

**Course : ITM 562**

**Name : Safdar Matcheswala**

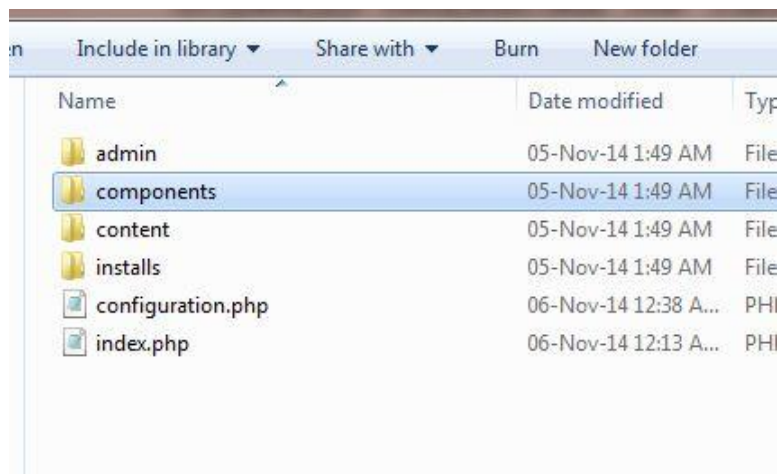
**Student ID : A20338761**

### **Assignment : 3**

The files submitted for this assignment makes the use of BOOTSTRAP in order to create a good layout for the website.

You are going to build a web application that could be delivered to and customized by customers with little to no knowledge of the PHP programming language. This web application will be used by schools in developing nations to host educational material and courses, much like blackboard is used by IIT. You have to perform the following tasks :

1. Your application must use our basic application framework layout and utilize databases to provide a customizable application.



As shown in the figure, my website uses MVC structure layout.



In Components folder, we have two components : course and user as shown above.

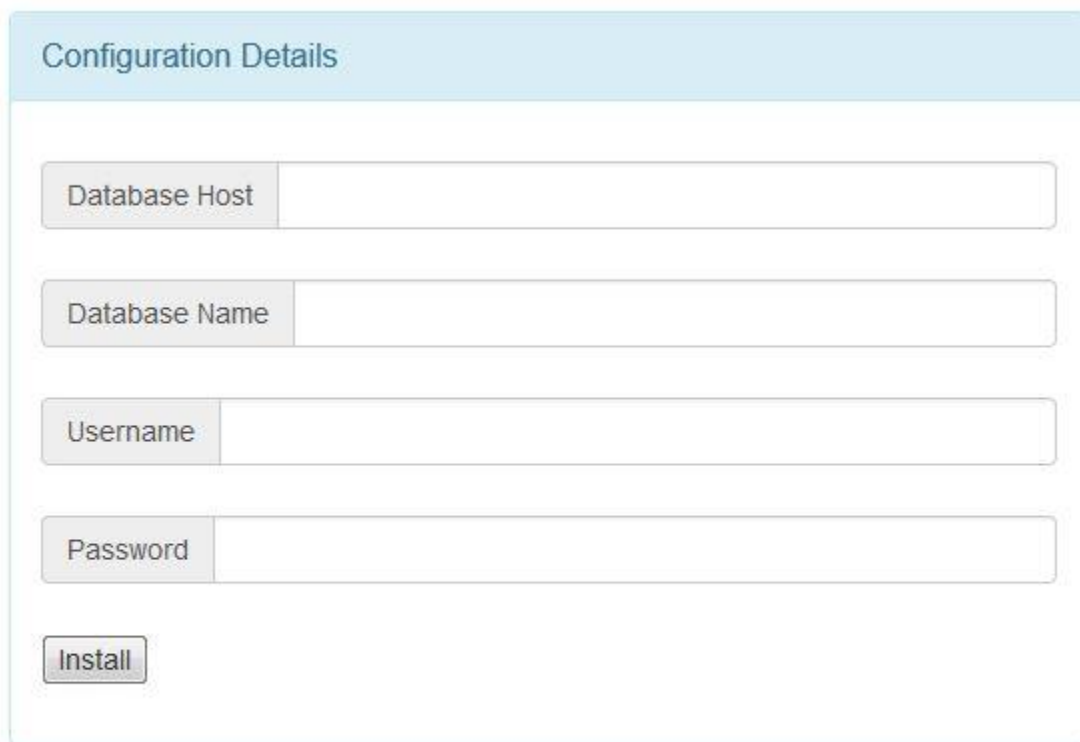
2. Your application must be configurable to use a specific database on a user supplied hostname, with user and password.

