Project Report

for

Not-Flix

SE- II Mini Project

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Professor
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Contents

1 Introduction

1.1 State of the art survey

To assess the present state of streaming sites and their attractiveness to consumers, we ran a survey to gather information on the most popular streaming platforms, the reasons for their appeal over competitors, and their disadvantages over others.
We discovered that Netflix is one of the most popular streaming sites after reviewing all of the poll responses. The appeal of Netfix as a more preferable option was due to its ease of use, appealing user interface, and categorical specification of the streaming content. Even with these advantages, however, the number of Netflix users was very low. The cause could be attributed to the subscription service's high cost. Other streaming services were also unsatisfactory.
So, to address the need for a streaming site with a user-friendly, appealing, and simple-to-use interface, we've chosen to create a streaming web platform with all of Netflix's features at a far lower cost. Our proposed solution, "NOT-FLIX" (website name), offers its users the best streaming video experience available without putting a strain on their wallet.

1.2 Intended Audience and Reading Suggestions

This SRS is for developers, project managers, users and testers. Further the discussion will provide all the internal, external, functional and also non-functional informations about "NOT-Flix WEBSITE".

1.3 Project Scope

"NOT-Flix WEBSITE" is a online streaming platform which provides all feature and the user experience offered by NetFlix.
After getting signing up to a Not-Flix user is redirected to a subscription page..He/She will be added as a user to the database after completing his/her payment process. After that he/she is redirected to the homepage, where he/she can see all the suggestions of the content he/she would like to watch. User profile will contain all his personal informations, subscription details and notifications

2 Overall Description

2.1 Problem Statement

"NOT-Flix WEBSITE" is a online streaming website with User friendly Interface and implementations of similar features like NetFlix.

2.2 Objectives

The following are the Objectives of our project:

- User friendly Site with less expenses.
- Categorical classification of the content.
- System for real-time search.

2.3 Operating Environment

The website will be operate in any Operating Environment - Mac, Windows, Linux etc.

2.4 Design

Student activities have 3 steps -

- Sign Up
- Subscription Payment
- User Profile
- Streaming Content

3 Constraint

3.1 Constraints for the project

- Due to limited memory availability not able to show all the movies and shows on the website.
- Due to less budget not able to purchase all new movies which are recently released.
- Only single screen is available on a single email id .

3.2 Advantages over existing Project

- Available at less price then existing one
- Provide attractive User Interface .
- The number and quality of movies and TV shows you have access to will depend on where you live on existing one , but our website show you all the content.

3.3 Disadvantages

- Only single screen subscription is available on our website.
- No Android/Ios App available right now.

4 System Features

"NOT-Flix WEBSITE" is an online streaming website. So the main art of this product is to watch content and provide a good user experience while using it.

4.1 Description and Priority

"NOT-Flix WEBSITE" has features that are main and also some are sub. But all the feature is necessary for this software.
The features with priority up to down -

1. Streaming of Content : This is the goal feature of this software.
2. Ability to search content
3. Categorical classification of content
4. Preview and thumbnail at home page
5. Season wise classification of the shows

4.2 Functional Requirements

The "Not-Flix WEBSITE" website is being build on HTML language, CSS, php, JavaScript and InnoDB.
Back-End - php, Javascript, mysql, XAMPP server.
Font-End - HTML, CSS.
Database - MongoDB, XAMPP server.

5 Other Nonfunctional Requirements

5.1 Performance Requirements

"NOT-Flix WEBSITE" is a website which provides a smooth user experience as same as NetFlix. It provides a cheap alternate to using Netflix.

5.2 Security Requirements

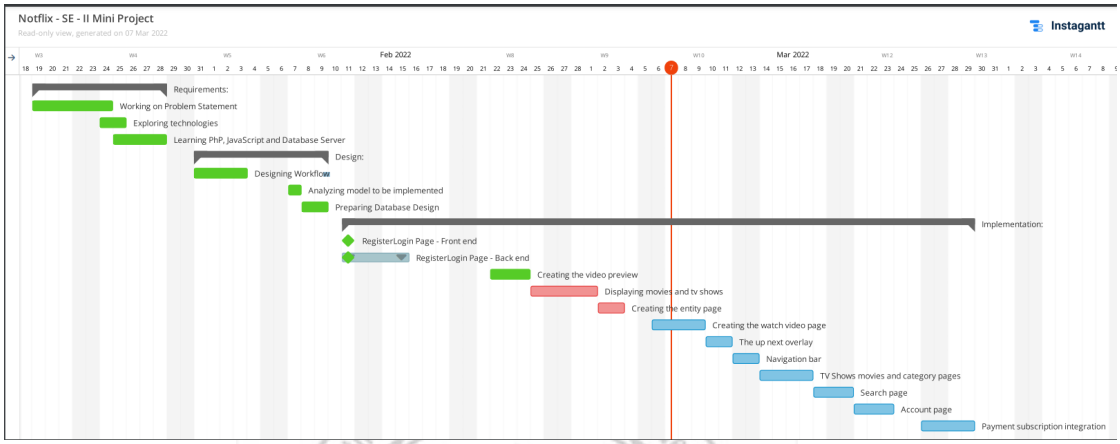
No one without registered users can enter to the website. Protection against SQL injection attacks.

