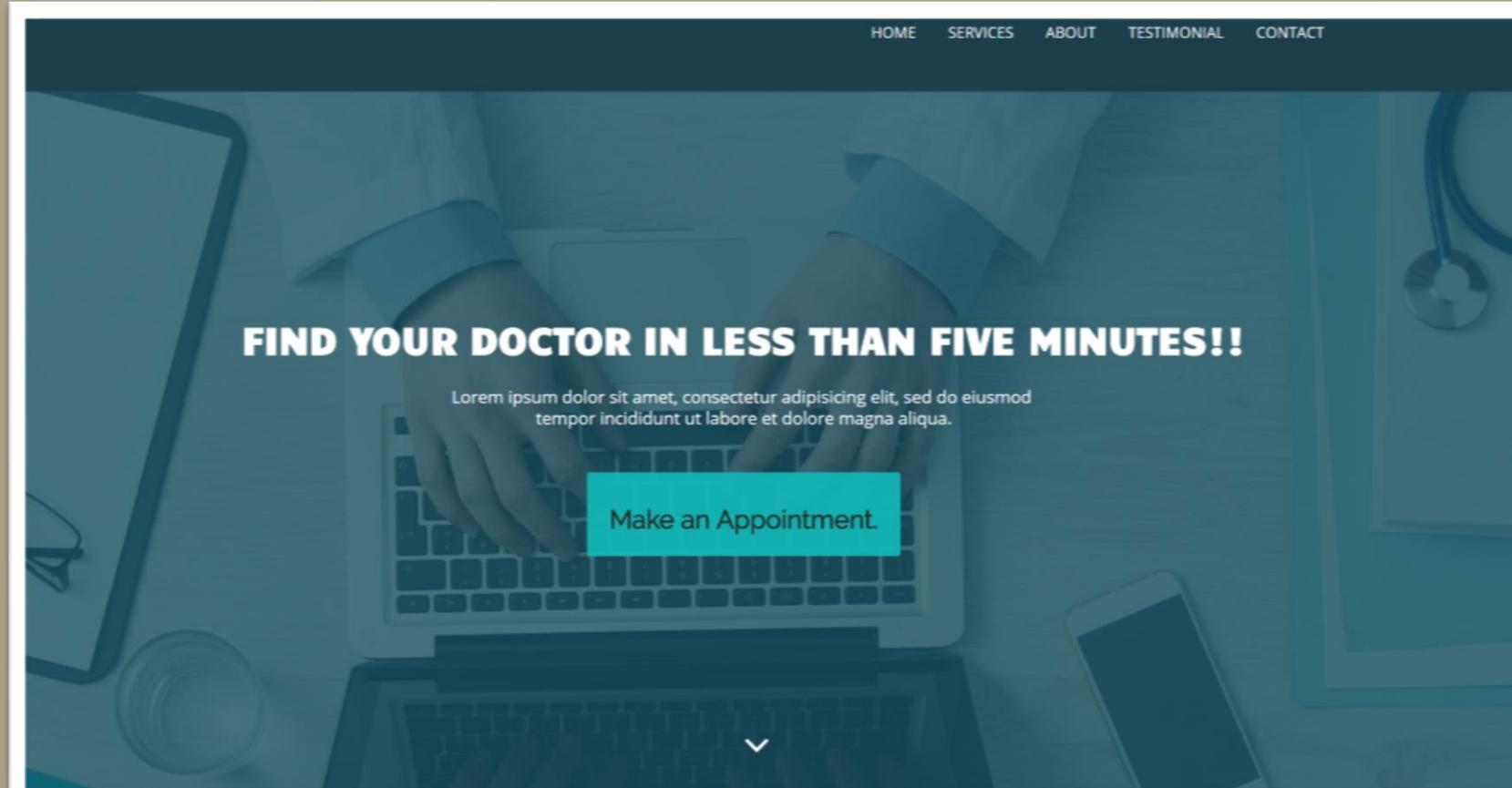


Medical Clinic

clinic.ipd10.com



OUR SERVICE

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24 Hour Support

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Medical Counseling

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Medical clinic is a fast way for interaction between patients, clinic doctors and staff, by ability to show doctor's available time, book appointment online, ...

