ONLINE DIAGNOSTIC LAB MANAGEMENT SYSTEM

ANJALI K   (4MN20CS004)

DRUPAD S   (4MN20CS015)

Under the guidance of:

Prof. Hemanth C,
Assistant Professor,
Dept. of Computer Science & Engineering,
Maharaja Institute of Technology Thandavapura

CONTENTS

◦Introduction

◦ER Diagram

◦Implementations and Results

◦Conclusion and Future Enhancement

◦References

INTRODUCTION

- Online Diagnostic Lab Management System is web based technology which brings up various diagnosis work online.

- Here patients are first allowed to register on the website and also login using registered details.

- Once registered with their address and contact details, the patients may now see a variety of tests conducted by the lab along with their costs and also they take appointment of other person who are not registered. The patient will select the required test and book appointment.

- The system allows admin to attach a copy of the report into the system and automatically shown on user side so user can downloads report.

➤ In Online Diagnostic Lab Management System we use PHP and MySQL database. It has three modules i.e.

1. **Admin**
2. **Lab Employee**
3. **User**

❖Admin:

➤ Admin can briefly view the total register users, total new appointment, total approved appointment, total rejected appointment by admin, total cancelled appointment by user, total sample received, total report uploaded and total employee.

➤ Admin can manage test detail(Add/Update).

➤ Admin can manage employee(Add/Update).

➤ Admin can view the booking appointment and admin also has right to change appointment status according to current status and his/her remarks.

➤ Admin received the information of sample collected by employee and upload the report a test.

➤ Admin view the detail registered users.

➤ Admin can search a particular appointment detail by patient appointment number, name and mobile number.

➤ Admin can view between dates appointment reports, sales report and employee wise report according to dates.

Admin can also update his profile, change the password and recover the password.

❖**Employee :**

➢ Employee can briefly view total new assign appointment, total sample collected, total sample sent to lab and total appointments.

➢ Employee can view test detail.

➢ Employee can view the appointment which is assign by the admin and employee has rights to change the appointment status according to current status.

➢ Employee can search a particular appointment detail by patient appointment number, name and mobile number.

➢ Employee can view how many appointment has been assign, how many sample has been collected and how many appointment has been pending in his/her end.

Employee can also update his profile, change the password and recover the password.

❖Users(Patients):

➢ **Dashboard:** This is the welcome page for users or patients

➢ User can book the appointments for test.

➢ User can view the appointment history and also can check the status of appointment.

➢ User can download the patient report.

User can also update his profile, change the password and recover the password.

Existing and Disadvantages

Disadvantage of present system:

1. **Not user friendly:** The present system not user friendly because data is not stored in structure and proper format.
2. **Manual Control:** All report calculation is done manually so there is a chance of error.

3. **Lots of paper work:** Visitors maintain in the register so lots of paper require storing details.

4. **Time consuming**

Proposed System

➢The system is an online diagnostic lab manager application that brings up various diagnoses working online.

➢Using this system, it will help us to records all transaction made at the daily sales;

➢It will manage all activities around the diagnostic lab that increases productivity and maximize profit.

➢This access friendly software provides quick and effective services which helps the diagnostic center to increase their sales and profit.

Advantages:

