

Hello Students,

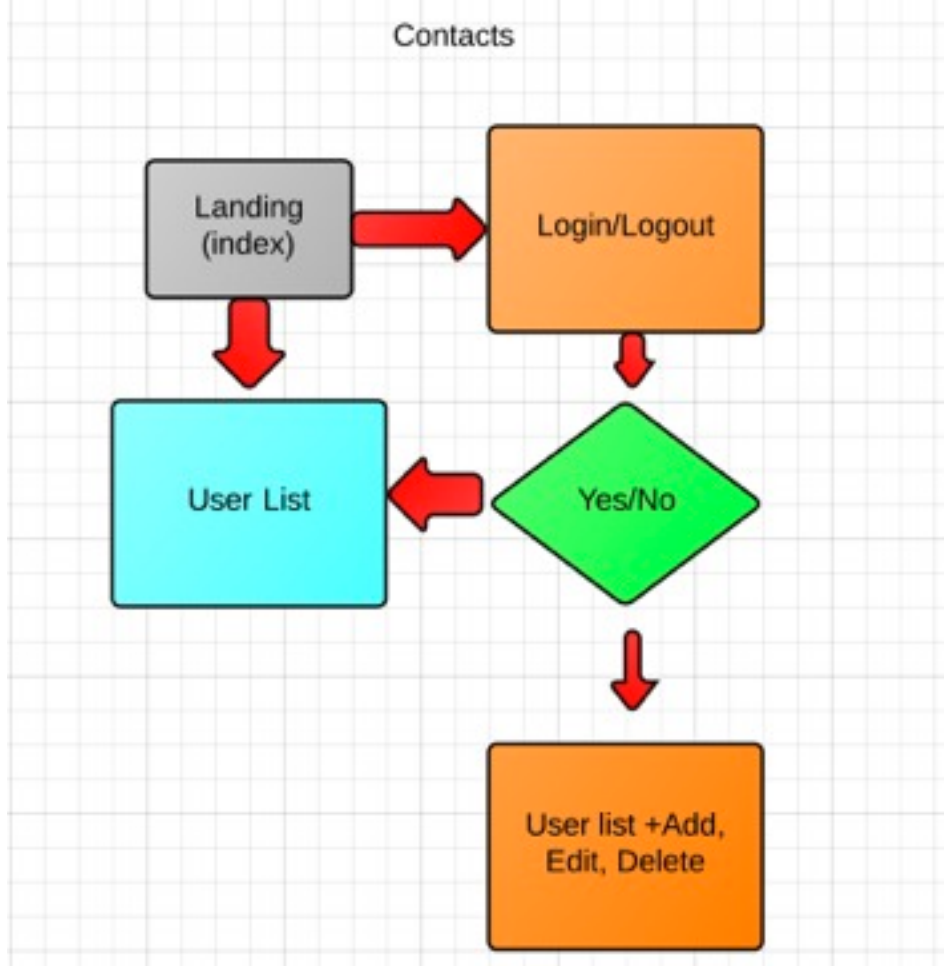
In this document you will find a sample application from a flow chart to READ DATA.
Use this document as a sample and guide to complete your assignments.

Assignments covered:

- 1 - Flow Chart
- 2 - Database Design
- 3 - MVC Setup
- 4 - Read Data Sample

1- Flow Chart

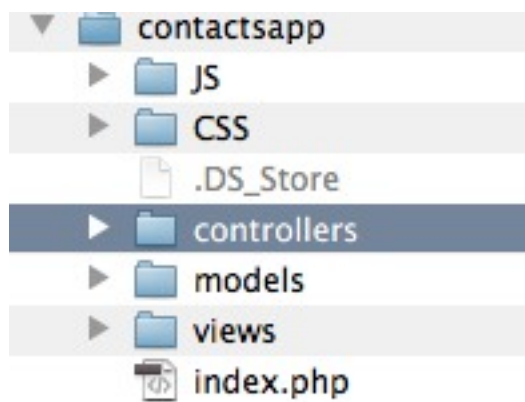
I would like to create an online contacts manager application.



