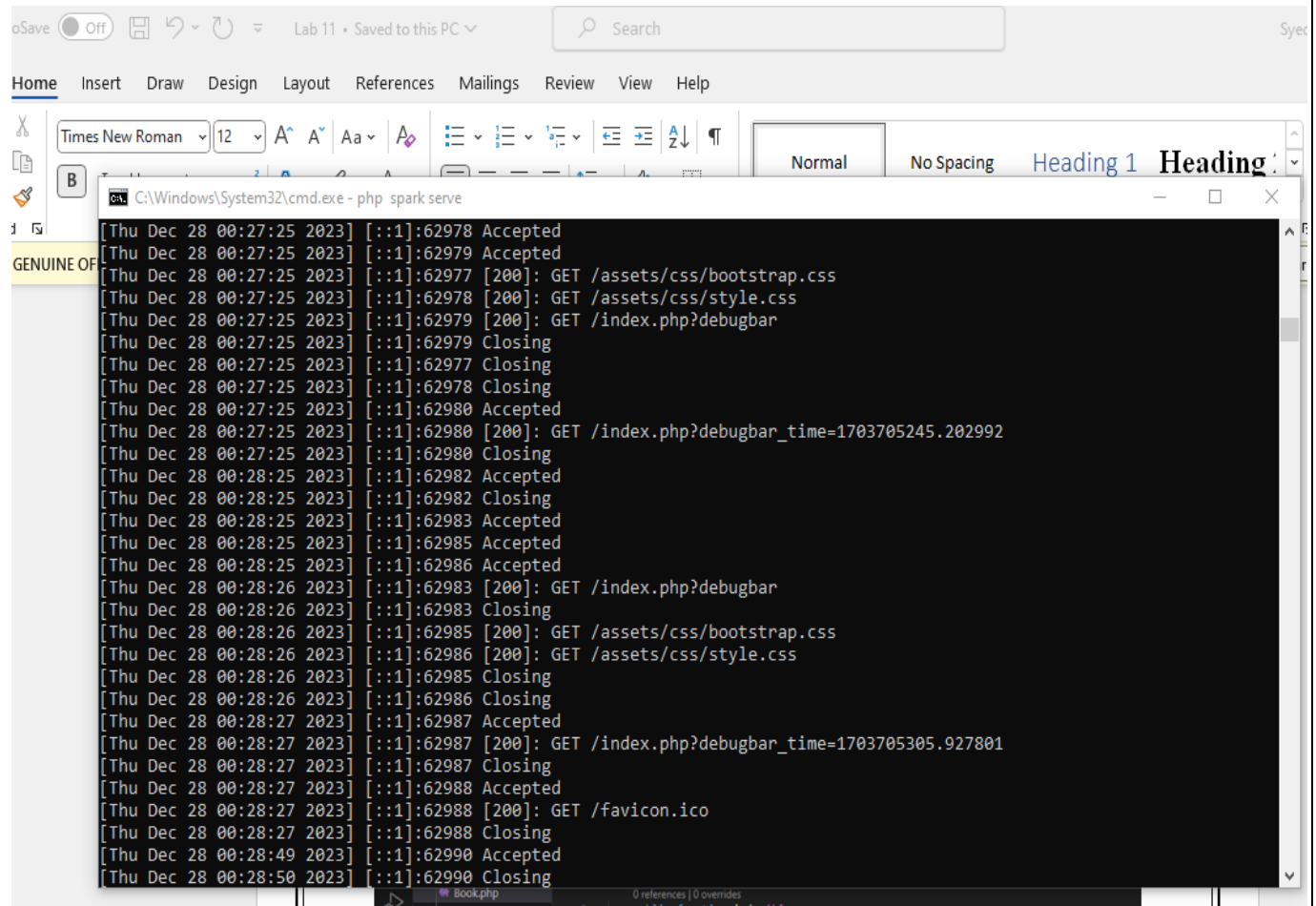


## Lab 12 Task:

Q1. Create a CRUD Application Using Codeignator.