1. The system allows automate diagnosis system.

2. Allows for faster service.

3. Allows increased sales and profits for diagnostic labs.

4. Easy, user friendly GUI.

5. Validation of data will be ensure only accurate valid and complete data stored in the database.

6. Easy retrieval or data will be made possible by finding techniques.

7. Report generation will help made it easy to analyze the performance

Entity-Relationship(ER) Diagram:
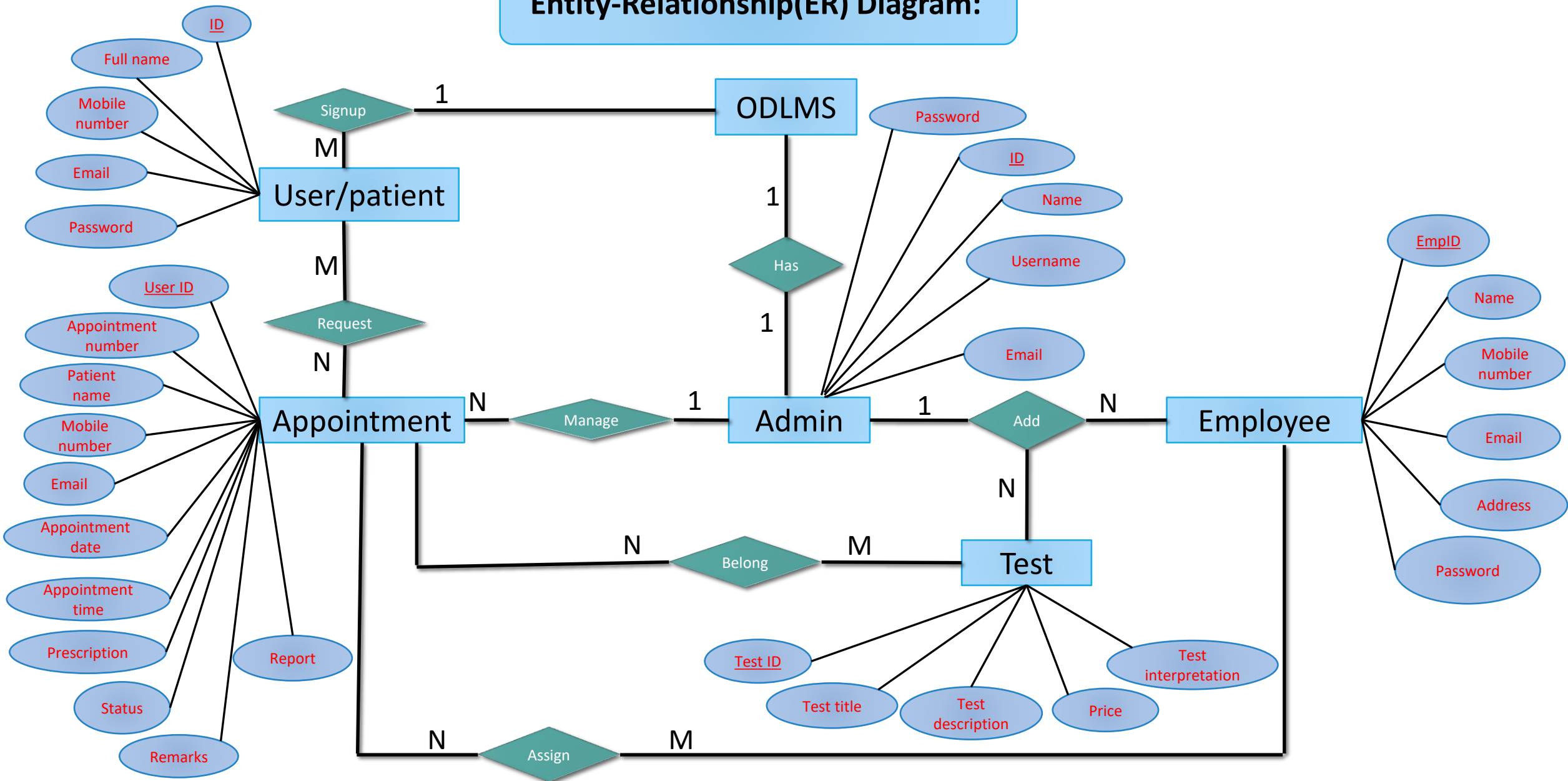
Implementation

Client Side:

Web Browser	Google Chrome or any compatible browser
Operating System	Windows or any equivalent OS

Server Side:

Web Server	APACHE
Server side Language	PHP5.6 or above version
Database Server	MYSQL
Web Browser	Google Chrome or any compatible browser
Operating System	Windows or any equivalent OS

