### **ABSTRACT**

The purpose of Doctor Appointment System is to automate the existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easyaccessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

Doctor Appointment System, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. That means that one need not be distracted by information that is not relevant, while being able to reach the information.

The aim is to automate its existing manual system by the help of computerized equipment's and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.

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# **Ch 1: Introduction**

#### 1.1 Introduction

This project is a web based management system for a doctor appointment. The project objective is to deliver the online shopping application into platform.

Doctor appointment is the process whereby consumers directly buy goods or services from a seller in real-time, without an intermediary service, over the Internet. It is a form of electronic commerce. This project is an attempt to provide the advantages of online shopping to customers of a real shop. It helps buying the products in the shop anywhere through internet by using an android device. Thus the customer will get the service of online shopping and home delivery from his favorite shop.

#### 1.2 Objective

The objective of the project is to make an application in android platform to purchase items in an existing shop. In order to build such an application complete web support need to be provided. A complete and efficient web application which can provide the online shopping experience is the basic objective of the project. The web application can be implemented in the form of an android application with web view.

#### 1.3 Scope and Feasibility

This system can be implemented to any shop in the locality or to multinational branded shops having retail outlet chains. The system recommends a facility to accept the orders 24\*7 and a home delivery system which can make customers happy.

If shops are providing an online portal where their customers can enjoy easy shopping from anywhere, the shops won't be losing any more customers to the trending online shops such as flipchart or eBay. Since the application is available in the Smartphone it is easily accessible and always available.

# **Ch 2: Software & Hardware Requirements**

# 2.1 Software Requirements

Technology	Tools	
Front End	HTML, CSS, JavaScript	
Back End	PHP, MySQL	
Framework	Bootstrap	
Software	XAMPP, Visual Studio Code	

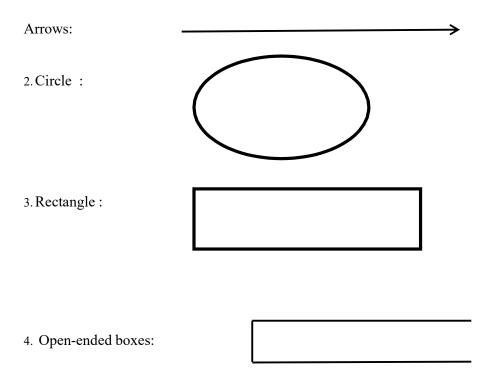
# 2.2 Hardware Requirements

RAM	2GB or above.	
Processor	Intel Dual Core or above.	
Operating System	Windows 7 or above, Ubuntu or any Linux based system.	
Hosting	Amazon AWS, Go Daddy, HostGator, Bluehostetc.	
CMS	Word Press etc.	
Domain	.com, .in etc.	
Browser	Google Chrome, Mozilla Firefox etc.	

# Ch 3: System Design

### 3.1 Data Flow Diagrams

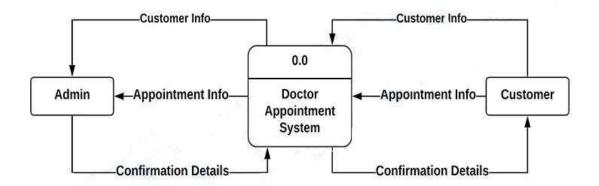
A data flow diagram is a graphical technique that depicts the information flow and transformation that are applied as a data move from input to the output source in the system.it is used to represent any software or system at any level of abstraction. To construct data flow diagram, we used:



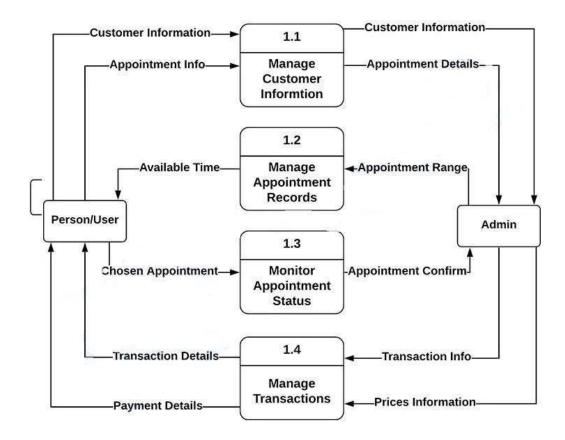
An arrow identifies data flow diagram in motion .It is a pipeline through which information flows. Circle stand for process that convert data into information. Square define a source for destination of the system data. Openended boxes represent a data/store a data at rest.

