

STQA MINI PROJECT

LABORATORY PRACTICE – IV

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COVID-19 TESTING MANAGEMENT SYSTEM

Title

Mini-Project 1

Software Testing and Quality Assurance Mini Project Dynamic website of covid-19 information using HTML, CSS, JAVASCRIPT And PHP, MySQL database used to store user account, comment, and registration form details. Regular Expression testcases for testing purpose.

Problem Definition

Software Testing and Quality Assurance Mini Project Dynamic website of covid-19.

Software Requirements

PHP, CSS, BOOTSTRAP, MySQL

Hardware Requirement

8GB RAM, 1 TB HDD, i5 Processor 10th gen , 2.4 GHz

Learning Objectives

We are going to learn Dynamic website of covid-19 information using HTML, CSS, JAVASCRIPT And PHP, MySQL database used to store user account, comment, and registration form details.

Theory

- Software Testing :

Testing is the process of evaluating a system or its components to find whether it satisfies the specified requirements or not.

- Test Cases :

A Test Case is a set of actions executed to verify a particular feature or functionality of your software application. A Test Case contains test steps, test data, precondition, postcondition developed for specific test scenario to verify any requirement.

- Regular Expression testcases :

A regular expression testcase is a pattern that is used to match in input text. A pattern consists of one or more character literals, operators, or constructs.

Nowdays, Covid-19 TMS is one of the essential technique that are worldwide used in testing labs. It is mostly used for Covid-19 related issues in laboratory. In this project we tried to develop online and web based applications of Covid-19 TMS

Our main focus is to minimize the crowd in area, because main reason of Covid19 spreading in large amount is people crowd in area.

We develop online system for Covid-19 management that brings up various COVID-19 test working online. Using this system we take Covid test through online platform. This system is very essential because first all of you not come to goes hospital for covid testing. Covid-19 TMS lab boy simply comes to home after register on portal at slotted time and collect sample from them.

Covid-19 TMS is online based platform technology which is used for covid-19 testing. For testing first user or patient register on Covid-19 TMS portal provide personal test information. After registered on portal patient can see many variety of test conducted by labs. After registration patient will select the required test and book appointment as per consultation. After successful sample collection patient can track their history using registered mobile number or email id. The system can show the report on user side so user can download report easily. In COVID19 Testing Management System we use PHP and MySQL database.