Results/Snapshots
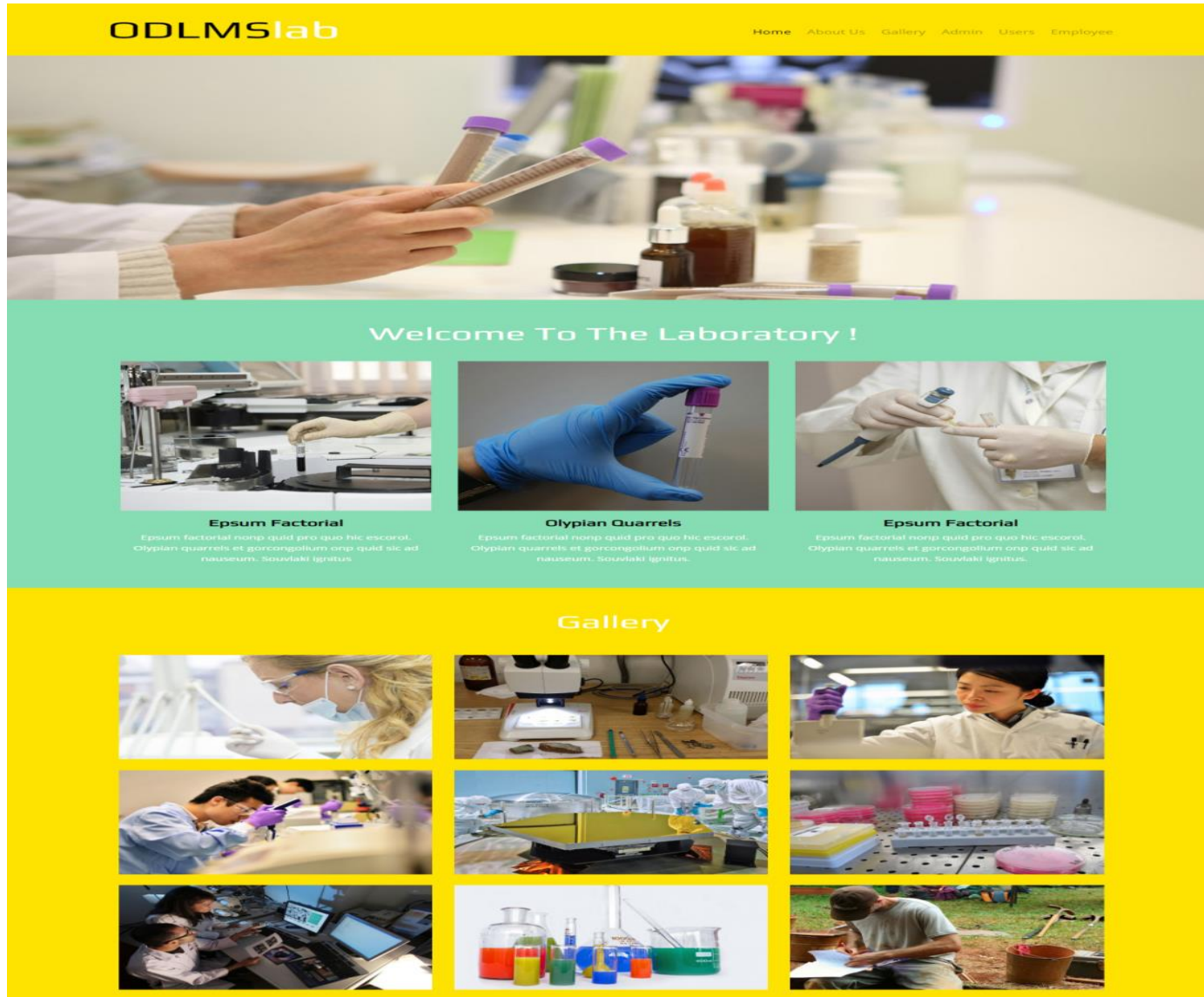
> **Home Page**
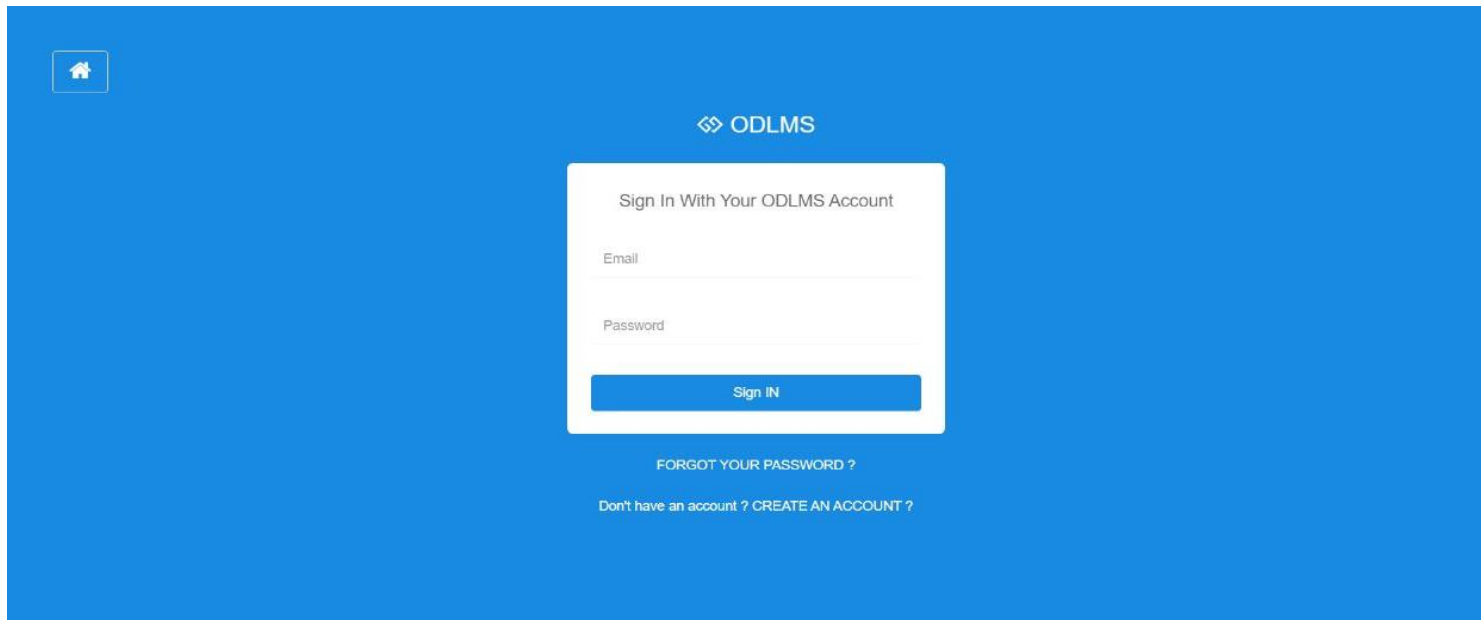
