

Lecture 3 OverView

- Day2/Lab2 Questions
- Review Student Videos
- Todays Topic (**Models**)
- Lecture



Day 1 Topics

1. Course Introduction
2. Software Installation
3. Apache & PHP Configuration
4. ColdFusion Server Configuration
5. Editor Configuration
6. Repo configuration SSLX
7. Static vs. Dynamic Content
8. Server vs. Client Scripting
9. **Views**

Day 2 Topics

1. Arguments
2. Basic Debugging (Vardump)
3. URL & Form Data
4. Validation
5. Security & Paranoia

Day 3 Topics

1. Queries / Unit testing
2. **Model** Classes

Day 4 Topics

1. Main **Controller** Classes
2. Web Application Data Flow
3. Pretty URLs

Day 5 Topics

1. Hashing and Salting
2. Scope
3. Cookies & Sessions

Day 6 Topics

1. Image Manipulation
2. CAPTCHA

Day 7 Topics

1. XML
2. JSON

Day 8 Topics

Guest Lecture

Day 9 Topics

Student Lectures

Day 10 Topics

Practical



LOGO

Header

PRODUCTS | REGISTER | LOGIN | ADMIN | XML

Add new product

1. Shoes Delete | Edit
2. Shirts Delete | Edit
3. Pants Delete | Edit

FOOTER



Today's Topics

- Designing a model class with a connection string
- Database Connection in PHP with PDO
- Database Connection in CF with Server Admin







```
home.cfm x body.cfm x viewModel.cfc x productModel.cfc x addform.html x
Code Split Design Live View Live Code Title:
1 <cfset views = createObject("component", "../models/viewModel")>
2 <cfset prmodel = createObject("component", "../models/productModel")>
3
4 <cfset views.getView("../views/header.cfm")>
5
6     <cfif isDefined("url.action")>
7
8         <cfelseif url.action is "addform">
9
10             <cfset views.getView("../views/addform.html")>
11
12             <cfelseif url.action is "addpr">
13
14                 <cfset prmodel.addProduct(form.pname, form.pdesc)>
15
16             </cfif>
17
18         <cfelse>
19
20 </cfif>
```





```
home.cfm × body.cfm × viewModel.cfc × productModel.cfc × addform.html ×
Code Split Design Live View Live Code Title:
1 <cfcomponent>
2     <cffunction name="getView" access="public" returntype="void">
3         <cfargument name="pagename" type="any" required="yes">
4         <cfargument name="parameters" type="any" required="no">
5
6         <cfinclude template="#pagename#">
7         |
8     </cffunction>
9 </cfcomponent>
```




```
home.cfm x body.cfm x viewModel.cfc x productModel.cfc x addform.html x
Code Split Design Live View Live Code Title:
1 <cfcomponent>
2
3     <cffunction name="addProduct" access="public" returntype="void">
4         <cfargument name="pname" type="any" required="yes">
5         <cfargument name="pdesc" type="any" required="yes">
6
7         <cfquery name="insertprs" datasource="ssl1206">
8             insert into products (product_name, product_desc)
9                 values
10                (<cfqueryparam value="#pname#">,<cfqueryparam value="#pdesc#">)
11
12        </cfquery>
13
14    </cffunction>
15
16 </cfcomponent>
```



The screenshot shows a web development IDE with a tab bar at the top containing five tabs: 'home.cfm', 'body.cfm', 'viewModel.cfc', 'productModel.cfc', and 'addform.html'. The 'addform.html' tab is active. Below the tab bar is a toolbar with buttons for 'Code' (selected), 'Split', 'Design', 'Live View', and 'Live Code'. To the right of the toolbar is a 'Title:' field containing the text 'form'. The main code editor area displays the following HTML code:

```
1 <form action="?action=addpr" method="post">
2
3     Product Name:
4     <input type="text" name="pname" /><br />
5     Product Desc:
6     <input type="text" name="pdesc" /><br />
7
8     <input type="submit" value="add" />
9
10 </form>
11
12 |
```

On the left side of the code editor is a vertical toolbar with icons for file operations, navigation, and development tools.





index.php × body.php × viewModel.php × productModel.php × updateform.html ×

Source Code viewModel.php productModel.php

```
1  <html> ...
12 <?
13 include 'models/viewModel.php';
14 include 'models/productModel.php';
15
16 $view = new viewModel();
17 $prmodel = new productModel();
18
19 $view->getView("views/header.php");
20
21 if(!empty($_GET["action"])){
22
23     if ($_GET["action"]=="updateform"){
24         $product = $prmodel->getProduct($_GET["prid"]);
25         $view->getView("views/updateform.html",$product);
26
27     }else if ($_GET["action"]=="updatepr"){
28
29         $prmodel->updateProduct($_POST["pid"],$_POST["pname"],$_POST["pdesc"]);
30
31         $products = $prmodel->getProducts();
32         $view->getView("views/body.php",$products);
33
34     }
35 }else{
36
37     $products = $prmodel->getProducts();
38     $view->getView("views/body.php",$products);
39
40 }
```



```
index.php × body.php × viewModel.php × productModel.php × updateform.html ×
1  <?
2  // this is the body page
3  // inside views because this is a view
4
5  foreach($paramaters as $par){
6      echo "<br>";
7      echo $par["product_name"]."<br>";
8      echo $par["product_id"]. "<br>";
9      echo $par["product_desc"]."<br>";
10     echo " <a href='?action=delete'> delete</a>";
11     echo " <a href='?action=updateform&prid=".$par["product_id"]."'> update</a>";
12     /*
13     ?>
14     <a href="?action=update&prid=".<?=$par["product_id"]?>">Update</a>
15     <?
16     */
17     echo "<br>-----<br>";
18 }
19
20 ?>
```




```
index.php × body.php × viewModel.php × productModel.php × updateform.html ×
1  <?
2  class viewModel{
3
4
5      public function getView($pagename='', $paramaters=array()){
6          // in here all the parameters are visible to the loaded page
7          include $pagename;
8
9      }
10
11 }
12 ?>
```




```
index.php × body.php × viewModel.php × productModel.php × updateform.html ×  
1 <?  
2 // this is the product model product CRUD stuff here  
3 class productModel{  
4  
5     public function getProducts(){  
6  
7         $db = new PDO("mysql:host=localhost;dbname=SSL1206","root","root");  
8  
9         $sql = " select * from products order by product_id ASC";  
10  
11         $st = $db->prepare($sql);  
12  
13         $st->execute();  
14  
15         $result = $st->fetchAll();  
16  
17  
18         return $result;  
19     }  
20
```



```
index.php × body.php × viewModel.php × productModel.php × updateform.html ×
1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1" [
2 <html xmlns="http://www.w3.org/1999/xhtml">
3 <head>
4 <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
5 <title>form</title>
6 </head>
7
8 <body>
9 <? foreach($paramaters as $par){ ?>
10 <form action="?action=updatepr" method="post">
11
12     Product id:
13     <input type="text" name="pid" readonly="readonly" value='<?=$par["product_id"]?' />
14     Product Name:
15     <input type="text" name="pname" value='<?=$par["product_name"]?' /><br />
16     Product Desc:
17     <input type="text" name="pdesc" value='<?=$par["product_desc"]?' /><br />
18
19
20     <input type="submit" value="update" />
21
22 </form>
23 <? } ?>
24 </body>
25 </html>
26
```