### “Adding Code Only for Demonstration ( Not the Entire Code )”

Php spark serve:



```
C:\Windows\System32\cmd.exe - php spark serve
[Thu Dec 28 00:27:25 2023] [::1]:62978 Accepted
[Thu Dec 28 00:27:25 2023] [::1]:62979 Accepted
[Thu Dec 28 00:27:25 2023] [::1]:62977 [200]: GET /assets/css/bootstrap.css
[Thu Dec 28 00:27:25 2023] [::1]:62978 [200]: GET /assets/css/style.css
[Thu Dec 28 00:27:25 2023] [::1]:62979 [200]: GET /index.php?debugbar
[Thu Dec 28 00:27:25 2023] [::1]:62979 Closing
[Thu Dec 28 00:27:25 2023] [::1]:62977 Closing
[Thu Dec 28 00:27:25 2023] [::1]:62978 Closing
[Thu Dec 28 00:27:25 2023] [::1]:62980 Accepted
[Thu Dec 28 00:27:25 2023] [::1]:62980 [200]: GET /index.php?debugbar_time=1703705245.202992
[Thu Dec 28 00:27:25 2023] [::1]:62980 Closing
[Thu Dec 28 00:28:25 2023] [::1]:62982 Accepted
[Thu Dec 28 00:28:25 2023] [::1]:62982 Closing
[Thu Dec 28 00:28:25 2023] [::1]:62983 Accepted
[Thu Dec 28 00:28:25 2023] [::1]:62985 Accepted
[Thu Dec 28 00:28:25 2023] [::1]:62986 Accepted
[Thu Dec 28 00:28:26 2023] [::1]:62983 [200]: GET /index.php?debugbar
[Thu Dec 28 00:28:26 2023] [::1]:62983 Closing
[Thu Dec 28 00:28:26 2023] [::1]:62985 [200]: GET /assets/css/bootstrap.css
[Thu Dec 28 00:28:26 2023] [::1]:62986 [200]: GET /assets/css/style.css
[Thu Dec 28 00:28:26 2023] [::1]:62985 Closing
[Thu Dec 28 00:28:26 2023] [::1]:62986 Closing
[Thu Dec 28 00:28:27 2023] [::1]:62987 Accepted
[Thu Dec 28 00:28:27 2023] [::1]:62987 [200]: GET /index.php?debugbar_time=1703705305.927801
[Thu Dec 28 00:28:27 2023] [::1]:62987 Closing
[Thu Dec 28 00:28:27 2023] [::1]:62988 Accepted
[Thu Dec 28 00:28:27 2023] [::1]:62988 [200]: GET /favicon.ico
[Thu Dec 28 00:28:27 2023] [::1]:62988 Closing
[Thu Dec 28 00:28:49 2023] [::1]:62990 Accepted
[Thu Dec 28 00:28:50 2023] [::1]:62990 Closing
```

## MySQL (Database ,Table):










The screenshot displays the MySQL phpMyAdmin interface. The top navigation bar includes tabs for Databases, SQL, Status, User accounts, and Export. Below this, there are buttons for 'Check all' and 'Drop'. The main content area shows a list of databases with columns for Database, Collation, and Action. The 'ci4' database is highlighted with a red circle. Below the database list, there is a 'Total: 15' label.






Database	Collation	Action
ci4	utf8mb4_general_ci	Check privileges
information_schema	utf8_general_ci	Check privileges
mysql	utf8mb4_general_ci	Check privileges
performance_schema	utf8_general_ci	Check privileges
test	latin1_swedish_ci	Check privileges
your_database	utf8mb4_general_ci	Check privileges

Total: 15

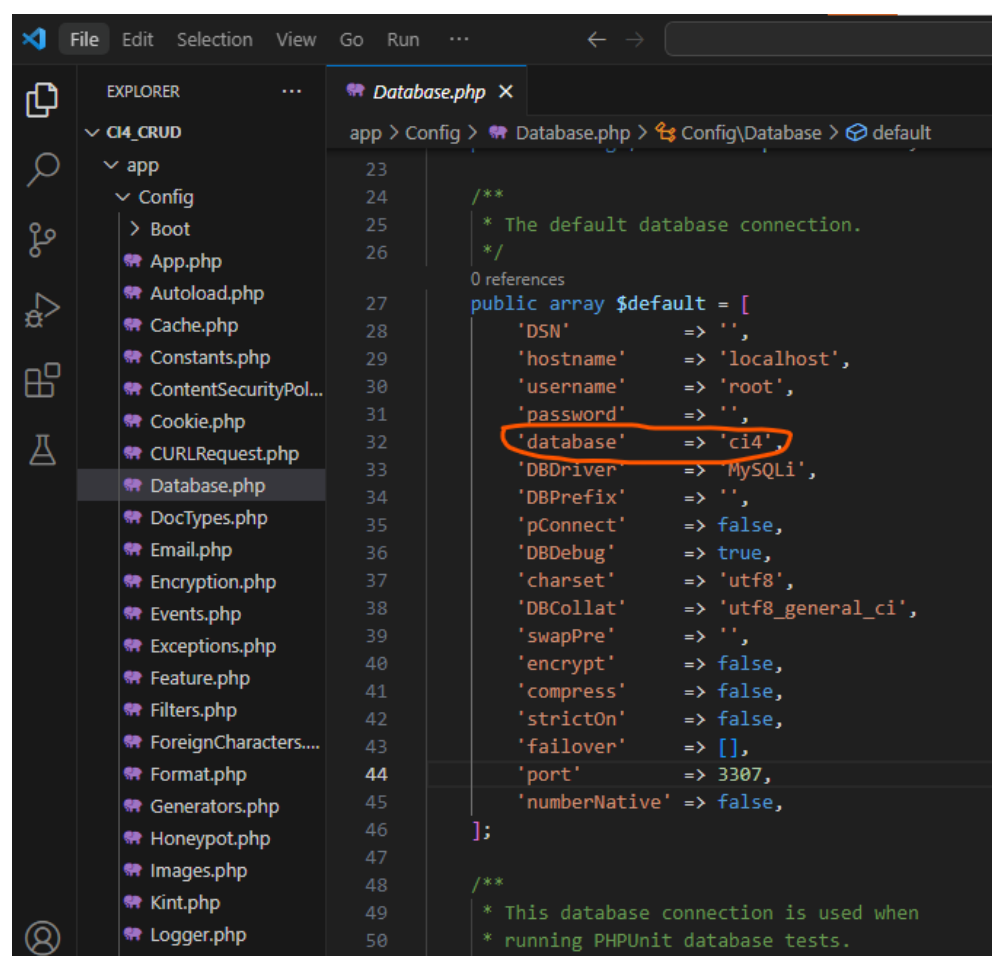
The bottom part of the screenshot shows the 'Structure' tab for the 'ci4' database. It includes a 'Filters' section with a search box. Below this, there is a table list with columns for Table, Action, and Rows. The 'books' table is selected. At the bottom, there is a 'Create new table' form with fields for Table name and Number of columns, and a 'Create' button.