- 1. Arrows should not cross each other.
- 2. Squares, circles and files must bear name.
- 3. Decomposed data flow must be balanced.
- 4. No two data flows, square or circle can have the same name.5. Draw all data flows around the outside of the diagram.

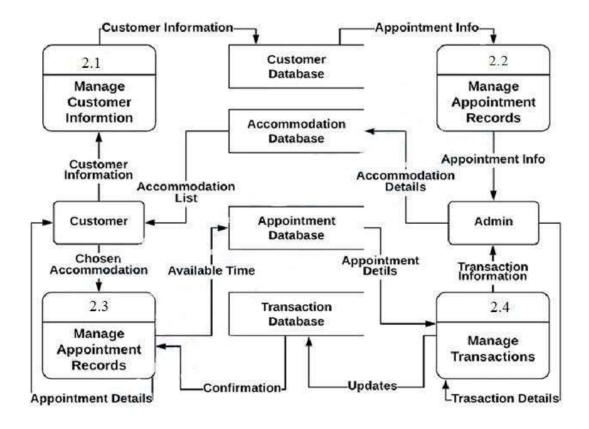
### 3.1.1 Zero Level DFD



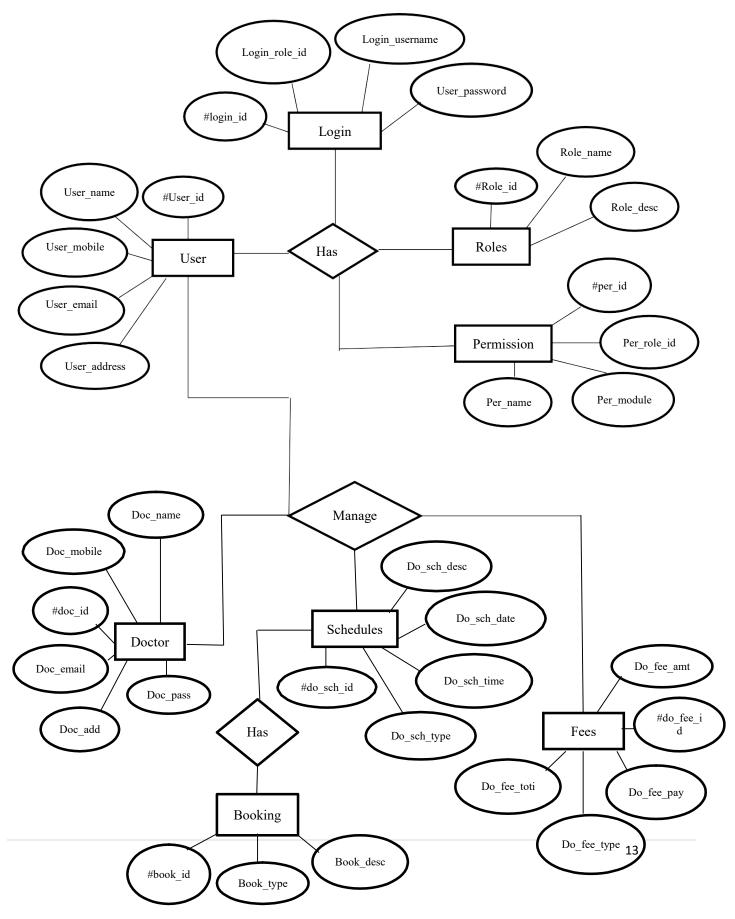
### 3.1.2 First Level DFD



### 3.1.3 Second Level DFD



# 3.3 ER Diagrams



# 3.4 Normalization

### 3.4.1 Normalization Raw Ratabase

Colunm name	Data type	Key contraints
Id	int(11)	NOT NULL
Specialization_name	varchar(40)	NULL
Doctor_id	Int(11)	NOT NULL
Specialization_Id	Int(11)	NOT NULL
Qualification_name	Varchar(100)	NULL
Institute_name	Varchar(100)	NULL
Procurement_year	Varchar(100)	NULL
First_name	Varchar(50)	NULL
Last_name	Varchar(50)	NULL
Professional_statement	Varchar(4000)	NULL
Practicing_from	Varchar(100)	NULL
Hospital_name	Varchar(100)	NULL
City	Varchar(100)	NULL
Country	Varchar(100)	NULL
Start_date	Varchar(100)	NULL
End_date	Varchar(100)	NULL
Day_of_the_weak	Varchar(100)	NULL
Is_available	Varchar(40)	NULL
Reason_of_unavailability	Varchar(100)	NULL
Is_review_anonymous	Varchar(40)	NULL