➢ **Admin Login**
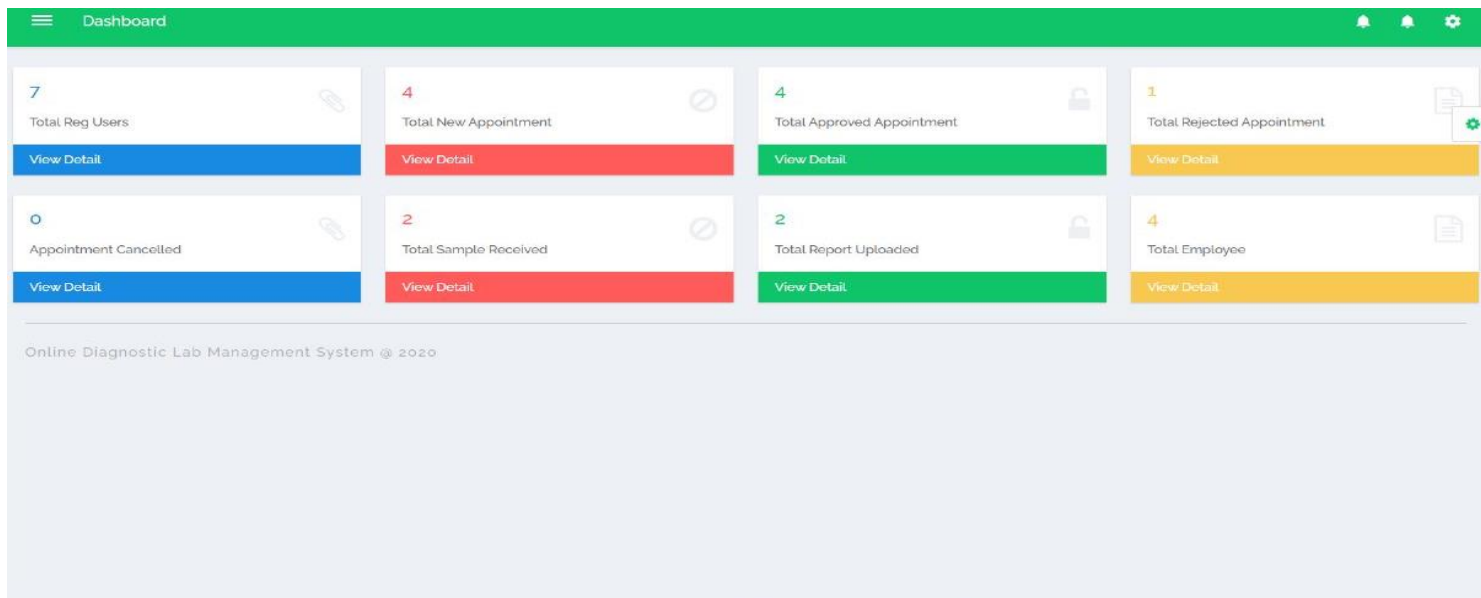
➢ **Admin Dashboard**