Extra options

			id	title	isbn_no	author	created_at	
<input type="checkbox"/>	 Edit	 Copy	 Delete	2	Anshrah1	223424	ABCEFFG	2023-12-27
<input type="checkbox"/>	 Edit	 Copy	 Delete	3	Anshrah234	223424	ABCEFFG	2023-12-27
<input type="checkbox"/>	 Edit	 Copy	 Delete	4	AKSADAJupdateing	23883	ASHHUUDD	2023-12-27

☐ Check all    With selected:  Edit     Copy     Delete     Export

### Config/Database.php:

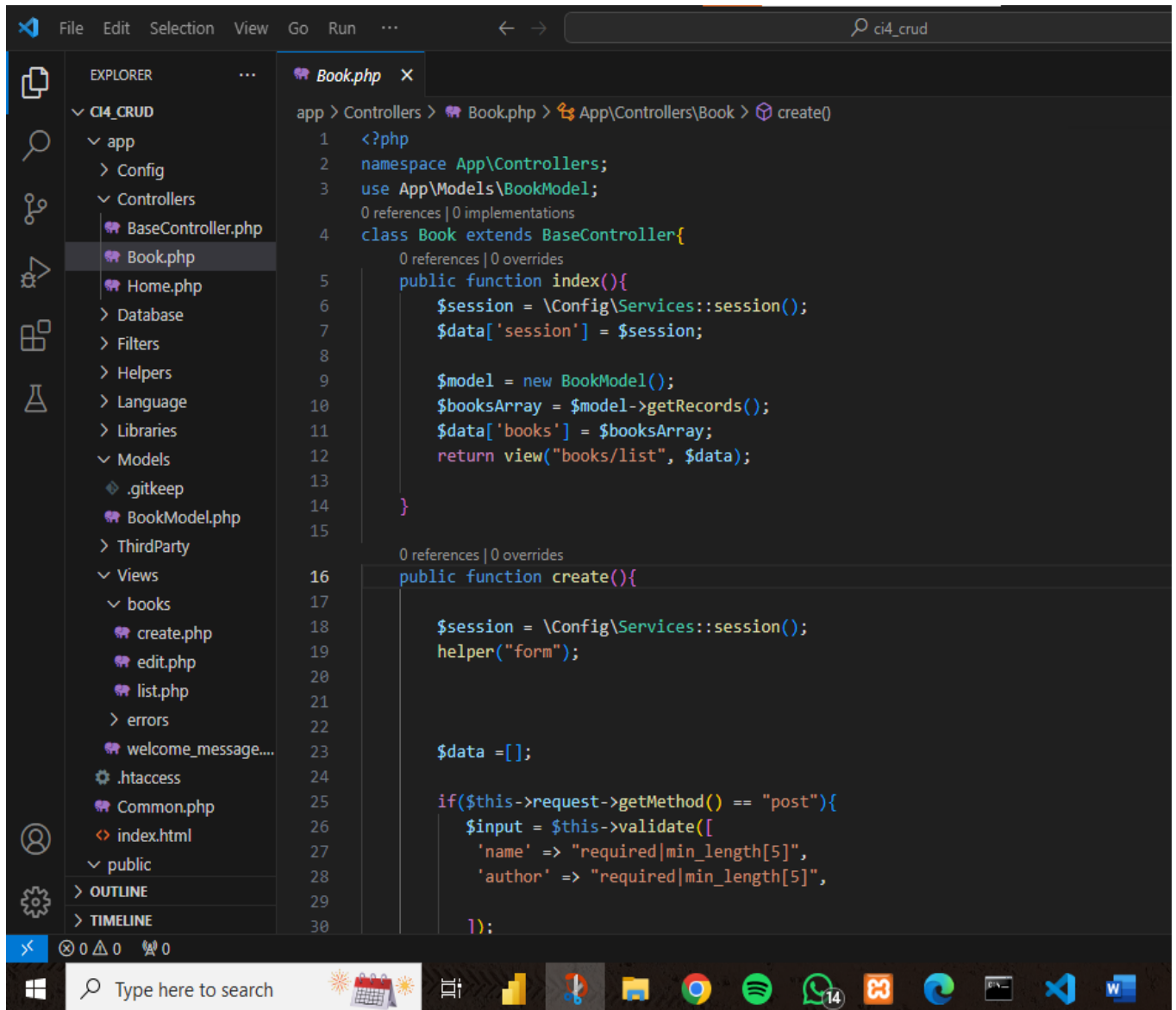


```
23
24
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49
50

/**
 * The default database connection.
 */
0 references
public array $default = [
    'DSN' => '',
    'hostname' => 'localhost',
    'username' => 'root',
    'password' => '',
    'database' => 'ci4',
    'DBDriver' => 'MySQLi',
    'DBPrefix' => '',
    'pConnect' => false,
    'DBDebug' => true,
    'charset' => 'utf8',
    'DBCollat' => 'utf8_general_ci',
    'swapPre' => '',
    'encrypt' => false,
    'compress' => false,
    'strictOn' => false,
    'failover' => [],
    'port' => 3307,
    'numberNative' => false,
];

/**
 * This database connection is used when
 * running PHPUnit database tests.
```