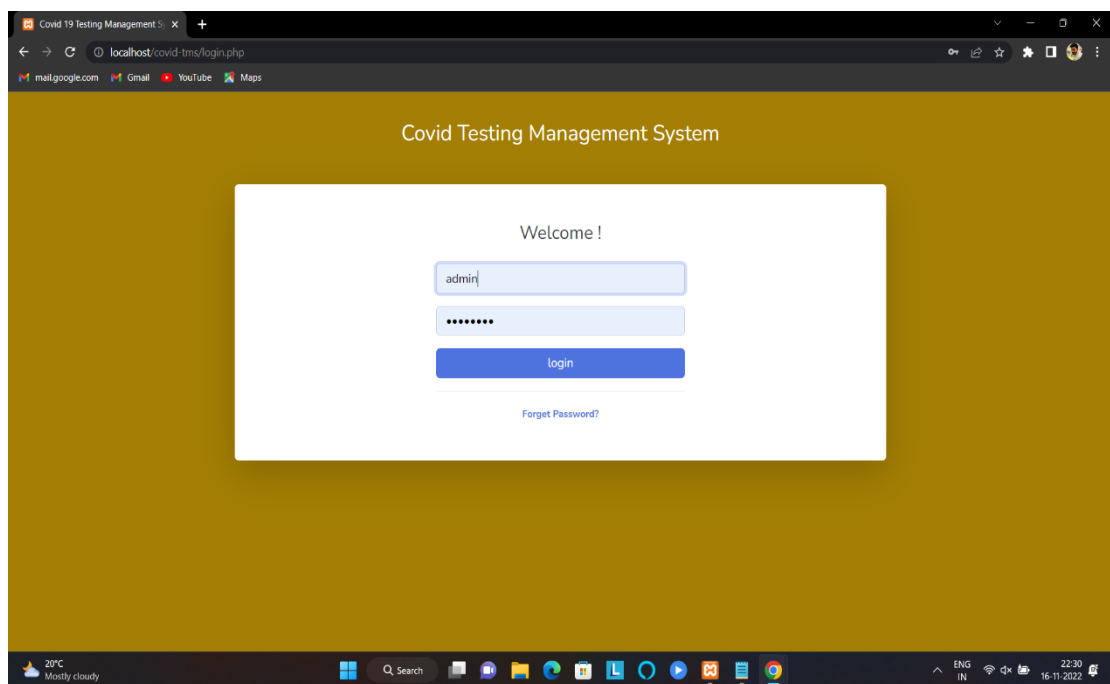
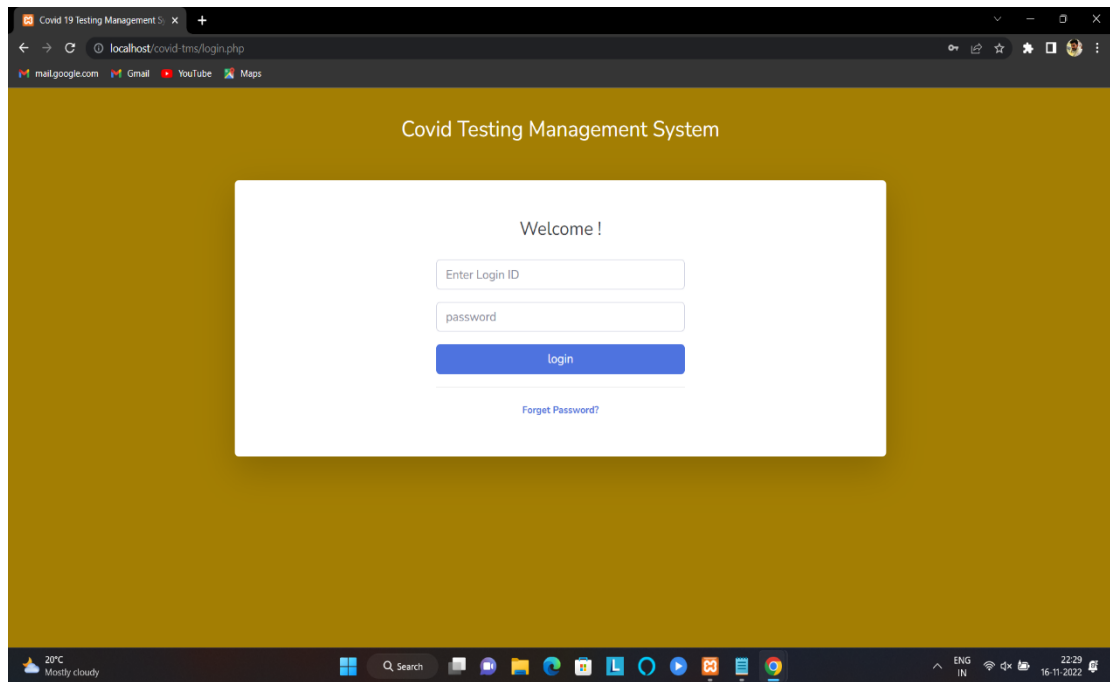
It includes two types of modules.

1. Admin Module:

Admin is the super-user