➢ **Employee Registration Page**

➢ **Add Test Page**
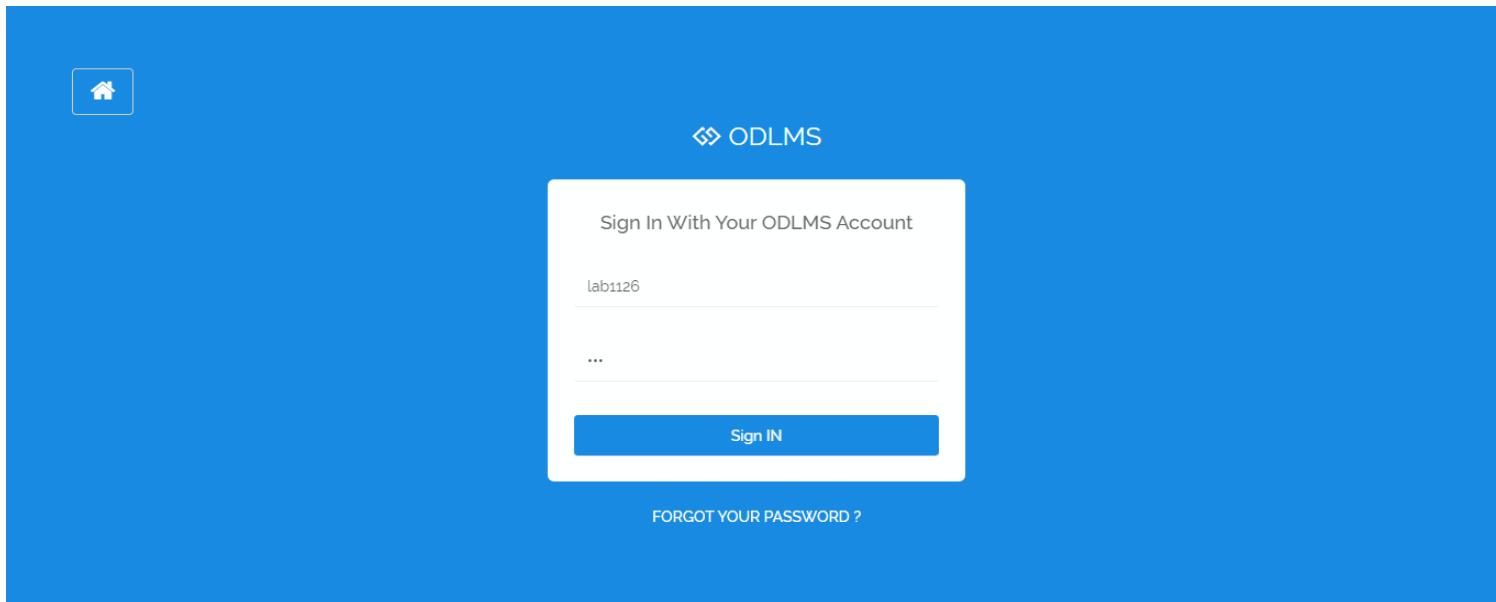