o For maximum points, logins should use salted and hashed passwords

o Graduates should provide a **installation.php instead of database.sql** file that presents an installation form that sets up the database host, user and password – this should set up the database, tables and **configuration.php** file automatically

→ This installation file should create any requisite tables and data inside the chosen database

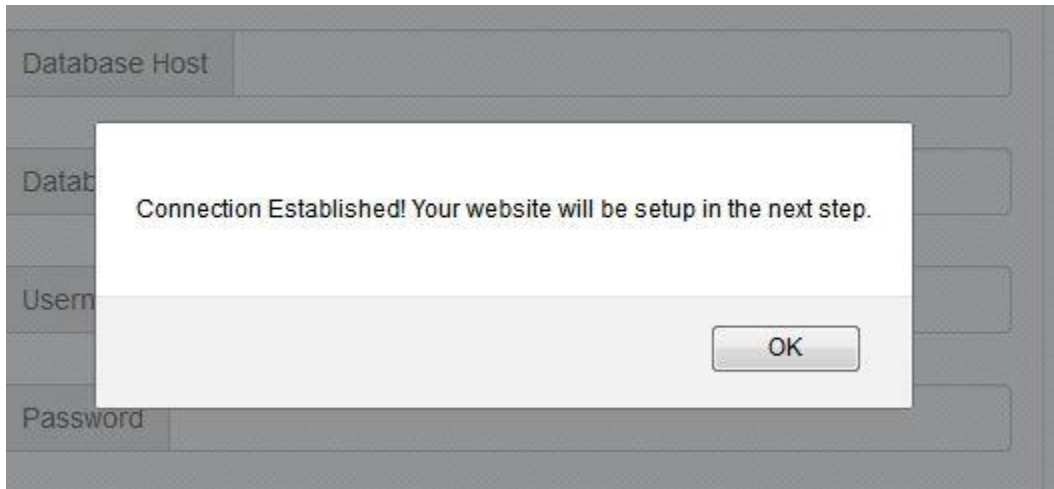
When you first time load all the files and open index page, it will directly redirect you to install page as follows :



The image shows a web form titled "Configuration Details" with a light blue header. Below the header, there are four input fields, each with a label on the left and a text box on the right: "Database Host", "Database Name", "Username", and "Password". At the bottom of the form is a button labeled "Install".