of the website who can manage everything on the website. Admin can log in through the login page.

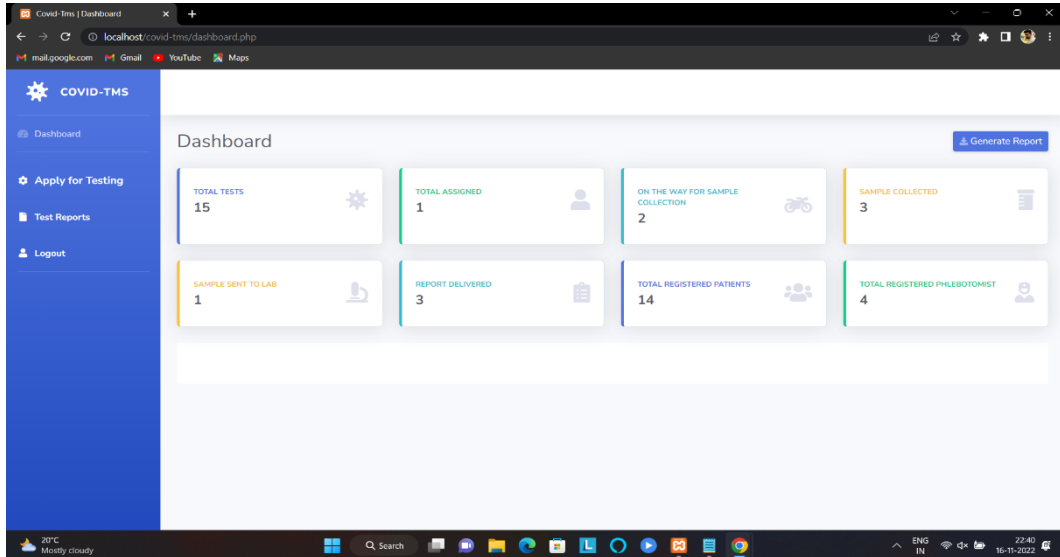
2. Patients Module:

User can visit the application through a URL.

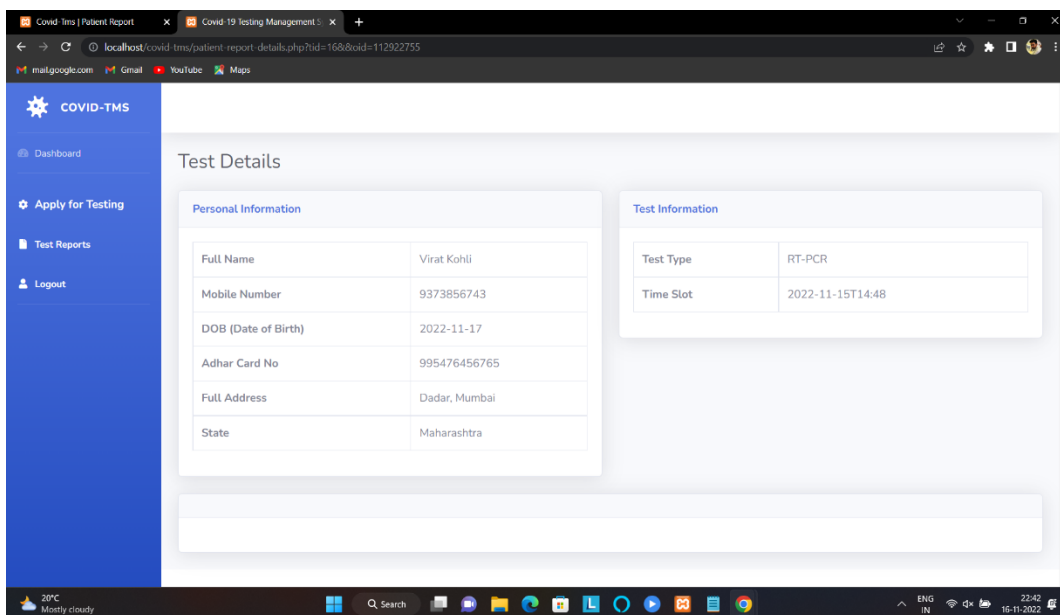


1. Admin Module:

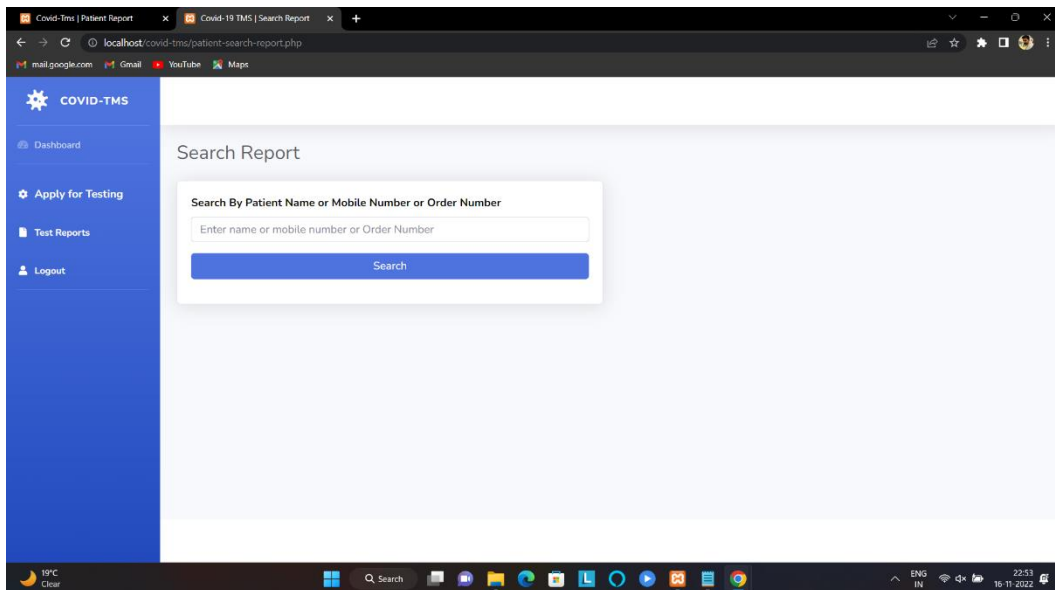
- **Dashboard:** In this section, the admin can see all detail in brief like the total, assigned and the sample collected and completed tests.