is_doctor_recommended	Varchar(40)	NULL
App_booking_channel_name	Varchar(40)	NULL

# 3.4.2 Normalisation level 1 (1NF)

# Specification

id	int(11)	NOT NULL
Specification_name	varchar(100)	NULL

# **Doctor Specification**

id	int(11)	NOT NULL
Doctor_id	int(11)	NOT NULL
Specification_id	int(11)	NOT NULL

# Qualification

id	int(11)	NOT NULL
Doctor_id	int(11)	NULL
Qualification_name	varchar(100)	NULL
Institute_name	varchar(100)	NULL
Procurement_year	Varchar(100)	NULL

### **Doctor**

id	int(11)	NULL
First_name	varchar(50)	NULL
Last_name	varchar(50)	NULL
Professional_statement	varchar(4000)	NULL
Practicing_from	varchar(100)	NNULL

# Hospital affiliation

id	int(11)	NULL
Doctor_id	Int(11)	NULL
Hospital_name	varchar(100)	NULL
City	varchar(100)	NULL
Country	varchar(100)	NULL
Start_date	varchar(100)	NULL
End_date	varchar(100)	NULL

# 3.4.3 Normalisation level 2 (2NF)

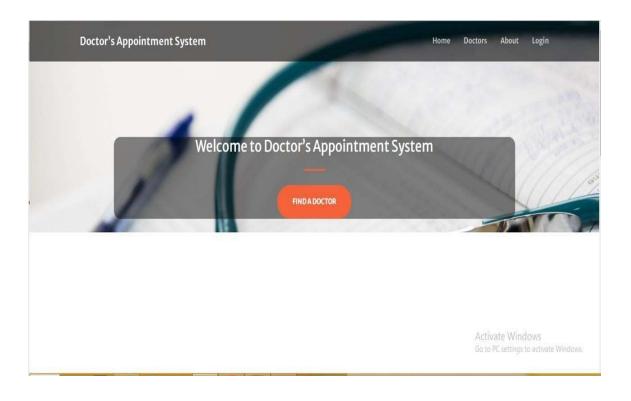
### **Client Review**

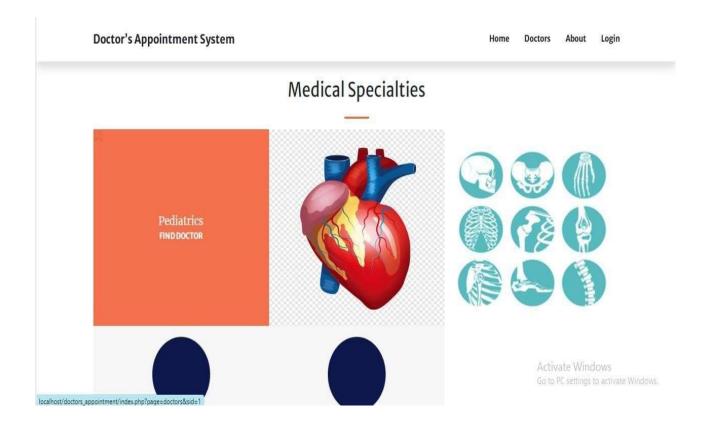
id	int(11)	NOT NULL
User_account_id	int(11)	NOT NULL
Doctor_id	int(11)	NOT NULL
Is_review_anonymous	char(50)	NULL
Wait_time_rating	int(11)	NULL
Bedside_manner_rating	int(11)	NULL
Overall_rating	int(11)	NULL