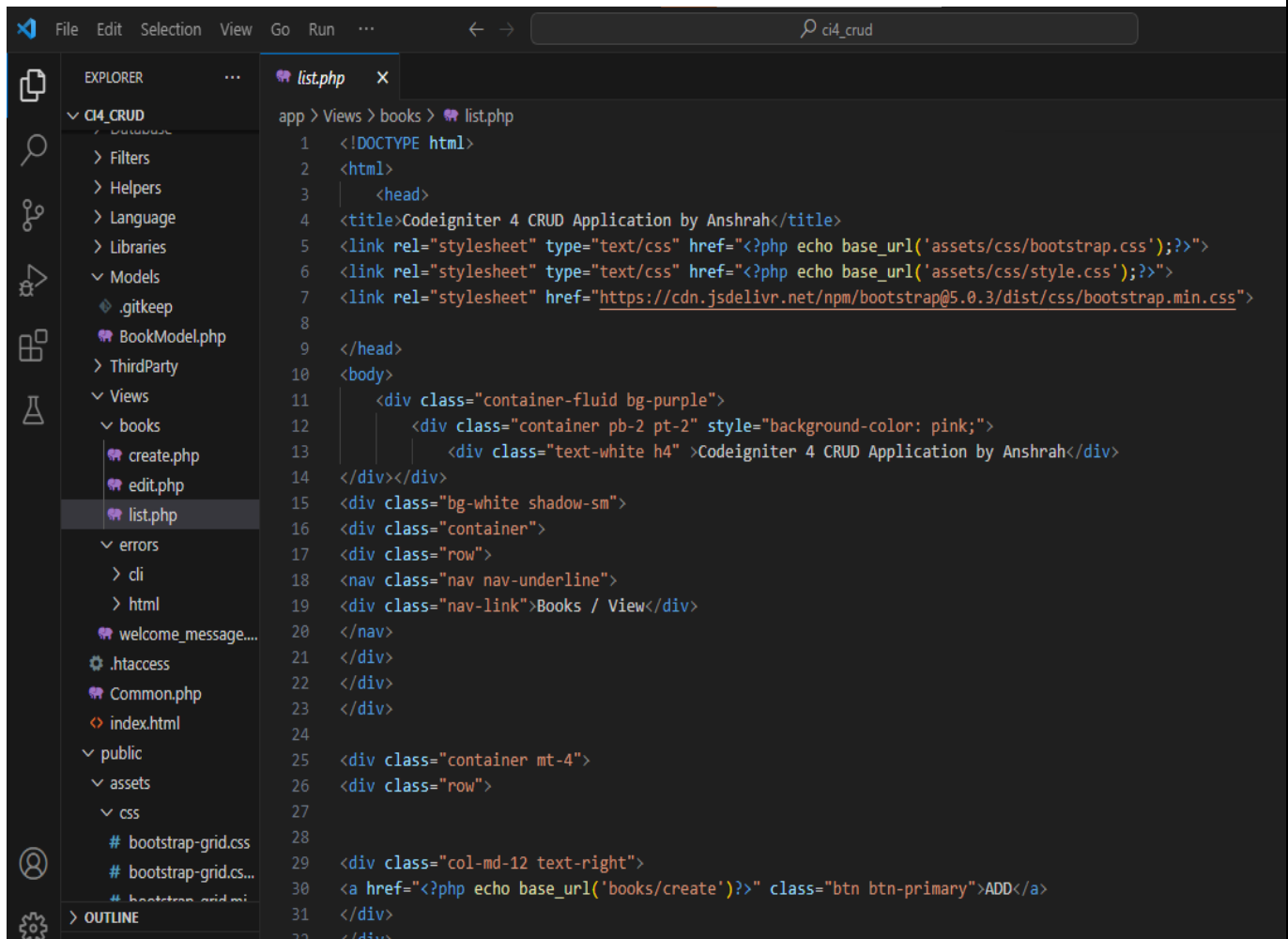
## Controller (Book.php):



```
app > Controllers > Book.php > App\Controllers\Book > create()
1  <?php
2  namespace App\Controllers;
3  use App\Models\BookModel;
4  class Book extends BaseController{
5      public function index(){
6          $session = \Config\Services::session();
7          $data['session'] = $session;
8
9          $model = new BookModel();
10         $booksArray = $model->getRecords();
11         $data['books'] = $booksArray;
12         return view("books/list", $data);
13     }
14
15     public function create(){
16
17         $session = \Config\Services::session();
18         helper("form");
19
20         $data = [];
21
22         if($this->request->getMethod() == "post"){
23             $input = $this->validate([
24                 'name' => "required|min_length[5]",
25                 'author' => "required|min_length[5]",
26             ]);
27         }
28     }
29
30 }
```