➤ **Employee Login**
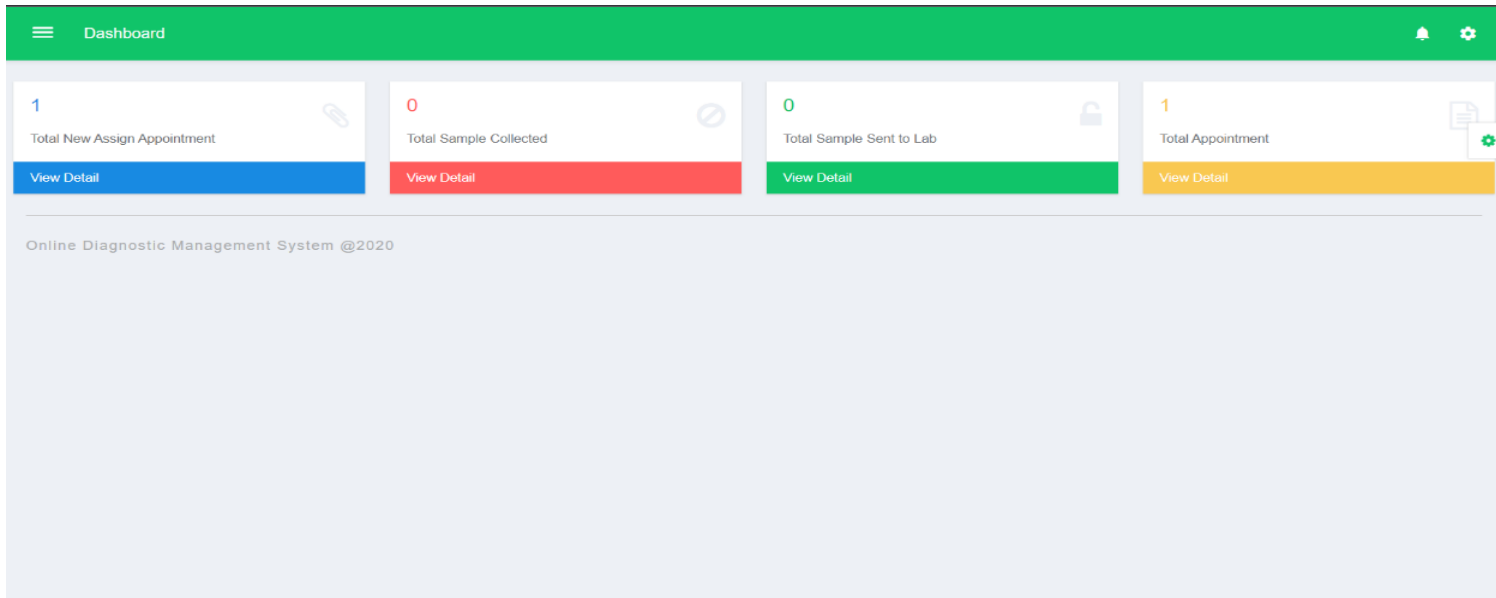
➤ **Employee Dashboard**