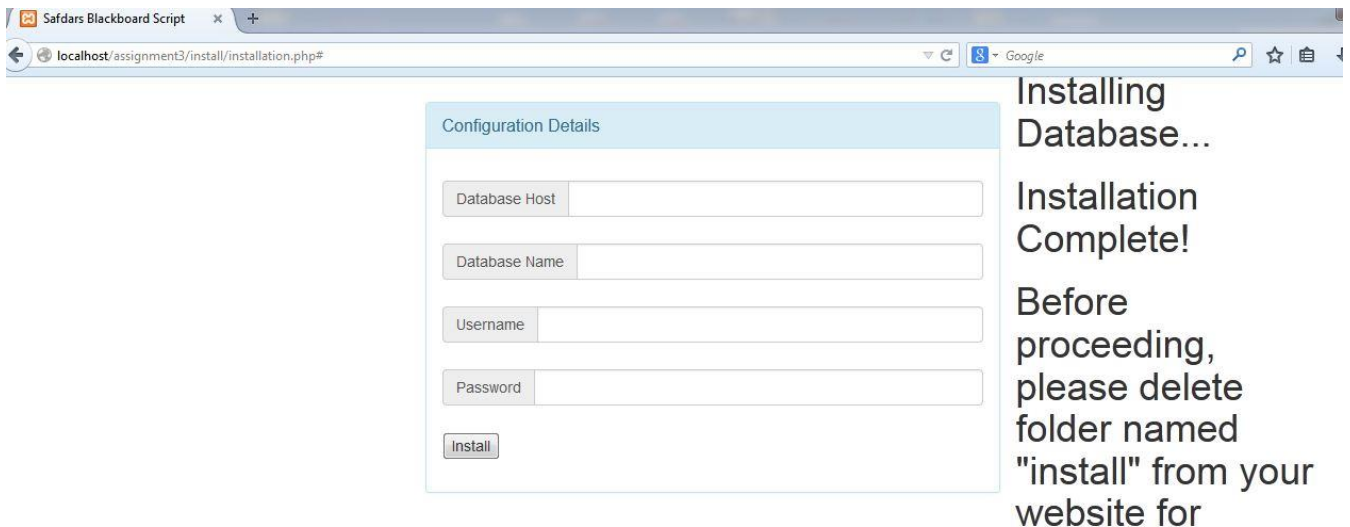
Configuration Details	
Database Host	<input type="text"/>
Database Name	<input type="text"/>
Username	<input type="text"/>
Password	<input type="text"/>
<input type="button" value="Install"/>	

Just enter your database details and click on install, if it is successful it will show you the following screen :



Click on OK

And then you will get the following screen :



security purposes.

Go to admin page and edit your settings : [Admin](#)

Username : admin

Password : admin

It automatically creates the configuration.php file in your root folder and use it for connecting to database.

It tells you to delete the install folder, it is required.

If you do not delete the install folder you will not be able to run the site. It will show you following message :



## Install directory not deleted

The logic used for installation is as follows :

- The script first check for configuration file, if it finds configuration file then it assumes that the site is installed and then it checks for install folder, so if it find install folder then it displays the message as above.
- And if it do not find the configuration file then it just redirect you to install folder to install your website.

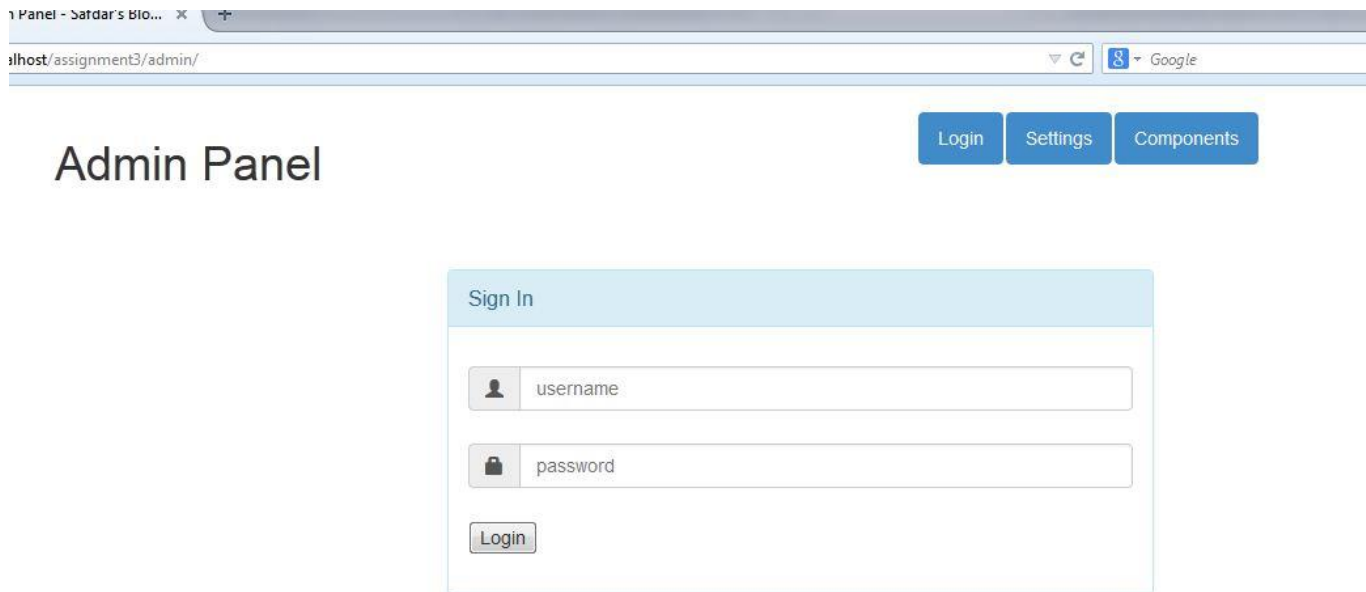
3. Your application should have one user facing entry point – **index.php** that creates all views for all customer requirements – to do this it will need to use additional components