2- Database Design

TABLES	Field	Type	Length	Unsigned	Zerofill	Binary	Allow Null	Key	Default	Extra
user_details	id	int	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PR	NULL	auto_incr...
	email	varchar	250	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		NULL	None
	phone	varchar	250	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		NULL	None
	address	varchar	250	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		NULL	None
user_details	id	int	11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PR	NULL	auto_increment
	un	varchar	250	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		NULL	None
	pass	varchar	250	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		NULL	None
	first	varchar	100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		NULL	None
	last	varchar	100	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		NULL	None

3 - MVC Setup

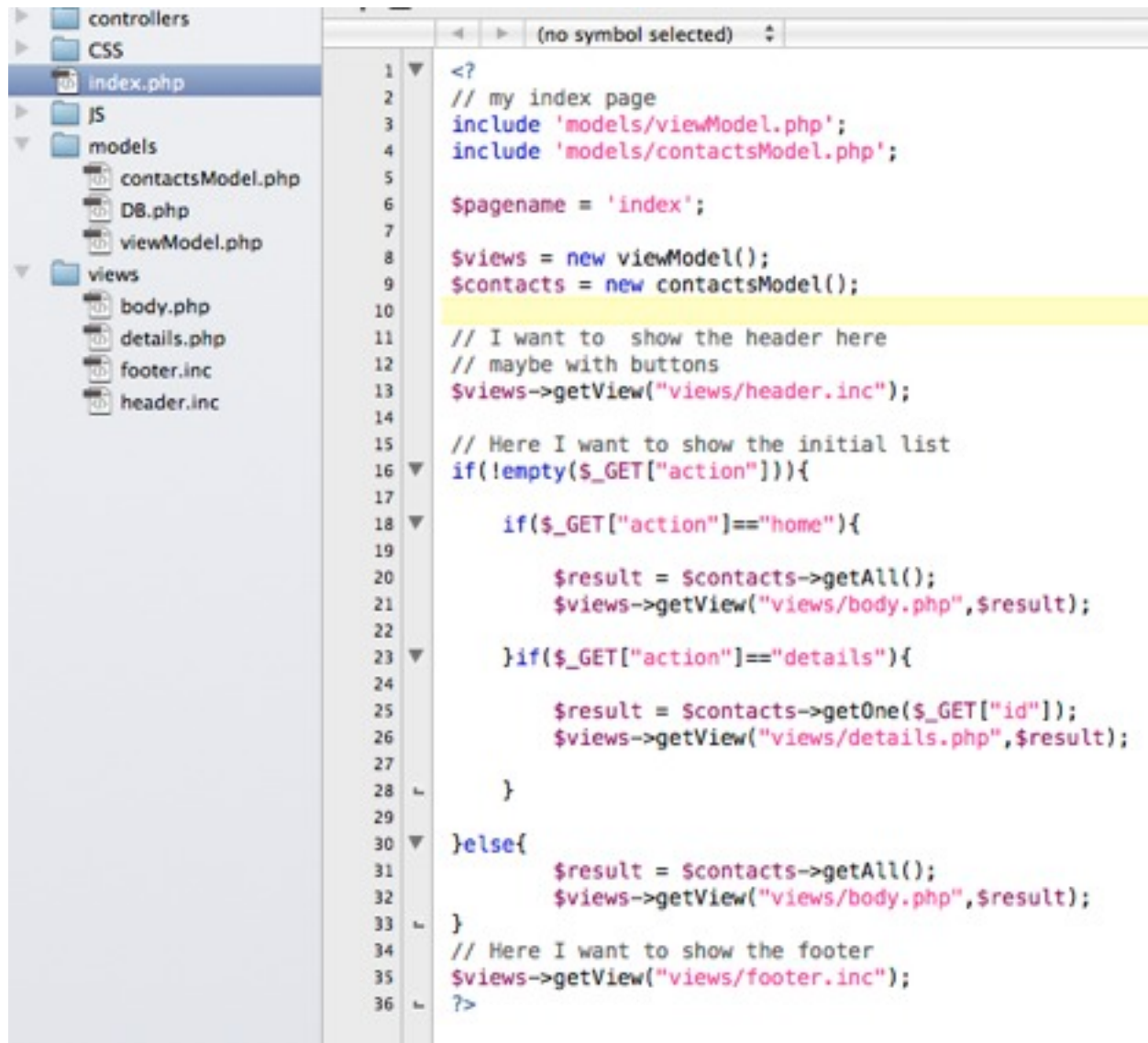


4 - Read Data

I would like to make a connection to the database and get the list of all the users. Once I get the list I would like to click on their names and get more details about them.