By:

Vajiheh Seyedzadeh

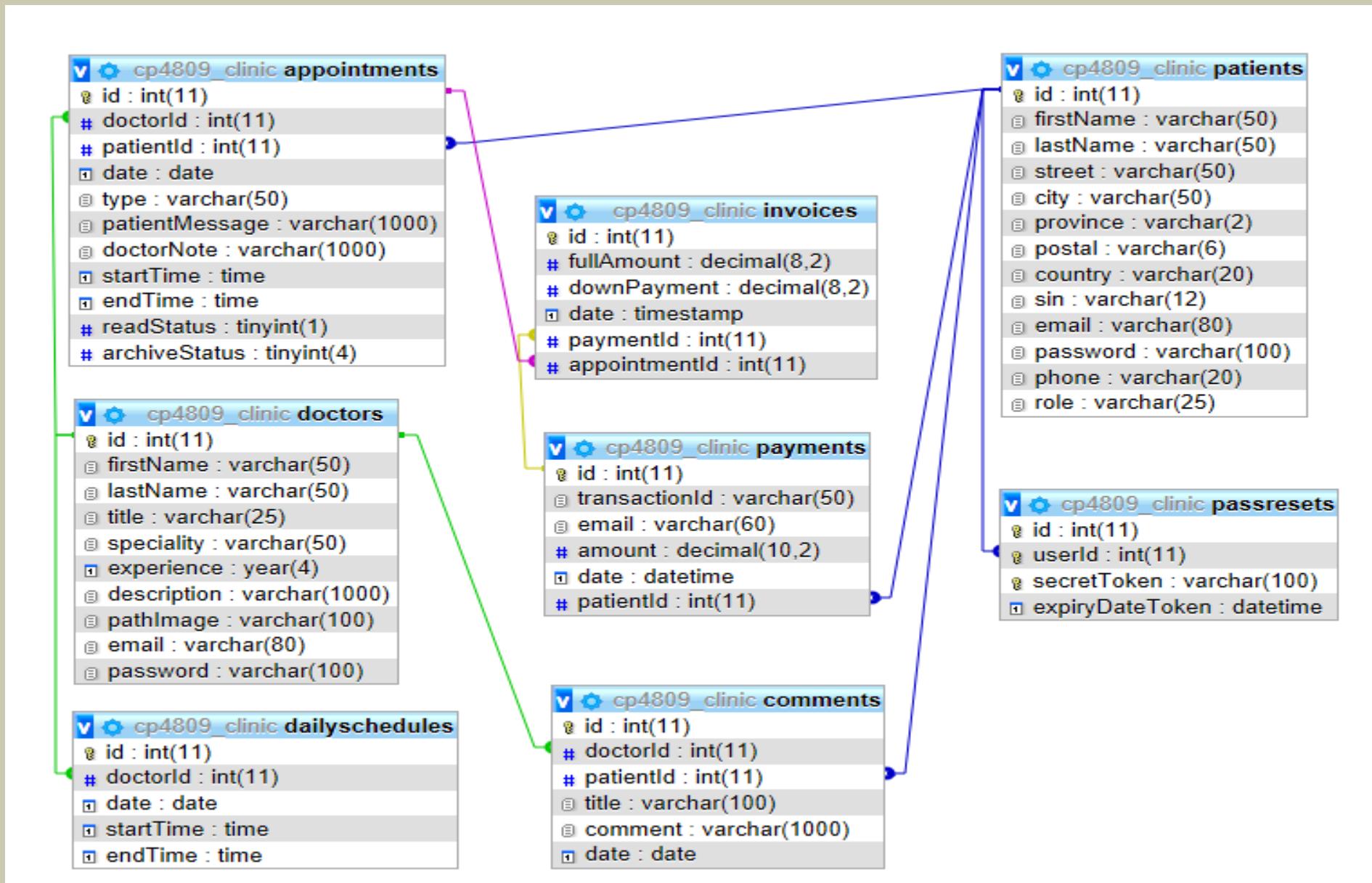
Winoto Janputra

Fall - 2017

Background

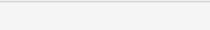
- Website to show clinic services, doctors, ...
- See doctor's available time and Make an appointment
- Ability to define and modify doctor's schedule by themselves
- Ability to see list of appointments in calendar view by doctors
- Show notification for new / cancel appointments
- Online Pre-Payment – Using pay-pal
- Add note to patient's profile by doctors
- **Goal: Make a fast way for interaction between patients, clinic's doctors and staffs**