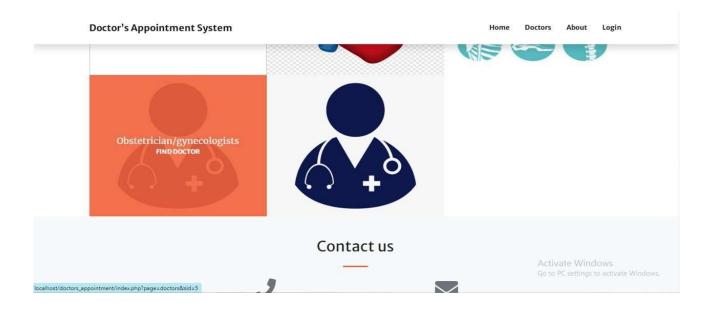
# **Client Account**

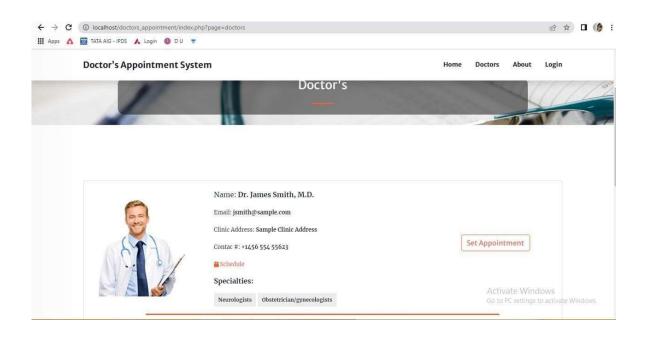
id	int(11)	NOT NULL
First_name	Varchar2(100)	NULL
Last_name	Varchar2(100)	NULL
Contact_number	int(11)	NULL
email	Varchar2(100)	NULL