My site has just one entry point which just has 2 components : course and user

4. Administrative users should be able to log in to the website admin section (**admin/index.php**), and after logging in:

- o Customize elements of the website by enabling and disabling different components
- o Customize the site name and subtitle – which should be reflected in the common layout across all pages

Here is the admin page :



The screenshot shows a web browser window with the address bar displaying 'localhost/assignment3/admin/'. The page title is 'Admin Panel'. In the top right corner, there are three blue buttons: 'Login', 'Settings', and 'Components'. The main content area features a 'Sign In' form with a light blue header. The form contains two input fields: 'username' with a user icon and 'password' with a lock icon. Below these fields is a 'Login' button.

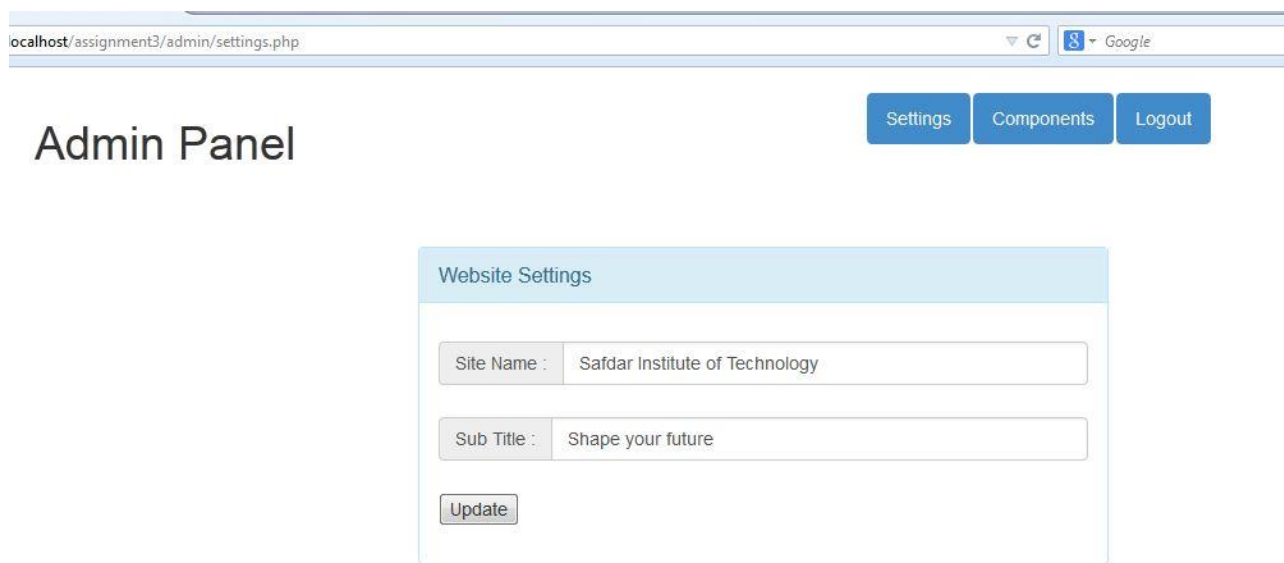
The menu shows the components and settings but you will not be able to access it without logging in.