I am going to use my index.php as a navigation to start things. (Application starter)

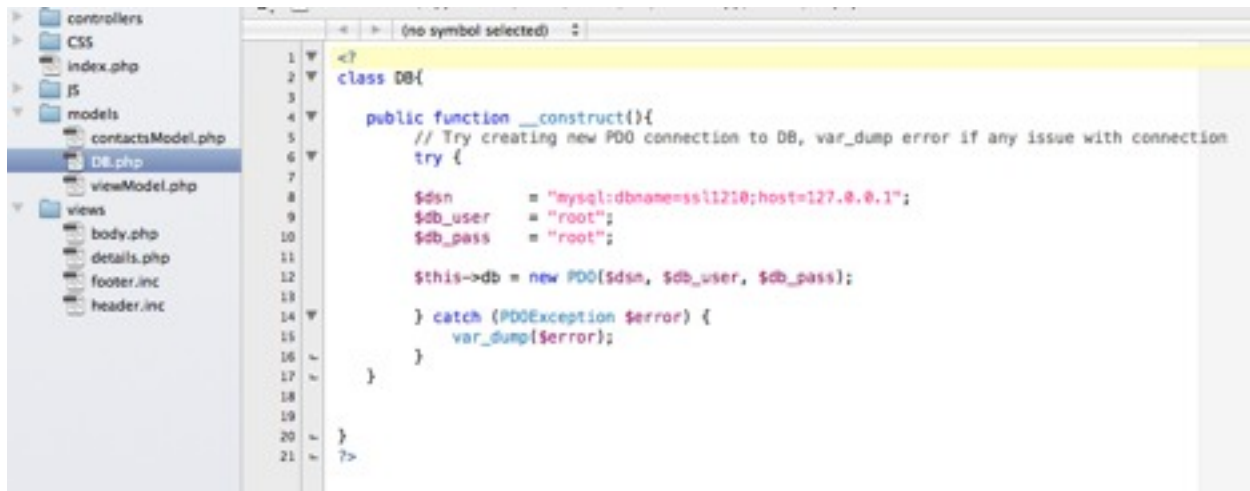
I will create footer and header includes now and create models to get the data.



```
1 <?
2 // my index page
3 include 'models/viewModel.php';
4 include 'models/contactsModel.php';
5
6 $pagename = 'index';
7
8 $views = new viewModel();
9 $contacts = new contactsModel();
10
11 // I want to show the header here
12 // maybe with buttons
13 $views->getView("views/header.inc");
14
15 // Here I want to show the initial list
16 if(!empty($_GET["action"])){
17     if($_GET["action"]=="home"){
18         $result = $contacts->getAll();
19         $views->getView("views/body.php",$result);
20     }
21     if($_GET["action"]=="details"){
22         $result = $contacts->getOne($_GET["id"]);
23         $views->getView("views/details.php",$result);
24     }
25 }
26
27 }else{
28     $result = $contacts->getAll();
29     $views->getView("views/body.php",$result);
30 }
31
32 // Here I want to show the footer
33 $views->getView("views/footer.inc");
34
35 ?>
```

Now I am ready to create models I need a view model to bring pages to this controllers, I need a contactsModel (CRUD) and bunch of views (footer, header,body,details).

Let's start with the models



```
1 <?
2 class DB{
3
4     public function __construct(){
5         // Try creating new PDO connection to DB, var_dump error if any issue with connection
6         try {
7
8             $dsn      = "mysql:dbname=ss11210;host=127.0.0.1";
9             $db_user   = "root";
10            $db_pass    = "root";
11
12            $this->db = new PDO($dsn, $db_user, $db_pass);
13
14        } catch (PDOException $error) {
15            var_dump($error);
16        }
17    }
18
19
20 }
21 ?>
```