DB Structure



Search doctors and See available times

Speciality:  Cardiologist 





MayRoxas

Description: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras finibus enim ut nulla finibus, sed malesuada sem ornare. Curabitur vitae nisi a massa porta finibus volutpat sit amet est. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Vivamus semper eu quam ut vulputate. Nullam euismod, ligula eu fringilla bibendum, massa nulla cursus diam, non sagittis neque tortor quis enim. Sed sed ipsum tincidunt ex feugiat accumsan et tempus felis. Mauris at urna nullam.

available Time

Sun 19 Nov	Mon 20 Nov	Tue 21 Nov	Wed 22 Nov	Thu 23 Nov	Fri 24 Nov
08:00	08:00	08:00	08:00	08:00	08:00
08:30	08:30	08:30	08:30	08:30	08:30
09:00	09:00	09:00	09:00	09:00	09:00
09:30	09:30	09:30	09:30	09:30	09:30
10:00	10:00	10:00	10:00	10:00	10:00
10:30	10:30	10:30	10:30	10:30	10:30

Doctor's Schedule

You're logged in as mehrshad shams

Month: 11-2017 Michael Wilmott ▾

save

Sun 1	Mon 2	Tue 3	Wed 4	Thu 5	Fri 6	Sat 7
Available <input checked="" type="checkbox"/>	Available <input checked="" type="checkbox"/>	Available <input type="checkbox"/>	Available <input checked="" type="checkbox"/>	Available <input checked="" type="checkbox"/>	Available <input checked="" type="checkbox"/>	Available <input type="checkbox"/>
Start 8:0 ▾						
End 20: ▾						
Sun 8	Mon 9	Tue 10	Wed 11	Thu 12	Fri 13	Sat 14
Available <input type="checkbox"/>	Available <input type="checkbox"/>	Available <input checked="" type="checkbox"/>	Available <input checked="" type="checkbox"/>	Available <input checked="" type="checkbox"/>	Available <input checked="" type="checkbox"/>	Available <input checked="" type="checkbox"/>
Start 8:0 ▾						
End 20: ▾						
Sun 15	Mon 16	Tue 17	Wed 18	Thu 19	Fri 20	Sat 21

- Ability to define and modify schedule for different month

Patient's Profile

You're logged in as mehrshad shams

HOME

SERVICES

ABOUT

TESTIMONIAL

CONTACT

My Account

Make Booking

My Bookings

Dr.Name	Date	Time	Action
Alexa Brunner	2017-11-13	15:00:00	Cancel
May Roxas	2017-11-20	08:30:00	Cancel
Bill Calhoon	2017-12-03	10:00:00	Cancel

About Us

Praesent convallis tortor et enim laoreet, vel consectetur purus latoque penatibus et dis parturient.

Quick Links

- Home
- Service
- Appointment

Follow us



- See list of bookings
- Ability to cancel appointments
- Ability to make new appointment

Challenges and solution:

- Make relation between doctor's schedule and appointment and show doctor's available times