- **Testing:** In this section, the admin can manage all the tests like assign the test to Phlebotomist and update the history. Also we can view details in view section.

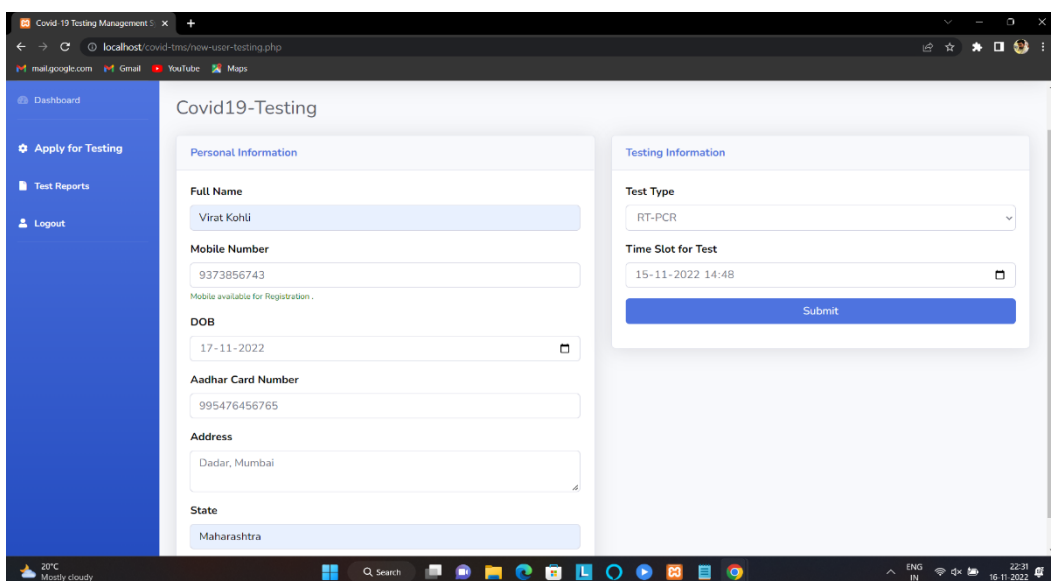


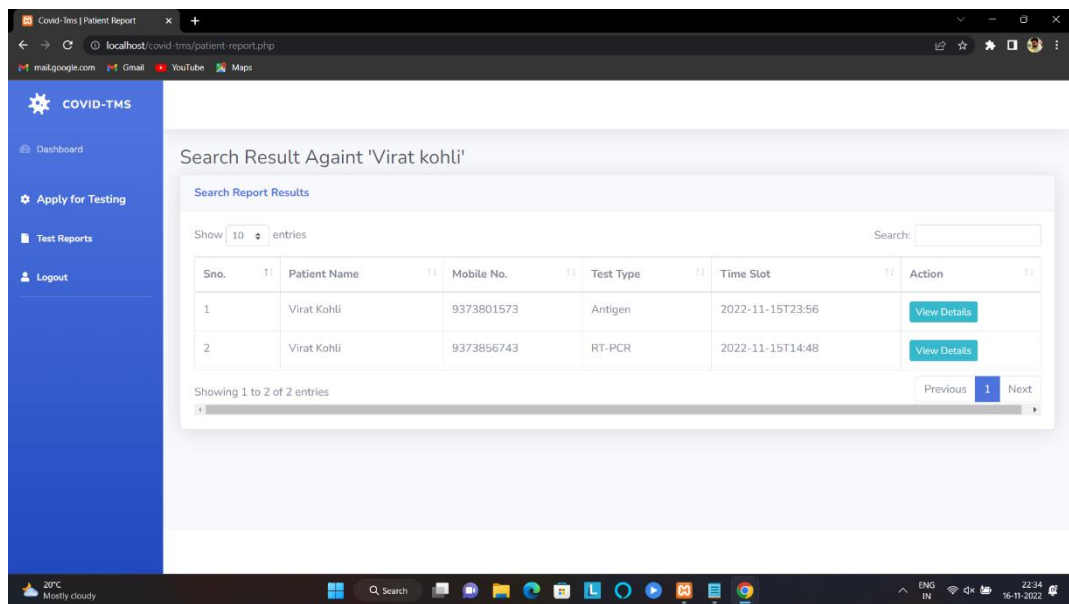
- **Report:** In this section, the admin can generate report.
By search using order number, name and mobile number



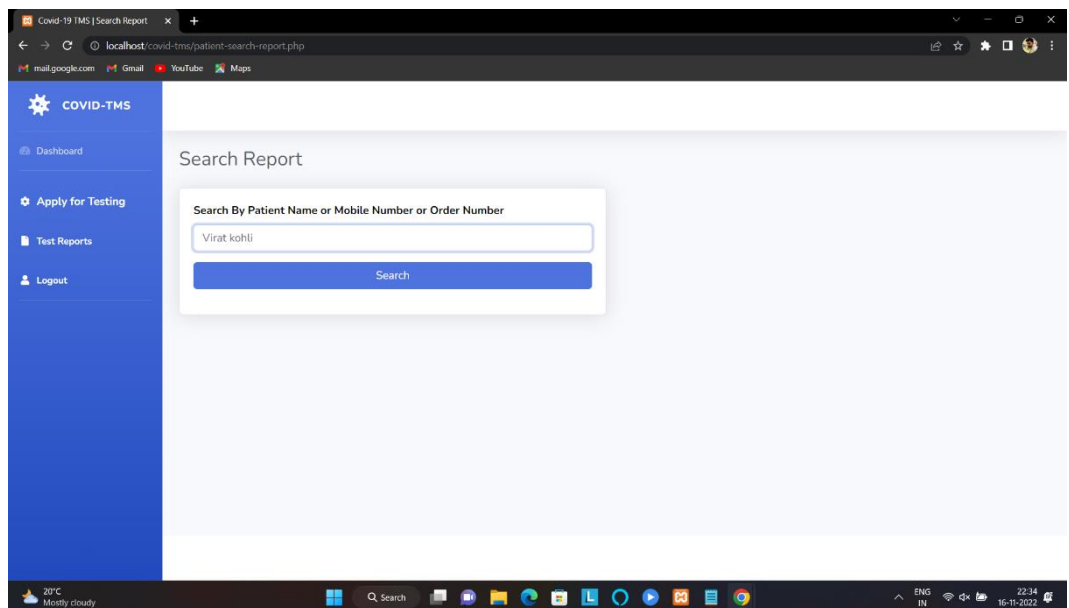
2. Patients' module:

- **Testing:** This section divided into two parts. One is for new user and another one is for registered user. New user (First-time user) needs to provide personal and testing Information. A registered user only needs to provide test information, their personal information will be fetched from the database.





- Report: In this section, Users can search their test report using order number, name and registered mobile number.