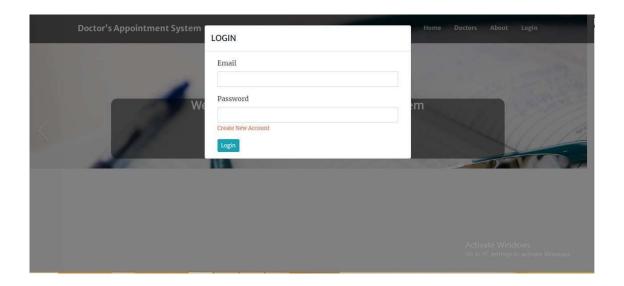
# **Chapter 4: Screenshots**

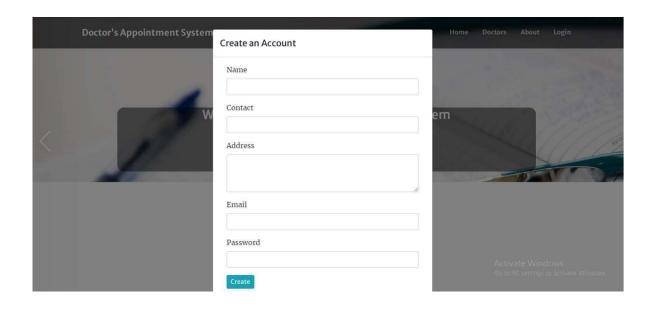


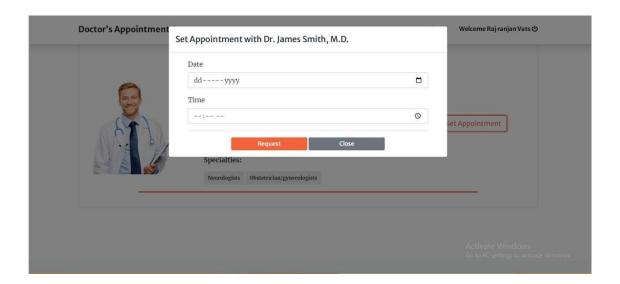


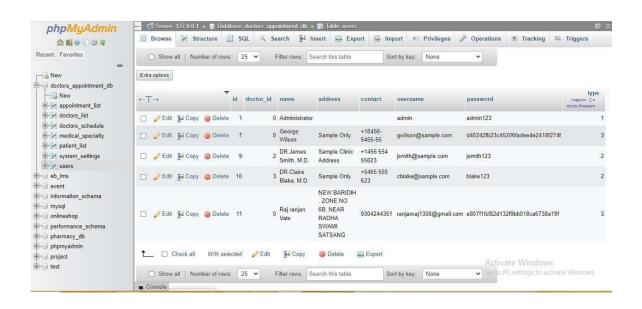


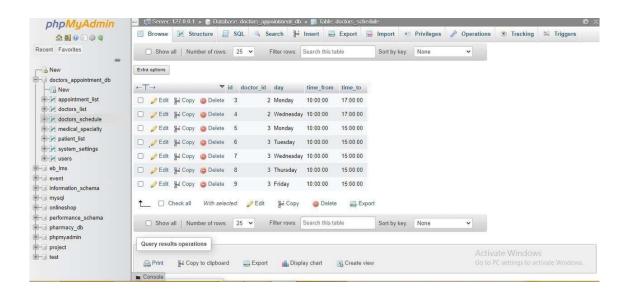


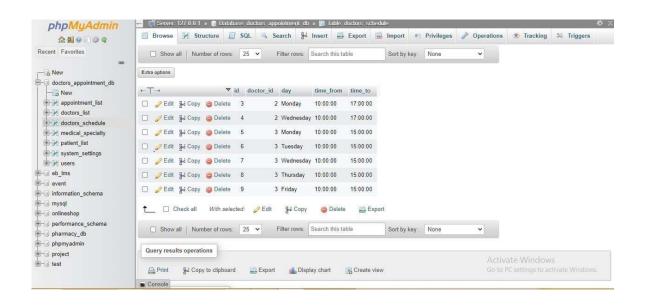


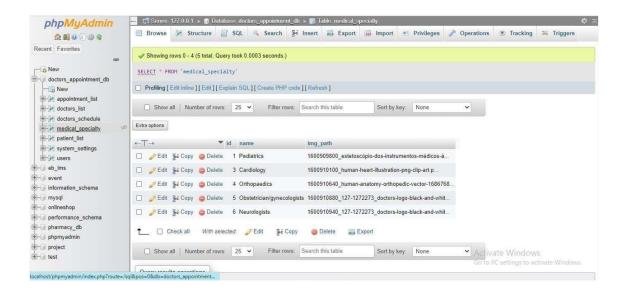












# **Chapter 5: Implementation and Testing**

### 5.1 Implementation

This activity includes programming, testing and integration of modules into a progressively more complete system. Implementation is the process of collect all the required parts and assembles them into a major product.

### 5.2 Testing

#### **5.2.1 Test Generation**

This activity generates a set of test data, which can be used to test the new system before accepting it. In the test generation phase, all the parts are come which are to be tested to ensure that system does not produce any error. If there are some errors then we remove them and further it goes for accepting.

#### 5.2.2 Software Testing

Software testing is a critical element of software quality assurance and moments the ultimate reviews of specification, design and coding. Testing presents an interesting anomaly for the software engineer.

#### Testing objectives include:

- 1. Testing is a process of executing a program with the intent of finding an error.
- 2. A good test case is one that has probability of finding an as yet undiscovered error.
- 3. A successful test is one that uncovers an undiscovered error.