models/DB.php

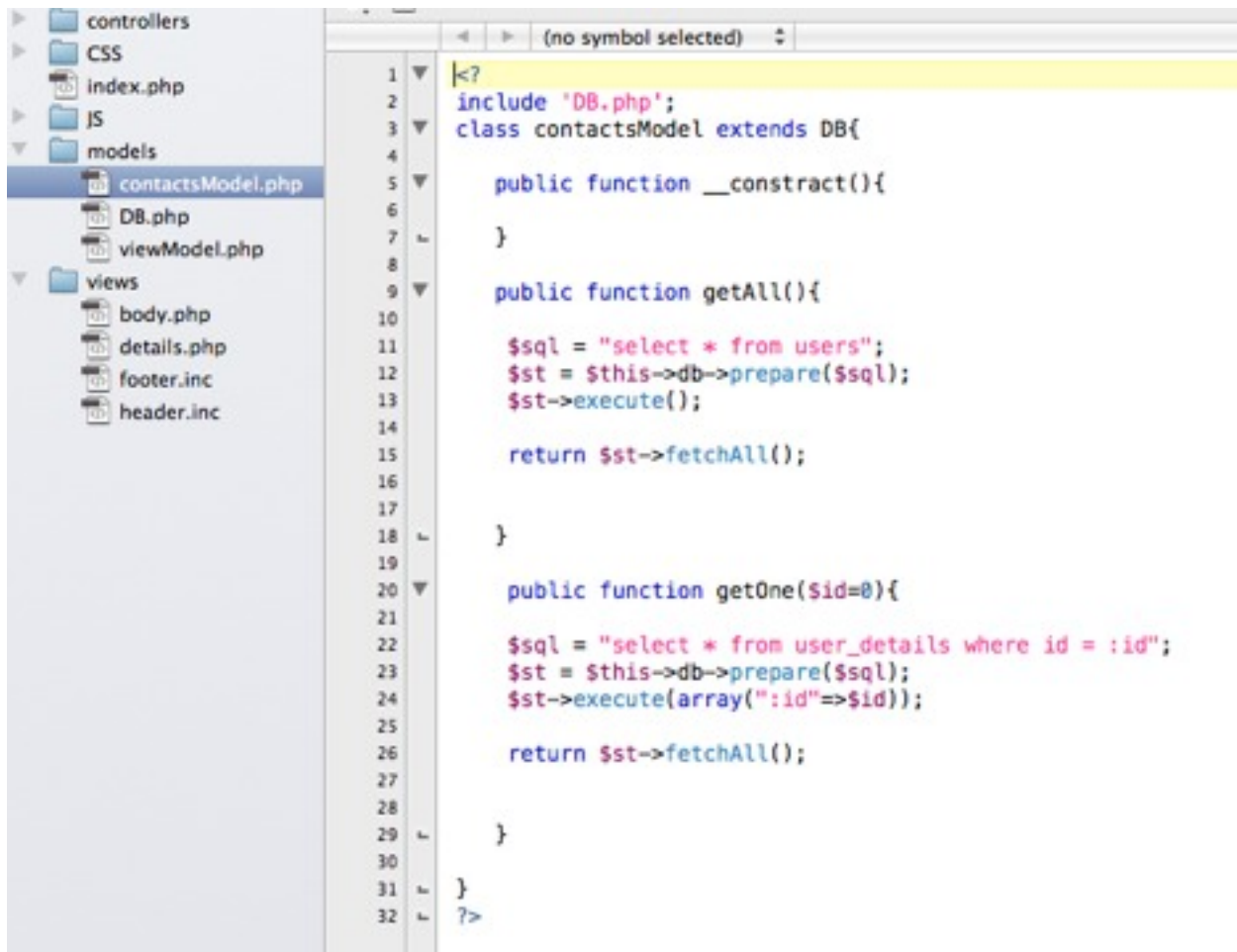
Now I have a DB class containing my DB connection so that I can use this anytime I need to interact with the DB.



```
1 <?
2 class viewModel{
3
4     public function __construct(){
5     }
6
7
8     public function getView($pagename='', $data=array()){
9
10        include $pagename;
11
12    }
13
14
15 }
16 ?>
```

models/viewModel.php

My view model to include pages.