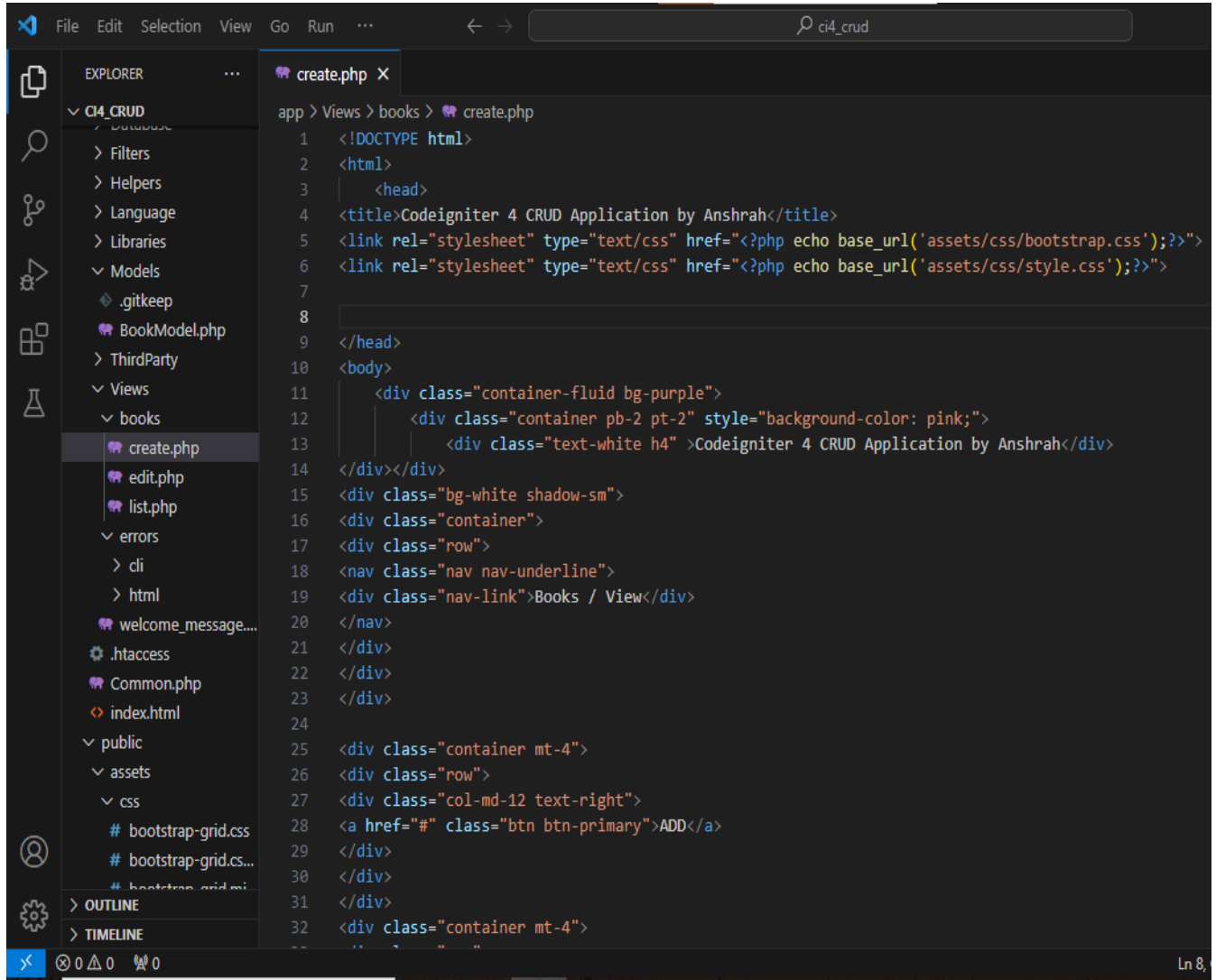
## Views/Books :

### 1. List.php:



```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Codeigniter 4 CRUD Application by Anshrah</title>
5     <link rel="stylesheet" type="text/css" href="<?php echo base_url('assets/css/bootstrap.css');?>">
6     <link rel="stylesheet" type="text/css" href="<?php echo base_url('assets/css/style.css');?>">
7     <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.3/dist/css/bootstrap.min.css">
8   </head>
9   <body>
10     <div class="container-fluid bg-purple">
11       <div class="container pb-2 pt-2" style="background-color: pink;">
12         <div class="text-white h4">Codeigniter 4 CRUD Application by Anshrah</div>
13       </div></div>
14     <div class="bg-white shadow-sm">
15       <div class="container">
16         <div class="row">
17           <nav class="nav nav-underline">
18             <div class="nav-link">Books / View</div>
19           </nav>
20         </div>
21       </div>
22     </div>
23   </body>
24 </div>
25 <div class="container mt-4">
26   <div class="row">
27     <div class="col-md-12 text-right">
28       <a href="<?php echo base_url('books/create')?>" class="btn btn-primary">ADD</a>
29     </div>
30   </div>
31 </div>
```