Appointment Number	769704440	Patient Name	darshan
Gender	Male	Date of Birth	1998-01-01
Mobile Number	987654321	Email	darsh654@gmail.com
Appointment Date	2023-01-25	Appointment Time	01:00
Assign To	lab001	Date of Birth	1998-01-01
Apply Date	2023-01-19 22:12:00	Order Final Status	Approved
Admin Remark	discount of 5%	Prescription	Download Prescription

Test Detail

S.No	Test Title	Price
1	Lipid Profile	300
Grand Total		300

Tracking History

#	Remark	Status	Time
1	discount of 5%	Approved(by Lab)	2023-01-19 22:21:59

Take Action

> **Employee View User's Appointment**

Search by Appointment No./Name/Mobile No.

Appointment No./Name/Mobile No.

Search

Result against "769704440" keyword

S.No	Appointment Number	Patient Name	Mobile Number	Email	Status	Action
1	769704440	darshan	987654321	darsh654@gmail.com	Approved	👁
S.No	Appointment Number	Patient Name	Mobile Number	Email	Status	Action

Online Diagnostic Management System @2020

> **Search for the particular Appointment**

➢ **User Sign Up**

➢ **User Login**
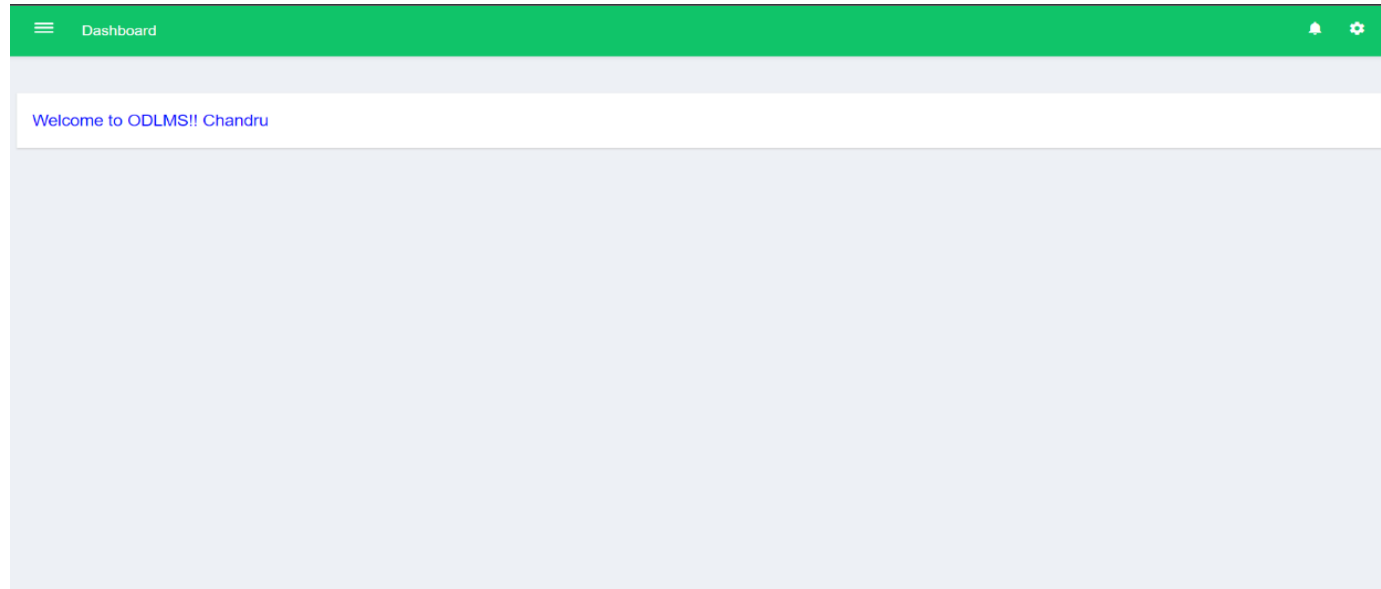
➢ **User Dashboard**

➢**User Appointment Register Page**

Appointment Details

S.No	Appointment Number	Patient Name	Mobile Number	Email	Status	Action
1	420981223	chandru	9088776654	chand123@gamil.com	Not Updated Yet	👁
2	365871321	Priya	9088776654	chand123@gamil.com	Not Updated Yet	👁
S.No	Appointment Number	Patient Name	Mobile Number	Email	Status	Action

Online Diagnostic Lab Management System @ 2020

➢ **Appointment History**

Dashboard

Appointment Details

| Appointment Number	440619315	Patient Name	Anuj kumar
Gender	Male	Date of Birth	1990-01-01
Mobile Number	1234567890	Email	shdfhdsghfg@gmail.com
Appointment Date	2020-01-25	Appointment Time	12:59
Prescription	NA	Date of Birth	1990-01-01
Apply Date	2020-01-19 10:35:42	Status	Report Uploaded
Admin Remark	Report uploaded	Updation Date	2020-01-19 10:35:42
Report	Download Report	Report Uploaded Date	2020-01-19 11:23:16