Just enter the admin details as follows :

Username : admin

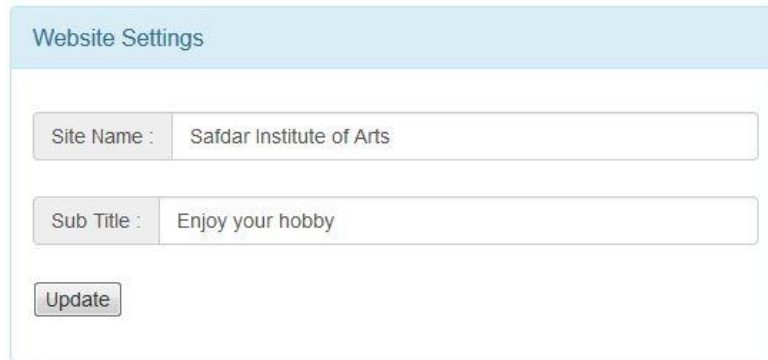
Password : admin

Then it directly redirect to settings page as follows :



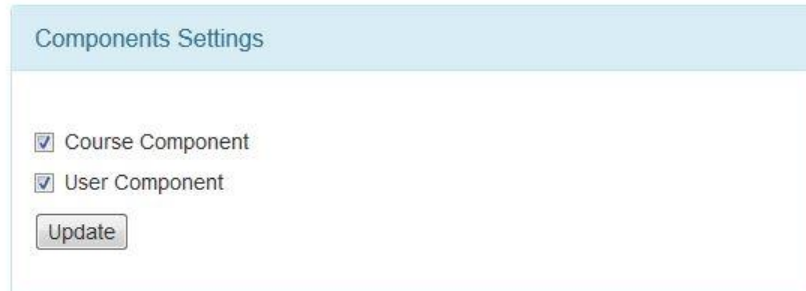
The screenshot shows a web browser window with the address bar displaying 'localhost/assignment3/admin/settings.php'. The page title is 'Admin Panel'. In the top right corner, there are three blue buttons: 'Settings', 'Components', and 'Logout'. The main content area features a 'Website Settings' form with a light blue header. The form contains two input fields: 'Site Name : Safdar Institute of Technology' and 'Sub Title : Shape your future'. Below these fields is an 'Update' button.

You can update the site name and title and click on update and it will show you that it has been updated as follows:



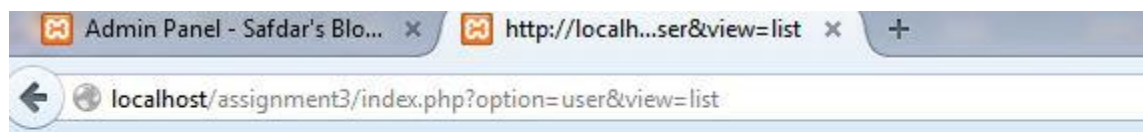
The screenshot shows a 'Website Settings' form. It has two input fields: 'Site Name' with the value 'Safdar Institute of Arts' and 'Sub Title' with the value 'Enjoy your hobby'. Below these fields is an 'Update' button.

Now, click on components button on the menu, you will see the following page:



The screenshot shows a 'Components Settings' form. It has two checkboxes: 'Course Component' and 'User Component', both of which are checked. Below these checkboxes is an 'Update' button.

The tick mark on both the components indicates that the components are enabled, so let's disable the user component. Just uncheck it and click on update. Now try to view the user component by going to the following URL: `index.php?option=user&view=list`. You will get the following page:



**404 - No Controller for specified option**

That means it does not have that controller because it's disabled.