## 2. Create.php:

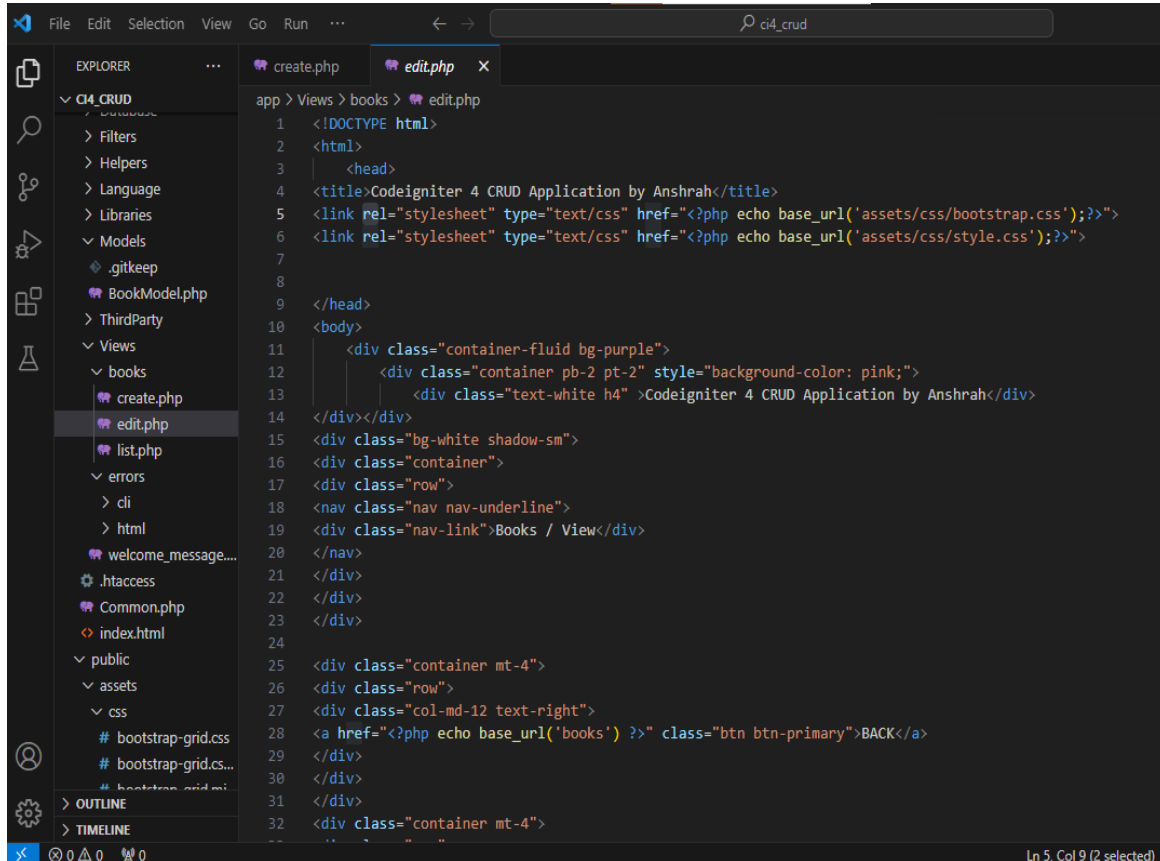


```
File Edit Selection View Go Run ... ci4_crud

EXPLORER
  CI4_CRUD
    > Filters
    > Helpers
    > Language
    > Libraries
    > Models
    > .gitkeep
    > BookModel.php
    > ThirdParty
    > Views
      > books
        create.php
        edit.php
        list.php
      > errors
      > cli
      > html
      > welcome_message....
    > .htaccess
    > Common.php
    > index.html
    > public
      > assets
      > css
        # bootstrap-grid.css
        # bootstrap-grid.cs...
        # bootstrap-grid.mi...
    > OUTLINE
    > TIMELINE

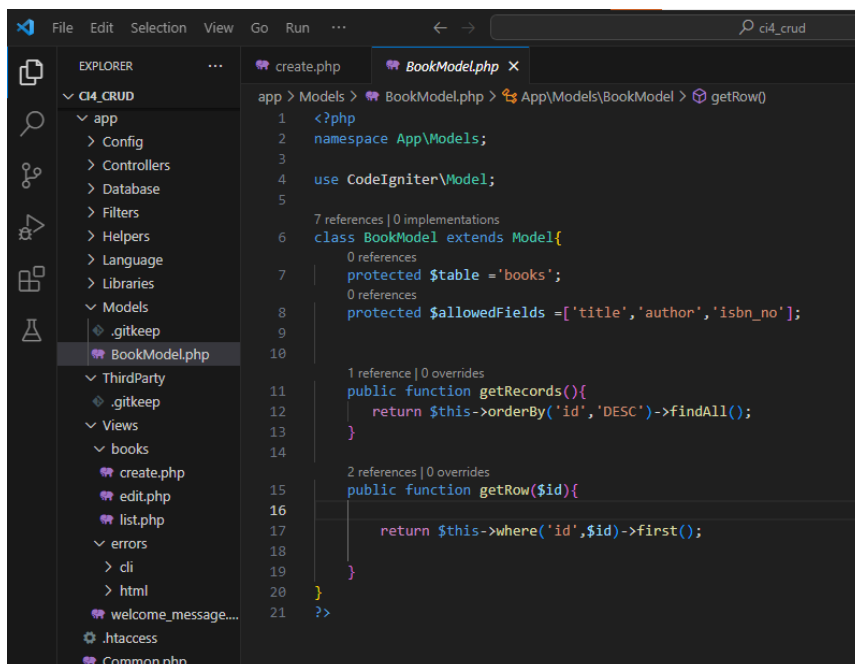
app > Views > books > create.php
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Codeigniter 4 CRUD Application by Anshrah</title>
5     <link rel="stylesheet" type="text/css" href="{?php echo base_url('assets/css/bootstrap.css');?}">
6     <link rel="stylesheet" type="text/css" href="{?php echo base_url('assets/css/style.css');?}">
7
8
9   </head>
10  <body>
11    <div class="container-fluid bg-purple">
12      <div class="container pb-2 pt-2" style="background-color: pink;">
13        <div class="text-white h4" >Codeigniter 4 CRUD Application by Anshrah</div>
14      </div></div>
15    <div class="bg-white shadow-sm">
16      <div class="container">
17        <div class="row">
18          <nav class="nav nav-underline">
19            <div class="nav-link">Books / View</div>
20          </nav>
21        </div>
22      </div>
23    </div>
24
25    <div class="container mt-4">
26      <div class="row">
27        <div class="col-md-12 text-right">
28          <a href="#" class="btn btn-primary">ADD</a>
29        </div>
30      </div>
31    </div>
32    <div class="container mt-4">
```

