

Course : Web Technology

Class : TE-4

Batch : M4

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Title : Covid-19 Test Management

Problem statement:

In the crisis of covid 19. The number patient and covid tests was too high. To manage this testing properly we have to develop covid 19 testing management project. Here admin control all the flow of website who can login through the login page. There are number of patient who want their covid 19 test to be done as soon as possible. So, this portal is used to manage this load properly

Objectives:

- 1) One will be able to deploy a full fledged web application
- 2) One will be able to design a good UI/UX web-based application
- 3) To utilize various technologies to design a web application

Outcome :

- 1) Created a web-application using various technologies
- 2) Implemented UI/UX standards for creating a good visual bases and functional web-based application

Resourced Used :

Software Resources		
<i>Sr No.</i>	<i>Name</i>	<i>Description</i>
1)	Xampp	Webserver v3.3.0
2)	MySQL	Backend Database – v8.0
3)	HTML5	Front End v5

	CSS	Cascaded Style sheet
Hardware Resources		
1)	Computer System	
	Display	FHD Display
	Processor	I5 – 2.50GHZ
	RAM	8 GB
	HDD	1 TB

Methodology:

There are two modules in the portal-

1. Admin
2. User

Admin module: admin is the super-user of the portal. Admin works through following sections:

- **Dashboard:** In this section, admin can see all detail of sample collected and assigned and completed tests.
- **Phlebotomist:** In this section, the admin can manage Phlebotomist (add, update, delete, view profile).
- **Testing:** In this section, the admin can manage all the tests like assign the test to Phlebotomist and update the history.
- **Report:** here, the admin can generate two types of report. One is between dates reports and another one is by search. Admin can search the report by name, order number and mobile number.
- **Notification:** here, the admin will get a notification for every new test request (notification bell).
Admin can also update his profile, change the password and recover the password.

User(Patient) 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.
- **Dashboard:** In this section, the User can see the in which State of how many tests are done.

Table Description:

Following are the tables along with constraints used in *Covid Test Management* database.

1) **tbladmin:** As every system has at least one admin who operates all the things at the root level therefore in this system the tbladmin table can be called as important one because this tables stores all the information about the admin of the whole system. So, this table store the admin's personal data like ID, Name, Username, Mobile-number, email-id, password, Admin's registration date.

Constraints: id of the admin should be unique for all admin in case there are more than one admin

2) **tblpatients:** This table will store all the important data of the patients like id, fullname, mobile number, date-of-birth, government issued id, full address, state, registration date. This table will be referred by other tables too where the patient personal data is required like in table 'tbltestrecord', etc.

Constraints: The identity number associated with every patient should be unique and should not be empty for every record.

3) **tblphlebotomist**: This table will store the data associated with the phlebotomist; A person who takes sample from the body for diagnostic purpose. The data will include id of the phlebotomist, employee id, full name, mobile-number, registration date.

Constraints: The identification number (id) of the phlebotomist will remain unique for every individual record in the table