Test Detail

S.No	Test Title	Price
1	HbA1c	500
2	KFT	500
Grand Total		1000

Tracking History

#	Remark	Status	Time

➢ **Appointment Status**
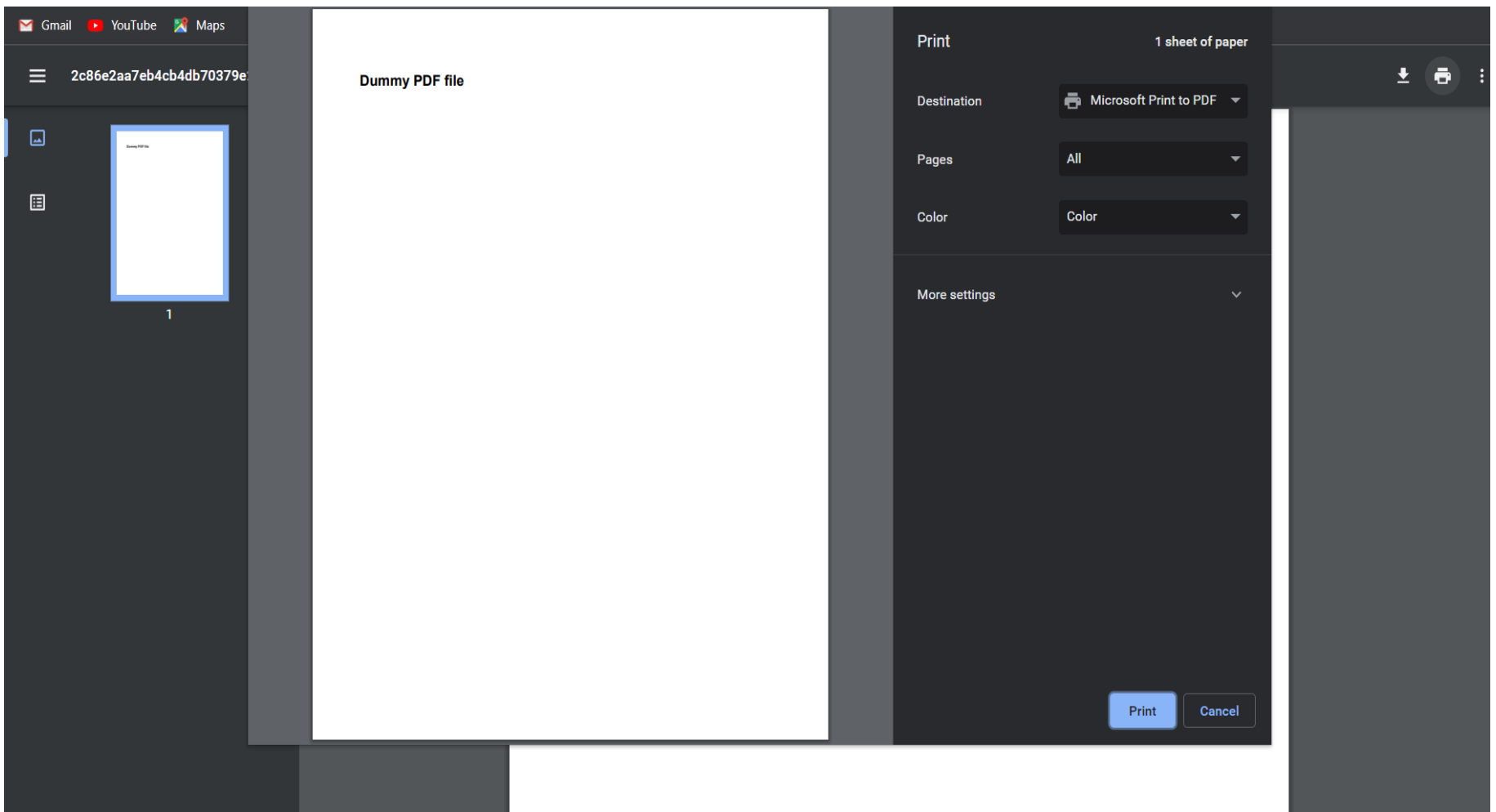
➢ **Download Report**

Conclusion and Future Enhancement:

Conclusion:

- Automation of the entire system improves the productivity.
- It provides a friendly graphical user interface which proves to be better when compared to the existing system.
- It gives appropriate access to the authorized users depending on their permissions.
- It effectively overcomes the delay in communications.
- It effectively overcomes the delay in communications.
- Updating of information becomes so easier.
- System security, data security and reliability are the striking features.
- The System has adequate scope for modification in future if it is necessary.

Future Enhancement:

The System has adequate scope for modification in future if it is necessary.

1. In future we will add the features of online payment method

2. Once appointment is confirm, diagnostic center send the technician to patient address to collect the blood sample.

References:

1. Fundamentals of Database Management System by Pearson author Navathe 7th edition,2017
2. 2. PHP Pandas by Daylee rees.
3. 3. Learn to code HTML and CSS by shay Howe.
4. 4. Software engineering by Roger S. Pressman
5. 5. Learning MySQL, HTML, JavaScript, CSS by Programming with Mosh

Any suggestions!

Thank You Listeners!