Month: 11-2017 Michael Wilmott ▾

save

Sun 1	Mon 2	Tue 3	Wed 4	Thu 5	Fri 6	Sat 7
Available <input checked="" type="checkbox"/>	Available <input checked="" type="checkbox"/>	Available <input type="checkbox"/>	Available <input checked="" type="checkbox"/>	Available <input checked="" type="checkbox"/>	Available <input checked="" type="checkbox"/>	Available <input type="checkbox"/>
Start 8:00 ▾						
End 20:00 ▾						
Sun 8	Mon 9	Tue 10	Wed 11	Thu 12	Fri 13	Sat 14
Available <input type="checkbox"/>	Available <input type="checkbox"/>	Available <input checked="" type="checkbox"/>	Available <input checked="" type="checkbox"/>	Available <input checked="" type="checkbox"/>	Available <input checked="" type="checkbox"/>	Available <input checked="" type="checkbox"/>
Start 8:00 ▾						

```
<form action="/myschedule/{{ date }}/{{ doctorId }}" class="form-horizontal" method="Post">
    <input type="hidden" name="date" value="{{ date }}>
    <input type="hidden" name="id" value="{{ doctorId }}>
    <input type="submit" value="save">
    {% for day in range(0, datelist-1) %}
        {% if day == 0 or day == 7 or day == 14 or day == 21 or day == 28 %}
            <div class="row">
                {% endif %}

                <div class="col-sm-1">
                    <div class="input-group">
                        <span class="input-group-addon"></span>
                        <label class="form-control form-horizontal">{{ firstday[day]} {{ day+1 }}</label>
                        <label class="form-check-label form-horizontal">Available
                            <input class="form-control form-check-input" name="doctorAvailable{{ day+1 }}" id="doctorA
<div class="form-inline">
    <label for="startTime" class="form-horizontal">Start
    <select class="form-control" name ="doctorStart{{ day+1 }}" id="doctorStart{{ day+1 }}">
        <option value="8:00" selected>8:00</option>
        <option value="9:00">9:00</option>
```

```
$app->get('/ajax/myschedule/:date/:id', function($date, $id) use ($app, $log){
    $arrayDate = explode('-', $date);
    $month = $arrayDate[0];
    $year = $arrayDate[1];
    $number = date('t', mktime(0, 0, 0, $month, 1, $year));
    $arrayDay = array();
    for ($i = 1; $i <= $number; $i++) {
        $firstDay= date('D', strtotime($year . '-' . $month . '-' . $i));
        array_push($arrayDay, $firstDay);
    }

    $app->render('admin/ajaxdoctor_schedule.html.twig', array(
        "datelist" =>$number,
        "firstday" =>$arrayDay,
        "doctorId" =>$id,
        "date" =>$date
    ));
});
```

- Make relation between doctor's schedule and appointment and show doctor's available times

```
$app->get('/avtime/:id/:start', function ($id, $start) use ($app) {
    $data = array();
    $format = 'Y-m-d';
    $start_date_obj = DateTime::createFromFormat($format, $start);
    $start_date_obj_cp = DateTime::createFromFormat($format, $start);

    $startDate = $start_date_obj->format($format);
    $endDate = $start_date_obj->add(new DateInterval("P6D"))->format($format);

    $timeRow = DB::query("SELECT * FROM dailyschedules WHERE doctorId = %i and date >= %s and date < %s",
        $id, $startDate, $endDate);
    $timeApp = DB::query("SELECT * FROM appointments WHERE doctorId = %i and date >= %s and date < %s "
        . "order by date, startTime",
        $id, $startDate, $endDate);

    for ($i = 0; $i < 6; $i++) {
        if($i > 0){
            $currentDate = $start_date_obj_cp->add(new DateInterval("P1D"));
        } else {
            $currentDate = $start_date_obj_cp;
        }
        $currentDateStr = $currentDate->format($format);
        $value = new DoctorSchedule();
        $date = new Date();
        $date->setMonth($currentDate->format('M'));
        $date->setDay($currentDate->format('d'));
        $date->setDow($currentDate->format('D'));

        $date->setDateStr($currentDateStr);

        $value->setDate($date);
        $times = array();
        $appointments = array();
    }
});
```

```
var getDate = function (start) {
    var url = '/avtime/' + doctorId + '/' + start;
    $.ajax({
        url: url,
        success: function (data) {
            showData(JSON.parse(data));
        }
    });
};
```

```
var hasAppointment = appointments.indexOf(timeStr) >= 0;

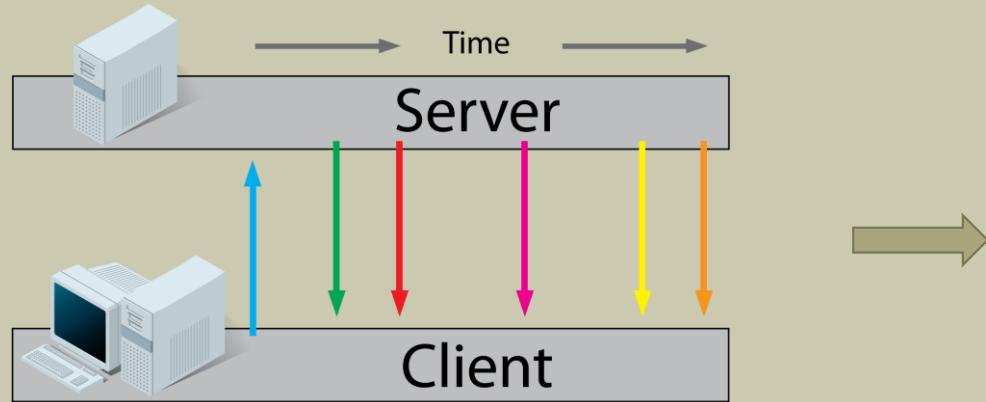
var $li = $('- <button ' + (hasAppointment ? 'disabled' : '') + ' data-time="' + dateTime +
    '" type="button" class="btn-time inverted btn btn-info btn-lg" \n\
    onclick="getappointment(this)">' + timeStr + '</button></li>');
$ul.append($li);
timeStr = (j.toString() + ":" + "30").padStart(5, '0');

hasAppointment = appointments.indexOf(timeStr) >= 0;

dateTime = dateStr + ' ' + timeStr;
$li = $('- <button ' + (hasAppointment ? 'disabled' : '') + ' style="background-color:#E8E8E8;" : ''')
    + ' data-time="' + dateTime +
    '" type="button" class="btn-time inverted btn btn-info btn-lg" \n\
    onclick="getappointment(this)">' + timeStr + '</button></li>');
$ul.append($li);