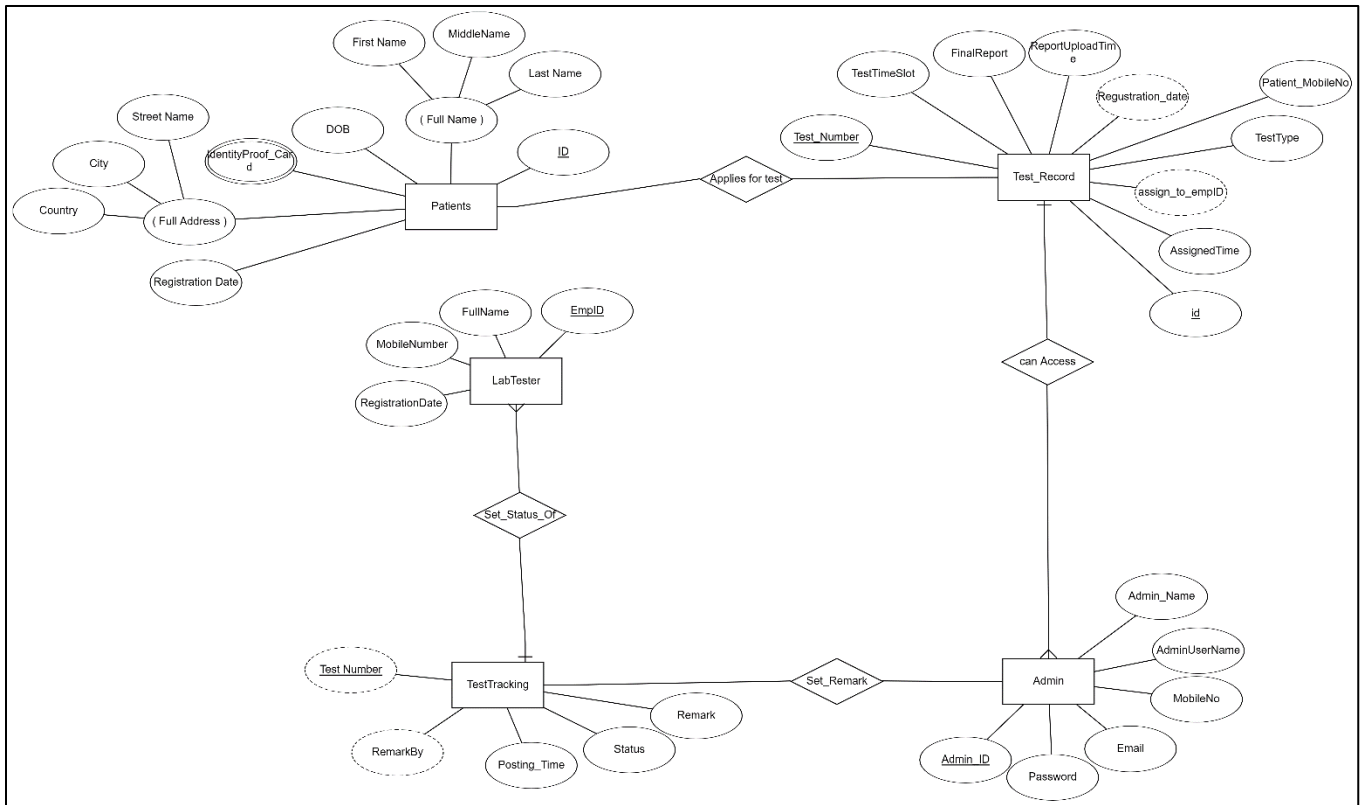
4) **tblreporttracking**: this table will be responsible for managing the report of the patients. This data will include id of the report again which will be unique for all the reports in the table, order number of the report, remark which will represent whether the sample is collected, sample is sent to the lab, report uploaded, delivered, etc. Next remark that will be an extension of the remark field, next posting time that will show the timestamps of the activities, finally remarkBy field that will contain the id of responsible person or phlebotomist.

Constraints: The report will be segregated based on the identification number. Hence, it is important for all the records to have unique identification number, and this should not be empty for all the records.

5) **tbltestrecord**: This table will contain the information about the information needed to generate the report of the patient. It will contain the data like id, order number, patient's mobile number, test type, test time slot, report status, final report, time when report was uploaded, registration date, id of the phlebotomist to whom this case is assigned, name of the phlebotomist to whom this case is assigned, time when this case was assigned.

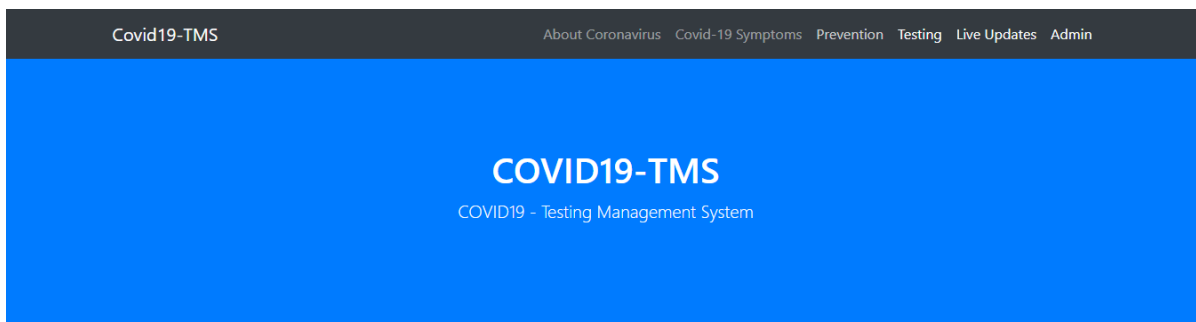
Constraints: The whole data will be uniquely identified record by record based on the identification number provided, therefore it is necessary for the identification number to be unique.