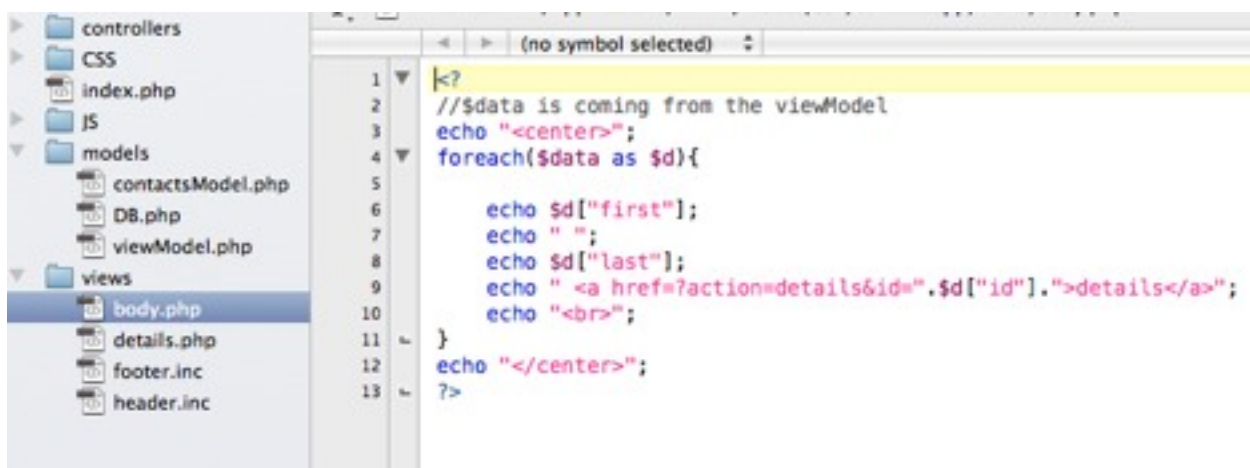


The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with folders for controllers, CSS, JS, and models. The models folder is expanded, showing contactsModel.php, DB.php, and viewModel.php. The views folder is also expanded, showing body.php, details.php, footer.inc, and header.inc. The code editor shows the contents of contactsModel.php, which is a PHP class extending a DB class. The class has two methods: __construct() and getAll(). The getAll() method queries a database for all users and returns the results. The class also has a getOne() method that queries for a specific user by ID.

```
1 <?
2 include 'DB.php';
3 class contactsModel extends DB{
4
5     public function __construct(){
6
7     }
8
9     public function getAll(){
10
11         $sql = "select * from users";
12         $st = $this->db->prepare($sql);
13         $st->execute();
14
15         return $st->fetchAll();
16
17     }
18
19     public function getOne($id=0){
20
21         $sql = "select * from user_details where id = :id";
22         $st = $this->db->prepare($sql);
23         $st->execute(array(":id"=>$id));
24
25         return $st->fetchAll();
26
27     }
28
29 }
30
31 }
32 ?>
```

models/contactsModel.php

My contacts model, which will get longer when I start building my CRUD.