### 3. Edit.php:



```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Codeigniter 4 CRUD Application by Anshrah</title>
5     <link rel="stylesheet" type="text/css" href="<?php echo base_url('assets/css/bootstrap.css');?>">
6     <link rel="stylesheet" type="text/css" href="<?php echo base_url('assets/css/style.css');?>">
7
8   </head>
9   <body>
10     <div class="container-fluid bg-purple">
11       <div class="container pb-2 pt-2" style="background-color: pink;">
12         <div class="text-white h4">Codeigniter 4 CRUD Application by Anshrah</div>
13       </div></div>
14     <div class="bg-white shadow-sm">
15       <div class="container">
16         <div class="row">
17           <nav class="nav nav-underline">
18             <div class="nav-link">Books / View</div>
19           </nav>
20         </div>
21       </div>
22     </div>
23   </div>
24
25   <div class="container mt-4">
26     <div class="row">
27       <div class="col-md-12 text-right">
28         <a href="<?php echo base_url('books') ?>" class="btn btn-primary">BACK</a>
29       </div>
30     </div>
31   </div>
32   <div class="container mt-4">
```

### Models (BookModel.php) :

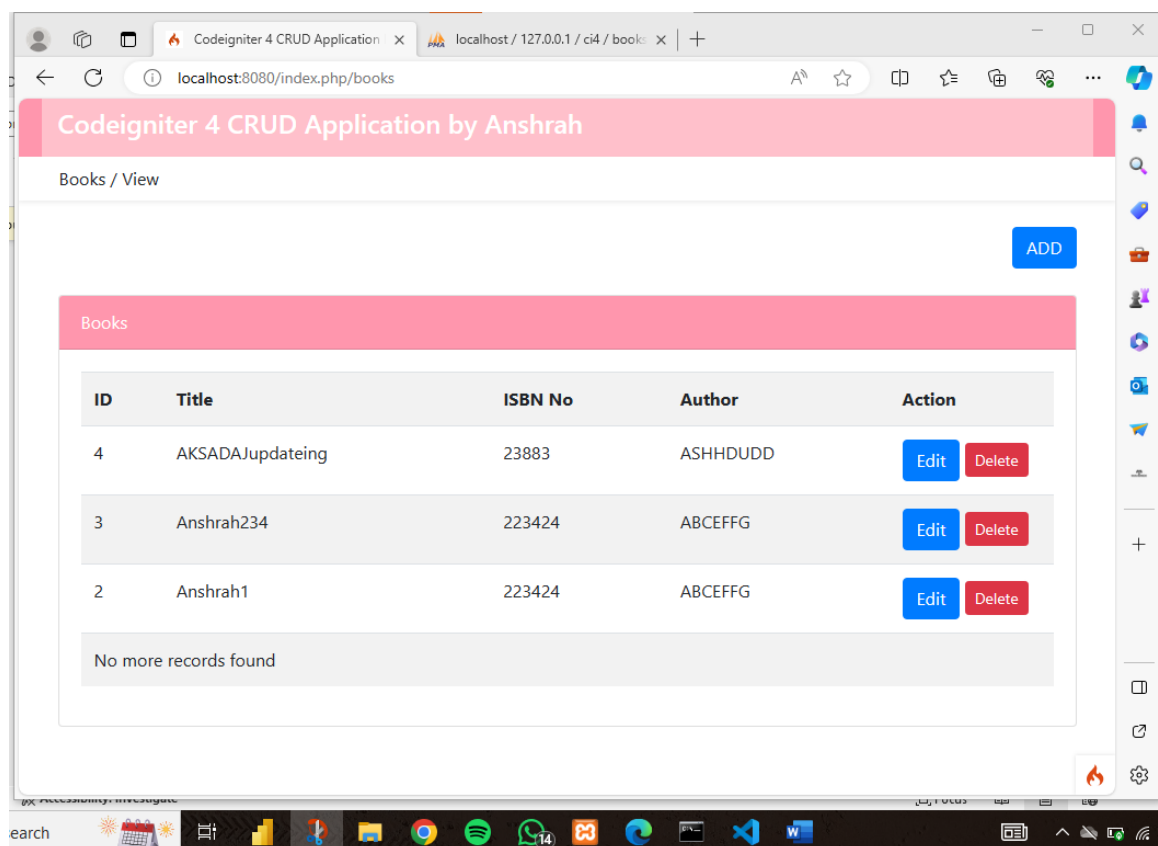


```
1 <?php
2 namespace App\Models;
3
4 use CodeIgniter\Model;
5
6 class BookModel extends Model{
7     protected $table = 'books';
8     protected $allowedFields = ['title', 'author', 'isbn_no'];
9
10     public function getRecords(){
11         return $this->orderBy('id', 'DESC')->findAll();
12     }
13
14     public function getRow($id){
15         return $this->where('id', $id)->first();
16     }
17 }
18
19 >
20
21 >
```