E-R Diagram(Conceptual Design using ER features)



Results:

Home Page



About this page

Coronavirus disease (COVID-19) is an infectious disease caused by a newly discovered coronavirus. Most people infected with the COVID-19, virus will experience mild to moderate, respiratory illness & recover without requiring special treatment. Older people and those with underlying medical problem like cardiovascular disease.

The COVID-19 virus spread primarily through droplet of saliva or discharge from the nose when an infected person coughs or sneezes so it's important that you also practice respiratory etiquette.

Testing for Covid-19

The screenshot shows the 'Covid19-Testing' registration form. On the left is a blue sidebar with the 'COVID19-TMS' logo and navigation links: Dashboard, COVID19 TESTING, Testing (active), Test Report, and Admin. The main content area is titled 'Covid19-Testing' and contains two panels. The 'Personal Information' panel includes fields for Full Name, Mobile Number, DOB, Any Govt Issued ID, Govt Issued ID Number, and Address. The 'Testing Information' panel includes a Test Type dropdown, a Time Slot for Test date picker, and a Submit button.

COVID19-TMS

- Dashboard
- COVID19 TESTING
 - Testing
 - Test Report
- Admin

Covid19-Testing

Personal Information

Full Name
Enter your full name...

Mobile Number
Please enter your mobile number

DOB
mm/dd/yyyy

Any Govt Issued ID
Pancard / Driving License / Voter id / any other

Govt Issued ID Number
Enter Government Issued ID Number

Address
Enter your full address here

Testing Information

Test Type
Select

Time Slot for Test
mm/dd/yyyy --:-- --

Submit

User Dashboard after login showing all the information

This screenshot shows the user dashboard after login. The left sidebar is a solid blue bar. The main content area displays the 'Personal Information' and 'Testing Information' panels with the user's data. The 'Personal Information' panel includes fields for Full Name, Mobile Number, DOB (formatted as yyyy-mm-dd), Any Govt Issued ID, Govt Issued ID Number, Address, and State. The 'Testing Information' panel includes a Test Type dropdown, a Time Slot for Test date picker, and a Submit button.

Personal Information

Full Name
Nidhi Patil

Mobile Number
9834680116

DOB (yyyy-mm-dd)
2002-01-09

Any Govt Issued ID
pancard

Govt Issued ID Number
ug9216397

Address
43, b, donde colony, deopur, Dhule

State
MAHARASHTRA

Testing Information

Test Type
Select

Time Slot for Test
mm/dd/yyyy --:-- --

Submit

Order for testing of particular user

COVID19-TMS

Dashboard

COVID19 TESTING

Testing

Test Report

Admin

Search Result Against '9834680116'

Search Report Results

Show 10 entries

Search:

Sno.	Order No.	Patient Name	Mobile No.	Test Type	Time Slot	Reg. Date	Action
1	971886271	Nidhi Patil	9834680116	RT-PCR	2021-11-21T13:17	2021-11-21 12:58:59	View Details
2	302035127	Nidhi Patil	9834680116	RT-PCR		2022-05-01 13:32:56	View Details
Sno.	Order No.	Patient Name	Mobile No.	Test Type	Time Slot	Reg. Date	Action

Showing 1 to 2 of 2 entries

Previous 1 Next

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Test Details

COVID19-TMS

Dashboard

COVID19 TESTING

Testing

Test Report

Admin

Test Details# 971886271

Personal Information

Full Name	Nidhi Patil
Mobile Number	9834680116
DOB (Date of Birth)	2002-01-09
Govt Issued Id	pancard
Govt Issued Id No	ug9216397
Full Address	43, b, donde colony, deopur, Dhule
State	MAHARASHTRA
Profile Reg Date	2021-11-21 12:58:59

Test Information

Order Number	971886271
Test Type	RT-PCR
Time Slot	2021-11-21T13:17
Report Status	Delivered
Assign To	Amit Singh-(12587493)
Assigned Date	21-11-2021 01:04:27 PM
Report	Download
Report Delivered Time	25-11-2021 06:00:49 PM

Test Tracking History

Test Tracking history

Admin

<

Mobile Number	9834680116
DOB (Date of Birth)	2002-01-09
Govt Issued Id	pancard
Govt Issued Id No	ug9216397
Full Address	43, b, donde colony, deopur, Dhule
State	MAHARASHTRA
Profile Reg Date	2021-11-21 12:58:59

Test Type	RT-PCR
Time Slot	2021-11-21T13:17
Report Status	Delivered
Assign To	Amit Singh-(12587493)
Assigned Date	21-11-2021 01:04:27 PM
Report	Download
Report Delivered Time	25-11-2021 06:00:49 PM