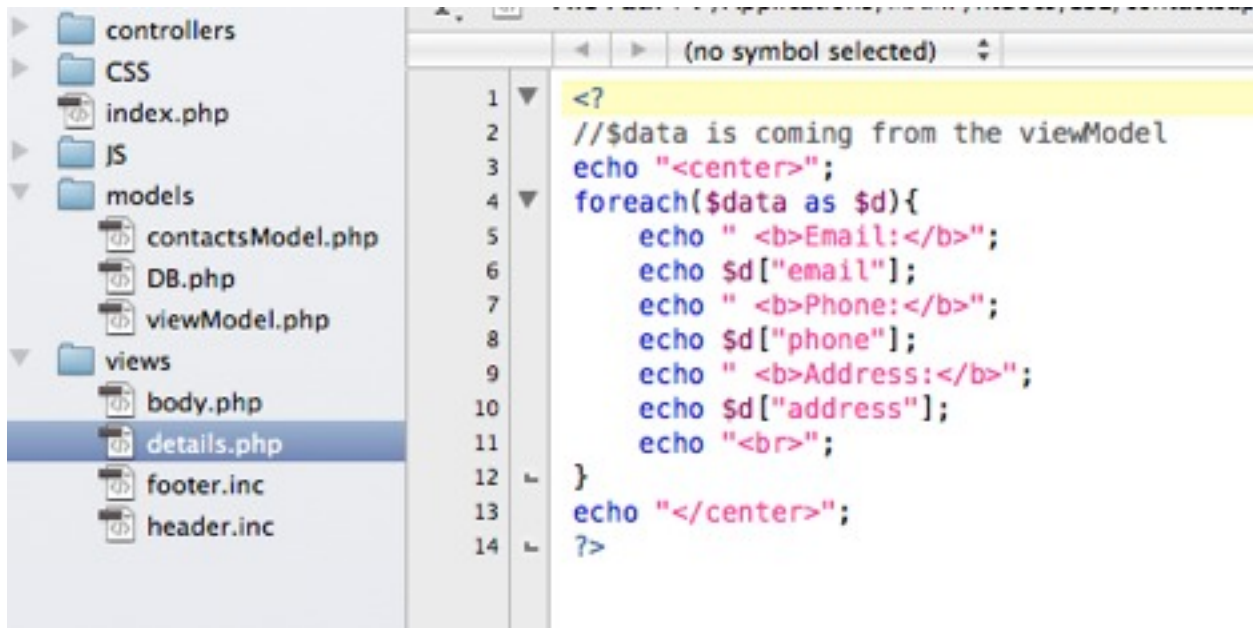


The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer shows the same project structure as the previous screenshot, but with body.php selected in the views folder. The code editor shows the contents of body.php, which is a PHP script that displays the results of a database query. It uses a foreach loop to iterate over the results and echo out the first and last names of each user, along with a link to the details page. The link is generated using the user's ID and the action=details&id= parameter.

```
1 <?
2 //$data is coming from the viewModel
3 echo "<center>";
4 foreach($data as $d){
5
6     echo $d["first"];
7     echo " ";
8     echo $d["last"];
9     echo " <a href=?action=details&id=".$d["id"].">details</a>";
10    echo "<br>";
11 }
12 echo "</center>";
13 ?>
```

/views/body.php

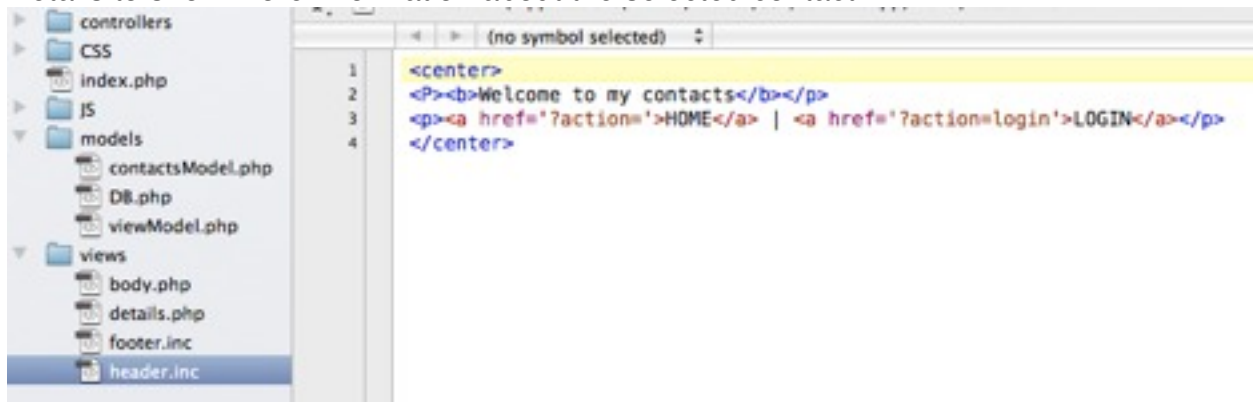
Body page to get the results and display them. I am using the id to be used on the details page. I will send this URL parameter to controller and the results to details.



```
1 <?
2 // $data is coming from the viewModel
3 echo "<center>";
4 foreach($data as $d){
5     echo " <b>Email:</b>";
6     echo $d["email"];
7     echo " <b>Phone:</b>";
8     echo $d["phone"];
9     echo " <b>Address:</b>";
10    echo $d["address"];
11    echo "<br>";
12 }
13 echo "</center>";
14 ?>
```

/views/details.php

Details to show more information about the selected contact.



```
1 <center>
2 <p><b>Welcome to my contacts</b></p>
3 <p><a href='?action='>HOME</a> | <a href='?action=login'>LOGIN</a></p>
4 </center>
```



```
1 <center>
2 <p><b>Copyright 2013</b></p>
3 <p><a href='?action='>HOME</a><a href='?action=login'>LOGIN</a></p>
4 </center>
```

Finally my 2 last views.

If everything is setup correctly I would see results like



Welcome to my contacts

[HOME](#) | [LOGIN](#)

joe last [details](#)
mike last [details](#)

Copyright 2013

[HOME](#)[LOGIN](#)



Welcome to my contacts

[HOME](#) | [LOGIN](#)

Email:joe@gmail.com **Phone:**4075222222 **Address:**123 joe circle orlando fl 32817

Copyright 2013

[HOME](#)[LOGIN](#)