## Config/Routes.php

```
1 <?php
2
3 use CodeIgniter\Router\RouteCollection;
4
5 /**
6  * @var RouteCollection $routes
7  */
8 $routes->get('/', 'Home::index');
9
10 $routes->get('/books', 'Book::index');
11 $routes->get('/books/create', 'Book::create');
12 $routes->post('/books/create', 'Book::create');
13 $routes->get('/books/edit/(:num)', 'Book::edit/$1');
14 $routes->post('/books/edit/(:num)', 'Book::edit/$1');
15 $routes->get('/books/delete/(:num)', 'Book::delete/$1');
16
17
```

## OUTPUT:





Codeigniter 4 CRUD Application by Anshrah

Books / View

ADD

Create Book

Name  
Anshrah

Author  
abc34

ISBN No  
84823543

Submit

Codeigniter 4 CRUD Application

localhost / 127.0.0.1 / ci4 / books

localhost:8080/index.php/books

Books / View

ADD

success record added successfully.

Books

ID	Title	ISBN No	Author	Action
6	Anshrah	84823543	abc34	<a href="#">Edit</a> <a href="#">Delete</a>
4	AKSADAJupdateing	23883	ASHHDUDD	<a href="#">Edit</a> <a href="#">Delete</a>
3	Anshrah234	223424	ABCEFFG	<a href="#">Edit</a> <a href="#">Delete</a>
2	Anshrah1	223424	ABCEFFG	<a href="#">Edit</a> <a href="#">Delete</a>

No more records found

Extra options

			id	title	isbn_no	author	created_at	
<input type="checkbox"/>	Edit	Copy	Delete	2	Anshrah1	223424	ABCEFFG	2023-12-27
<input type="checkbox"/>	Edit	Copy	Delete	3	Anshrah234	223424	ABCEFFG	2023-12-27
<input type="checkbox"/>	Edit	Copy	Delete	4	AKSADAJupdateing	23883	ASHHUUDD	2023-12-27
<input type="checkbox"/>	Edit	Copy	Delete	6	Anshrah	84823543	abc34	2023-12-28

Codeigniter 4 CRUD Application

localhost / 127.0.0.1 / ci4 / book

localhost:8080/books/edit/6

Codeigniter 4 CRUD Application by Anshrah

Books / View

BACK

Edit Book

Name

Anshrah-UPDATING

Author

ALALALALLA

ISBN No

00304804

Submit

ADD

Updated successfully.

Books

ID	Title	ISBN No	Author	Action
6	Anshrah-UPDATING	304804	ALALALALLA	<div>EditDelete</div>
4	AKSADAJupdateing	23883	ASHHUUDD	<div>EditDelete</div>
3	Anshrah234	223424	ABCEFFG	<div>EditDelete</div>
2	Anshrah1	223424	ABCEFFG	<div>EditDelete</div>

Extra options

		id	title	isbn_no	author	created_at
<input type="checkbox"/>	Click the drop-down arrow to toggle column's visibility.	2	Anshrah1	223424	ABCEFFG	2023-12-27
<input type="checkbox"/>	Edit Copy Delete	3	Anshrah234	223424	ABCEFFG	2023-12-27
<input type="checkbox"/>	Edit Copy Delete	4	AKSADAJupdateing	23883	ASHH DUDD	2023-12-27
<input type="checkbox"/>	Edit Copy Delete	6	Anshrah-UPDATING	304804	ALALALALLA	2023-12-28

localhost:8080/index.php/books

Books / View

localhost:8080 says

Are you sure you want to delete this record?

OK

Cancel

ADD

Updated successfully.

## Books

ID	Title	ISBN No	Author	Action
6	Anshrah-UPDATING	304804	ALALALALLA	<a href="#">Edit</a> <a href="#">Delete</a>
4	AKSADAJupdateing	23883	ASHH DUDD	<a href="#">Edit</a> <a href="#">Delete</a>
3	Anshrah234	223424	ABCEFFG	<a href="#">Edit</a> <a href="#">Delete</a>
2	Anshrah1	223424	ABCEFFG	<a href="#">Edit</a> <a href="#">Delete</a>

No more records found

Codeigniter 4 CRUD Application by Anshrah

Books / View

ADD

Successfully Deleted ,FINALLY ALL CRUD FUNCTIONS COMPLETED on 28/12/2023

Books

ID	Title	ISBN No	Author	Action
4	AKSADAJupdateing	23883	ASHHDUDD	<a href="#">Edit</a> <a href="#">Delete</a>
3	Anshrah234	223424	ABCEFFG	<a href="#">Edit</a> <a href="#">Delete</a>
2	Anshrah1	223424	ABCEFFG	<a href="#">Edit</a> <a href="#">Delete</a>

No more records found

X \_\_\_\_\_ X \_\_\_\_\_ X

**The End**