```

- Show doctor's appointment in calendar view and show notification for new and canceled appointment
 - Fullcalendar.js
 - Server-Sent Event



```

function spawnNotification(theBody,theIcon,theTitle) {
var options = {
  body: "you have " + theBody,
  icon: theIcon
}
n = new Notification(theTitle,options);
location.reload();
}

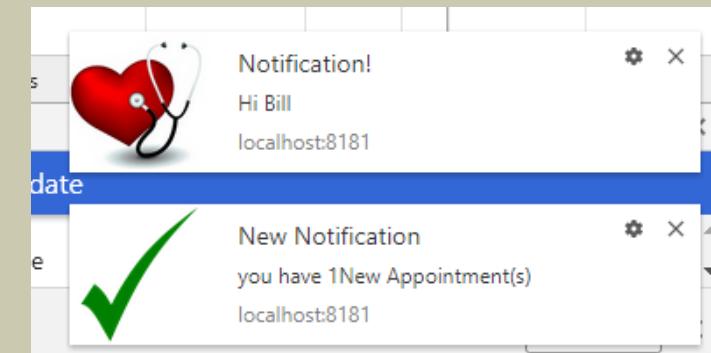
if(typeof(!EventSource) !== "undefined") {
  var source = new EventSource("/calx");
  source.onmessage = function(event) {
//var msg = $.parseJSON(event.data);
spawnNotification(event.data,'/images/ok.png','New Notification');
n.close.bind(n);
}
}

```

```

$app->get('/calx', function() use ($app, $log) {
if(!($SESSION['staffSession'])){
    $app->render('access_denied.html.twig');
    return;
}
header('Content-Type: text/event-stream');
header('Cache-Control: no-cache');
while (true){
    $cal = DB::query('SELECT * FROM appointments WHERE (readStatus = 0 OR readStatus = 2) AND
if(empty($cal)){
    echo "retry: 10000\n";
    ob_flush();
    flush();
}
$count = sizeof($cal);
if ($count > 0) {
    foreach ($cal as $c) {
        if ($c['readStatus'] == 0) {
            echo "event: message\n";
            echo "data: " . $count . "New Appointment(s)" . "\n\n";
        }
    }
}
}
}

```



	collect?v...	200	gif	analytics.js:2	109 B	29 ms
	calx	200	eventsouce	Other	564 B	30.11 s
	calx	200	eventsouce	Other	564 B	30.10 s
	calx	200	eventsouce	Other	353 B	Pending

What we learned:

- PHP using MeekroDB framework, Slim and twig template
- Ajax and jquery
- Paypal API
- WebSocket, Server-Sent Event

Future Works:

- Make access for patients to add comment for doctors

Thank you for your time!