

```java
1  package StepDefinations;
2  import org.openqa.selenium.By;
9
10 public class selfReliant_login {
11     WebDriver driver;
12     @Given("I am a user of selfreliant.com")
13     public void i_am_a_user_of_amazon_com() throws InterruptedException {
14
15         System.setProperty("Webdriver.chrome.driver",
16             "C:\\Users\\Ashish\\Downloads\\chromedriver_win32\\chromedriver.exe");
17         driver=new ChromeDriver();
18         driver.manage().window().maximize();
19         driver.get("file:///C:/Users/Ashish/OneDrive/Desktop/website/index.html");
20         Thread.sleep(2000);
21     }
22     @When("I log in using valid credentials")
23     public void i_log_in_using_valid_credentials() {
24         driver.findElement(By.xpath("/html/body/div/div[1]/div[2]/ul/li[7]/a")).click();
25         //to enter username
26         driver.findElement(By.id("user")).sendKeys("VaishnuB");
27     //to enter password
28         driver.findElement(By.id("pss")).sendKeys("Vaish@123");
29
30     }
31     @Then("I should be logged in")
32     public void i_should_be_logged_in() {
33         driver.findElement(By.xpath("/html/body/form/button/a")).click();
34
35     }
36     @When("I log in using invalid credentials")
37     public void i_log_in_using_invalid_credentials() {
```

Back to Agenda Page

Conculsion

The project entitled Self Reliant Website was completed successfully. The system has been developed with much care and free of errors and at the same time it is efficient and less time consuming. The purpose of this project was to develop a web application and an android application for purchasing items from a shop This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using html CSS, and JavaScript. The project helped us understanding about the development phases of a project and software development life cycle. We learned how to test different features of a project

This project has given us great satisfaction in having designed an application which can be implemented to any nearby colleges and other abroad colleges ,course provide bby different colleges with enter exam for that and fees also by simple modifications. There is a scope for further development in our project to a great extend. A number of features can be added to this system in future like providing.