Test Tracking History

Remark	Status	Remark Date	Remark By
hasoconacn	On the Way for Collection	2021-11-21 13:10:44	Admin
jyffif	Delivered	2021-11-25 18:00:49	Admin

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Admin Dashboard

COVID19-TMS

Dashboard

Phlebotomist >

Testing >

Report >

<

Admin

Generate Report

Dashboard

TOTAL TESTS

9

TOTAL ASSIGNED

3

ON THE WAY FOR SAMPLE COLLECTION

0

SAMPLE COLLECTED

0

SAMPLE SENT TO LAB

0

REPORT DELIVERED

4

TOTAL REGISTERED PATIENTS

7

TOTAL REGISTERED PHLEBOTOMIST

3

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Admin Report Download

COVID19-TMS

Dashboard

Phlebotomist

Testing

Report

<

B/w Dates Report Date Selection

From Date

mm/dd/yyyy

To Date

mm/dd/yyyy

Submit

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Admin Managing all Phlebotomist

COVID19-TMS

Dashboard

Phlebotomist

Testing

Report

<

Manage Phlebotomist

Phlebotomist Information

Show 10 entries Search:

Sno.	Emp Id	Name	Mobile No.	Reg. Date	Action
1	12587493	Amit Singh	9876543212	2021-05-03 10:21:44	Edit Delete
1	105202365	Rahul	8529631470	2021-05-03 10:22:06	Edit Delete
1	10802364	Sanjeev Tomar	1234567890	2021-05-08 15:04:11	Edit Delete
Sno.	Emp Id	Name	Mobile No.	Reg. Date	Action

Showing 1 to 3 of 3 entries

Previous 1 Next

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Admin adding Phlebotomist

COVID19-TMS

Dashboard

Phlebotomist

Testing

Report

<

Admin

Add Phlebotomist

Personal Information

Employee Id

Enter Emp Id...

Full Name

Enter your full name...

Mobile Number

Please enter your mobile number

Submit

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All Tests Tracking-

COVID19-TMS

Dashboard

Phlebotomist

Testing

Report

New

Assigned

On the Way for Sample Collection

Sample Collected

Sent to lab

Report Delivered

All Tests

<

Admin

New Test Requests

New Test Requests

Showing 1 to 2 of 2 entries

Search:

Sno.	Order No.	Patient Name	Mobile No.	Test Type	Time Slot	Reg. Date	Action
1	716060226	Garima Singh	4598520125	CB-NAAT	2021-05-15T14:22	2021-05-08 11:19:46	View Details
2	302035127	Nidhi Patil	9834680116	RT-PCR		2022-05-01 13:32:56	View Details
Sno.	Order No.	Patient Name	Mobile No.	Test Type	Time Slot	Reg. Date	Action

Showing 1 to 2 of 2 entries

Previous 1 Next

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localhost/covid-tms/assigned-test.php

Notification window-

The screenshot shows the COVID19-TMS Dashboard. On the left is a blue sidebar with navigation links: Dashboard, Phlebotomist, Testing, and Report. The main content area is titled 'Dashboard' and contains eight summary cards: TOTAL TESTS (9), TOTAL ASSIGNED (3), ON THE WAY COLLECTED (0), SAMPLE SENT TO LAB (0), REPORT DELIVERED (4), TOTAL REGISTERED PATIENTS (7), and TOTAL REGISTERED PHLEBOTOMIST (3). An 'ALERTS CENTER' window is open, displaying two notifications: 'A new test received # 716060226' at 2021-05-08 11:19:46 and 'A new test received # 302035127' at 2022-05-01 13:32:56. A 'Generate Report' button is visible in the top right. The footer shows the URL 'localhost/covid-tms/dashboard.php#'. Copyright © covid-tms;

Admin Profile

The screenshot shows the COVID19-TMS Admin Profile page. The left sidebar is identical to the dashboard. The main content area is titled 'Admin Profile' and contains a form with the following fields: Registration Date (2021-04-20 00:00:00), Admin Name (Admin), User Name (admin), Email Id (admin@gmail.com), and Contact Number (1234567890). An 'Update' button is at the bottom of the form. The footer shows the URL 'localhost/covid-tms/admin-profile.php#'. Copyright © covid-tms;

Conclusion

Implementation of Covid test management project helps to store all the kinds of records ,help people to get vaccinated and get their report easily.