Testing

- Full Name Regular Expression : [A-Za-z]+

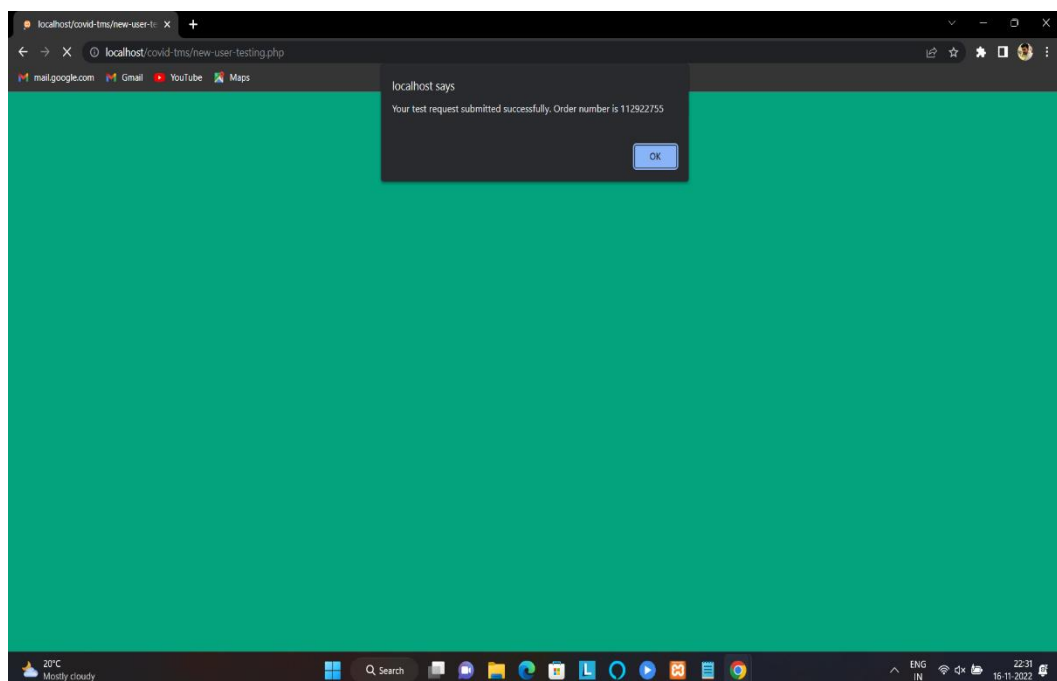
The screenshot shows the 'Covid19-Testing' registration page. The 'Personal Information' section has the following fields: Full Name (containing '12346'), Mobile Number (empty), DOB (containing 'dd-mm-yyyy'), Aadhar Card Number (empty), Address (empty), and State (empty). The 'Testing Information' section has 'Test Type' (a dropdown menu) and 'Time Slot for Test' (containing 'dd-mm-yyyy --:--'). A blue 'Submit' button is at the bottom. A tooltip message says: 'Please match the requested format. letters only'. The browser address bar shows 'localhost/covid-tms/new-user-testing.php'.

- Mobile Number Regular Expression : [0-9]{10}

The screenshot shows the 'Covid19-Testing' registration page with the following inputs: Full Name (containing 'Kunal Desai'), Mobile Number (containing 'babanam'), DOB (containing 'dd-mm-yyyy'), Aadhar Card Number (empty), Address (empty), and State (empty). The 'Testing Information' section is the same as in the previous screenshot. A tooltip message says: 'Please match the requested format. 10 numeric characters only'. The browser address bar shows 'localhost/covid-tms/new-user-testing.php'.

- Aadhar Card Number Regular Expression : $[0-9]\{12\}$

- Submitting Form



- Use Case Test Cases

No.	Test Cases	Test Pass or Not
1	Is the login page visible?	Yes
2	Are we able to Enter the Email and Password?	Yes
3	Does Password Hides after we type it?	Yes
4	Does Login button redirects to proper page after we click on it?	Yes
5	Does Full Name Textbox takes only Character String as input?	Yes
6	Does Mobile Number Takes only 10 Numbers and gives right prompt if we Enter wrong format?	Yes
7	Are we able to Select Date of Birth?	Yes

No.	Test Cases	Test Pass or Not
8	Does Aadhar Card No Takes only 12 Numbers and gives right prompt if we Enter wrong format?	Yes
9	Are we able to fill Address , State ?	Yes
10	Are we able to Select Test type and Time slot?	Yes
11	Is submit Button working Properly and gives us proper Prompt?	Yes
12	Are we able to enter the patient name / Mobile No. to search details?	Yes
13	Are we getting the proper search result after clicking search button?	Yes
14	Are we able to see details after clicking on detail button?	Yes

Conclusion

Thus , We were able to create a dynamic website of Covid-19 information and were also able to test it using Regular Expression as well as Use case Test Cases .