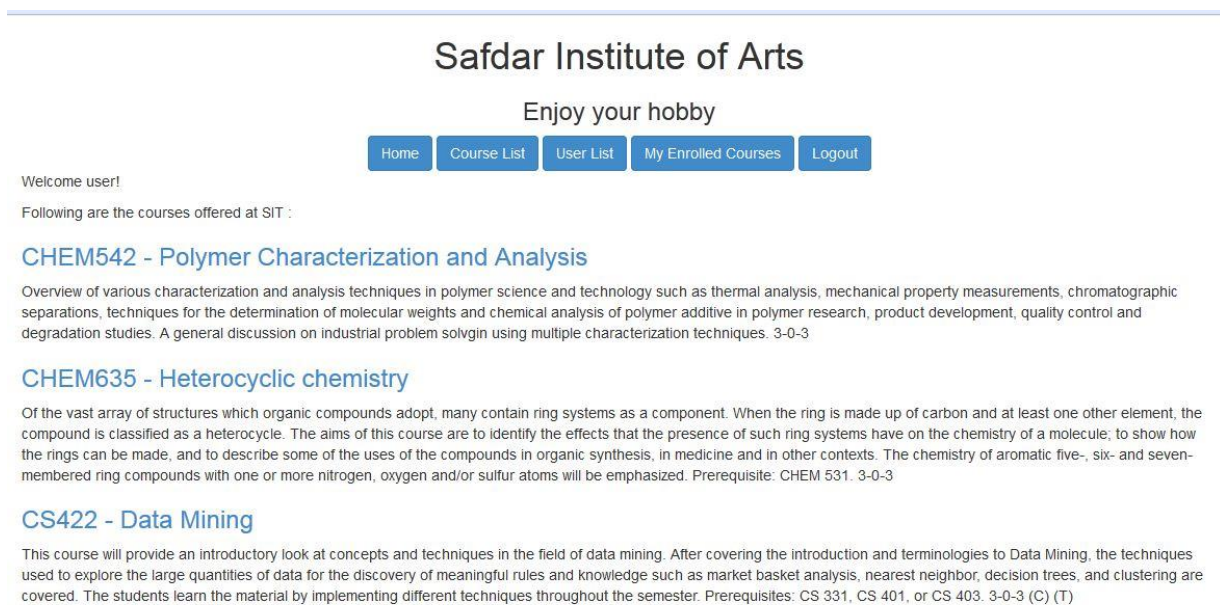
5. The main page (index.php) should show a form to login and links to the LIST views of any enabled components



The figure above is the main index page with links so user can navigate through the website.

## Components

Course Component with list view :



This page shows the list of all the courses and their description with a hyperlink to view more details.

This page can also be viewed without logging in.

The courses shown here are already added to the database. I have added total 10 random courses and data was taken from IIT website.

Just click on any title of any course to view the detail page which goes to detail view of course component as follows:

## Course Component with detail view :

### Safdar Institute of Arts

Enjoy your hobby

[Home](#) [Course List](#) [User List](#) [My Enrolled Courses](#) [Logout](#)

Welcome user!

Detail of the course is as follows :

#### CS422 - Data Mining

This course will provide an introductory look at concepts and techniques in the field of data mining. After covering the introduction and terminologies to Data Mining, the techniques used to explore the large quantities of data for the discovery of meaningful rules and knowledge such as market basket analysis, nearest neighbor, decision trees, and clustering are covered. The students learn the material by implementing different techniques throughout the semester. Prerequisites: CS 331, CS 401, or CS 403. 3-0-3 (C) (T)

Credit Hours : 3

Enroll

If the user is logged in, there will be enroll button in the bottom as shown above, but if the user is not logged in then there will be no enroll button but the user can still view the detail of the course.

## User Component with list view :

Clicking on the user list will show the list of all the users on the website as follows :

### Safdar Institute of Arts

Enjoy your hobby

[Home](#) [Course List](#) [User List](#) [My Enrolled Courses](#) [Logout](#)

Welcome user!

List of all the users in SIT :

Name : Safdar Matcheswala  
Email : smatches@hawk.iit.edu

Name : John Ceina  
Email : john123@mysite.com

Name : Tom Kang  
Email : tomkang@site.com

Name : Brad Pitt  
Email : brad@email.com

Name : Jason Lambert  
Email : jlambert4@hawk.iit.edu



By default, I have added 5 users in the database as follows :

Username : user

Password : user

Username : john

Password : john

Username : tom

Password : tom

Username : brad

Password : brad

Username : jason

Password : Jason

This page can also be viewed without logging in.

Now, click on any of the course and click on enroll button. You will get the following screen :

Welcome user!