#### **Testing Principles:**

- 1. All tests should be traceable to end user requirements.
- 2. Test should be planned long before testing begins.
- 3. Testing should begin on a small scale and progress towards testing in large.
- 4. Exhaustive testing is not possible.
- 5. To be most effective testing should be conducted by an independent third.

#### **5.3 Code**

### about.php

```
<!-- Masthead-->
    <header class="masthead">
       <div class="container h-100">
         <div class="row h-100 align-items-center justify-content-center text-center">
           <div class="col-lg-10 align-self-end mb-4" style="background: #0000002e;">
              <h1 class="text-uppercase text-white font-weight-bold">About Us</h1>
              <hr class="divider my-4" />
           </div>
         </div>
       </div>
    </header>
  <section class="page-section">
    <div class="container">
  <?php echo html entity decode($ SESSION['setting about content']) ?>
    </div>
    </section>
```

### doctor.php

```
<!-- Masthead-->
    <header class="masthead">
       <div class="container h-100">
         <div class="row h-100 align-items-center justify-content-center text-center">
           <div class="col-lg-10 align-self-end mb-4" style="background: #0000002e;">
              <h1 class="text-uppercase text-white font-weight-bold">About Us</h1>
              <hr class="divider my-4" />
           </div>
         </div>
       </div>
    </header>
  <section class="page-section">
    <div class="container">
  <?php echo html entity decode($ SESSION['setting about content']) ?>
    </div>
    </section>
```

### home.php

```
<?php
include 'admin/db connect.php';
<style>
#portfolio .img-fluid{
  width:100%
</style>
     <header class="masthead">
       <div class="container h-100">
          <div class="row h-100 align-items-center justify-content-center text-center">
            <div class="col-lg-10 align-self-end mb-4 page-title">
              <h3 class="text-white">Welcome to <?php echo $ SESSION['setting name'];
?></h3>
              <hr class="divider my-4" />
              <a class="btn btn-primary btn-xl js-scroll-trigger"
href="index.php?page=doctors">Find a Doctor</a>
            </div>
         </div>
       </div>
     </header>
       <section class="page-section" id="menu">
  </section>
  <div id="portfolio" class="container">
       <div class="container-fluid p-0">
         <div class="row">
            <div class="col-lg-12 text-center">
            <h2 class="mb-4">Medical Specialties</h2>
            <hr class="divider">
            </div>
         </div>
          <div class="row no-gutters">
            $cats = $conn->query("SELECT * FROM medical specialty order by id asc");
                   while($row=$cats->fetch assoc()):
            ?>
            <div class="col-lg-4 col-sm-6">
              <a class="portfolio-box" href="index.php?page=doctors&sid=<?php echo
$row['id'] ?>">
                 <img class="img-fluid" src="assets/img/<?php echo $row['img_path'] ?>"
alt=""/>
```

### set\_appointment.php

```
<?php
include ('admin/db connect.php')
?>
<style>
       #uni modal .modal-footer{
              display: none
</style>
<div class="container-fluid">
       <div class="col-lg-12">
              <div id="msg"></div>
              <form action="" id="manage-appointment">
                      <input type="hidden" name="doctor id" value="<?php echo</pre>
$ GET['id'] ?>">
                      <div class="form-group">
                             <label for="" class="control-label">Date</label>
                             <input type="date" value="" name="date" class="form-control"</pre>
required>
                      </div>
                     <div class="form-group">
                             <label for="" class="control-label">Time</label>
                             <input type="time" value="" name="time" class="form-
control" required>
                     </div>
                      <hr>>
                      <div class="col-md-12 text-center">
```

```
<button class="btn-primary btn btn-sm col-md-
4">Request</button>
                             <button class="btn btn-secondary btn-sm col-md-4"</pre>
type="button" data-dismiss="modal" id="">Close</button>
                      </div>
              </form>
       </div>
</div>
<script>
       $("#manage-appointment").submit(function(e){
              e.preventDefault()
              start load()
              $.ajax({
                      url: 'admin/ajax.php?action=set appointment',
                     method: 'POST',
                     data:$(this).serialize(),
                     success:function(resp){
                             resp = JSON.parse(resp)
                             if(resp.status == 1){
                                    alert toast("Request submitted successfully");
                                    end load();
                                    $('.modal').modal("hide");
                             }else{
                                    $('#msg').html('<div class="alert alert-
danger">'+resp.msg+'</div>')
                                    end load();
              })
</script>
signup.php
<?php session start() ?>
<div class="container-fluid">
       <form action="" id="signup-frm">
              <div class="form-group">
                      <label for="" class="control-label">Name</label>
                      <input type="text" name="name" required="" class="form-control">
              </div>
              <div class="form-group">
                      <label for="" class="control-label">Contact</label>
                      <input type="text" name="contact" required="" class="form-control">
              </div>
              <div class="form-group">
```

```
<label for="" class="control-label">Address</label>
                      <textarea cols="30" rows="3" name="address" required=""
class="form-control"></textarea>
               </div>
               <div class="form-group">
                      <label for="" class="control-label">Email</label>
                      <input type="email" name="email" required="" class="form-control">
               </div>
               <div class="form-group">
                      <label for="" class="control-label">Password</label>
                      <input type="password" name="password" required="" class="form-</pre>
control">
               </div>
               <button class="button btn btn-info btn-sm">Create</button>
       </form>
</div>
<style>
       #uni modal .modal-footer{
               display:none;
</style>
<script>
       $('#signup-frm').submit(function(e){
               e.preventDefault()
               $('#signup-frm button[type="submit"]').attr('disabled',true).html('Saving...');
               if($(this).find('.alert-danger').length > 0)
                      $(this).find('.alert-danger').remove();
               $.ajax({
                      url: 'admin/ajax.php?action=signup',
                      method:'POST',
                      data:$(this).serialize(),
                      error:err=>{
                              console.log(err)
               $('#signup-frm button[type="submit"]').removeAttr('disabled').html('Create');
                      success:function(resp){
                              if(resp == 1){
                                     location.reload();
                              }else{
                                     $('#signup-frm').prepend('<div class="alert alert-
danger">Email already exist.</div>')
                                     $('#signup-frm
button[type="submit"]').removeAttr('disabled').html('Create');
               })
       })
```

```
</script>
```

### view\_doctor\_schedule.php

```
<style>
     #uni modal .modal-footer{
           display: none;
</style>
<?php
     include'admin/db connect.php';
     $qry = $conn->query("SELECT * FROM doctors schedule where
doctor_id=".$_GET['id']);
<div class="container-fluid">
     <div class="col-lg-12">
           <div class="row">
                 <thead>
                             Day
                                  Schedule
                             </thead>
                       <?php while($row=$qry->fetch assoc()): ?>
                             <?php echo $row['day']
?>
                                  <?php echo date("h:i
A",strtotime($row['time_from'])).' - '.date("h:i A",strtotime($row['time_to'])) ?>
                             <?php endwhile; ?>
                       </div>
     <hr>>
           <div class="row">
                 <button class="btn btn-secondary btn-sm col-md-4 offset-md-4"</pre>
type="button" data-dismiss="modal" id="">Close</button>
           </div>
     </div>
</div>
<script>
     $('#edit').click(function(){
           uni modal("Edit "+$('#uni modal.modal-
title').html(),'manage doctor schedule.php?did=<?php echo $ GET['id'] ?>','mid-large');
     })</script>
```

# **Chapter 6: Conclusion**

### **6.1 Future Scope**

The project entitled **Doctor Appointment system** 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, usage of responsive templates, designing of android applications, and management of database using MySQL. The entire system is secured. Also 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 shops or branded shops selling various kinds of products by simple modifications. There is a scope for further development in our project to a great extent. A number of features can be added to this system in future like providing moderator more control over products so that each moderator can maintain their own products. Another feature we wished to implement was providing classes for customers so that different offers can be given to each class. System may keep track of history of purchases of each customer and provide suggestions based on their history. These features could have implemented unless the time did not limited us.