# Course Enrolled Successfully!

## User Component with list view :

This view shows the list of all the courses user has enrolled as follows :

---

Safdar Institute of Arts

Enjoy your hobby

Home

Course List

User List

My Enrolled Courses

Logout

Welcome user!

### Courses you are enrolled :

CS422 - Data Mining

MATH522 - Mathematical Modeling

CS548 - Broadband Networks

Here is the tables of the database and structure of each table :

127.0.0.1 » itm

Structure		SQL		Search		Query		Export		Import		Operations		Privilege	
Table	Action											Rows	Type	Collation	
<input type="checkbox"/> admin	Browse  Structure  Search  Insert  Empty  Drop											1	InnoDB	latin1_swedis	
<input type="checkbox"/> courses	Browse  Structure  Search  Insert  Empty  Drop											10	InnoDB	latin1_swedis	
<input type="checkbox"/> enrollment	Browse  Structure  Search  Insert  Empty  Drop											3	InnoDB	latin1_swedis	
<input type="checkbox"/> modules	Browse  Structure  Search  Insert  Empty  Drop											2	InnoDB	latin1_swedis	
<input type="checkbox"/> settings	Browse  Structure  Search  Insert  Empty  Drop											1	InnoDB	latin1_swedis	
<input type="checkbox"/> user	Browse  Structure  Search  Insert  Empty  Drop											5	InnoDB	latin1_swedis	
6 tables	Sum											22	InnoDB	latin1_swedi	

Check All / Uncheck All

With selected:

Structure of admin table :

127.0.0.1 » itm » admin						
#	Name	Type	Collation	Attributes	Null	Default
<input type="checkbox"/> 1	username	varchar(10)	latin1_swedish_ci		No	None
<input type="checkbox"/> 2	password	varchar(100)	latin1_swedish_ci		No	None

☐ Check All / Uncheck All
 With selected:

Structure of courses table:

127.0.0.1 » itm » courses						
#	Name	Type	Collation	Attributes	Null	Default
<input type="checkbox"/> 1	id	varchar(10)	latin1_swedish_ci		No	None
<input type="checkbox"/> 2	name	varchar(100)	latin1_swedish_ci		No	None
<input type="checkbox"/> 3	description	varchar(5000)	latin1_swedish_ci		No	None
<input type="checkbox"/> 4	credithours	int(4)			No	None

Structure of enrollment table:

Browse          Structure          SQL          Search			
#	Name	Type	Collation
<input type="checkbox"/> 1	<b>username</b>	varchar(20)	latin1_swedish_ci
<input type="checkbox"/> 2	<b>courseid</b>	varchar(10)	latin1_swedish_ci

Structure of modules table, this table is contain components enable or disable with tinyint

Browse          Structure          SQL          Search				
#	Name	Type	Collation	Attributes
<input type="checkbox"/> 1	<b>id</b>	int(11)		
<input type="checkbox"/> 2	<b>name</b>	varchar(15)	latin1_swedish_ci	
<input type="checkbox"/> 3	<b>enabled</b>	tinyint(1)		

Structure of settings table:

Browse          Structure          SQL          Search				
#	Name	Type	Collation	Attributes
<input type="checkbox"/> 1	<b>sitename</b>	varchar(50)	latin1_swedish_ci	
<input type="checkbox"/> 2	<b>subtitle</b>	varchar(200)	latin1_swedish_ci	

Structure of user table:

Browse          Structure          SQL          Search          Insert						
#	Name	Type	Collation	Attributes	Null	D
<input type="checkbox"/> 1	<b>id</b>	int(11)			No	N
<input type="checkbox"/> 2	<b>username</b>	varchar(20)	latin1_swedish_ci		No	N
<input type="checkbox"/> 3	<b>password</b>	varchar(100)	latin1_swedish_ci		No	N
<input type="checkbox"/> 4	<b>firstname</b>	varchar(20)	latin1_swedish_ci		No	N
<input type="checkbox"/> 5	<b>lastname</b>	varchar(20)	latin1_swedish_ci		No	N
<input type="checkbox"/> 6	<b>email</b>	varchar(50)	latin1_swedish_ci		No	N