5.3 Software Quality Attributes

Our development model for website, is Incremental model. Hence, testing is done after each new feature added, and it is follwed by sanity testing. In the development phase also testing and conferences of users is been continued. So that the quality of the software is been maintained and all the requirements are been fulfilled.
Database, logical and also UI test is required.

6 Project Planning using Automated Tools

6.1 Gantt Diagram

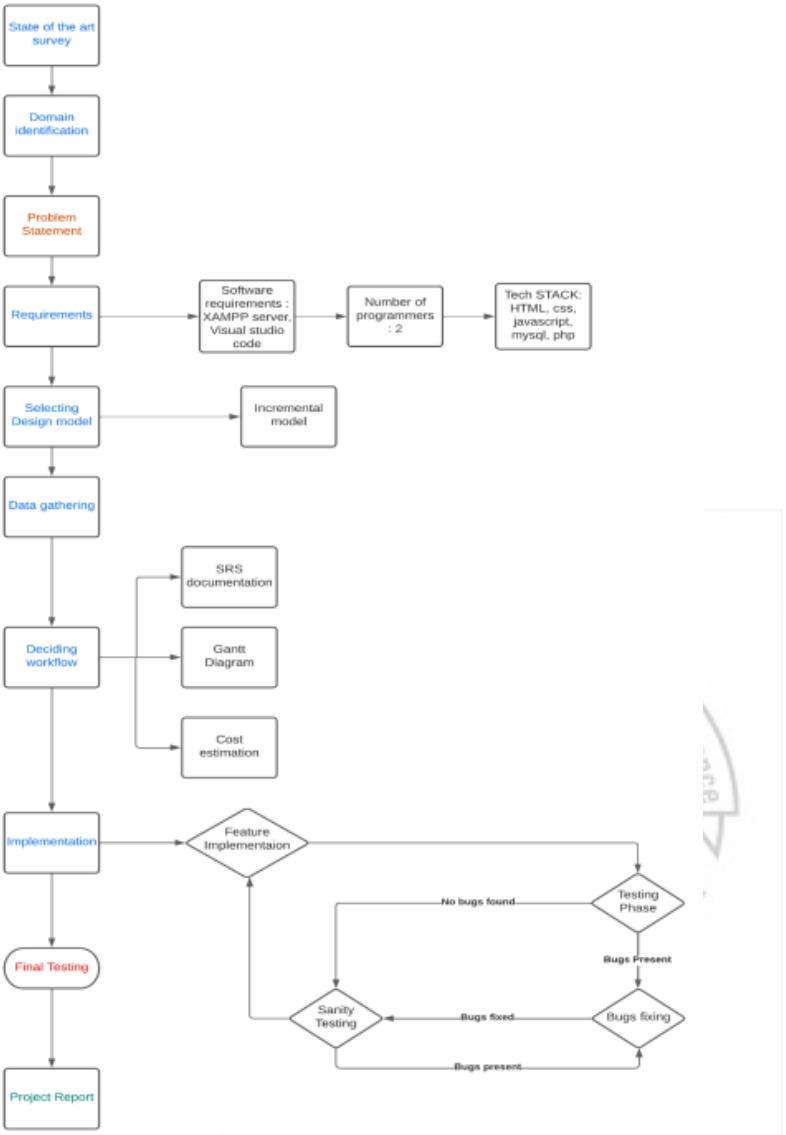


0.5

6.2 Cost Estimation

	Requirements:		**32h**	**19/Jan**	**28/Jan**	**100%**
1	Working on Problem State...	AR, Vi	8h	19/Jan	24/Jan	100%
2	Exploring technologies	AR, Vi	12h	24/Jan	25/Jan	100%
3	Learning PhP, JavaScript an...	AR, Vi	12h	25/Jan	28/Jan	100%
	+ Add task + Add section					
	Design:		**29h**	**31/Jan**	**09/Feb**	**100%**
6	Designing Workflow	AR, Vi	16h	31/Jan	03/Feb	100%
7	Analyzing model to be impl...	AR, Vi	3h	07/Feb	07/Feb	100%
8	Preparing Database Design	AR, Vi	10h	08/Feb	09/Feb	100%
	+ Add task + Add section					
	Implementation:		**134h**	**11/Feb**	**29/Mar**	**15%**
11	RegisterLogin Page - Front ...	Aman Rajput	5h	11/Feb	11/Feb	100%
	RegisterLogin Page - Back e...	Vivek	20h	11/Feb	15/Feb	100%
16	Creating the video preview	AR, Vi	12h	22/Feb	24/Feb	100%
17	Displaying movies and tv sh...	Aman Rajput	30h	25/Feb	01/Mar	0%
18	Creating the entity page	Vivek	8h	02/Mar	03/Mar	0%
19	Creating the watch video pa...	Vi, AR	10h	06/Mar	09/Mar	0%
20	The up next overlay	AR, Vi	6h	10/Mar	11/Mar	0%
21	Navigation bar	AR, Vi	4h	12/Mar	13/Mar	0%
22	TV Shows movies and categ...	Vi, AR	8h	14/Mar	17/Mar	0%
23	Search page	AR, Vi	8h	18/Mar	20/Mar	0%
24	Account page	AR, Vi	7h	21/Mar	23/Mar	0%
25	Payment subscription integ...	Vi, AR	16h	26/Mar	29/Mar	0%
	+ Add task + Add section					

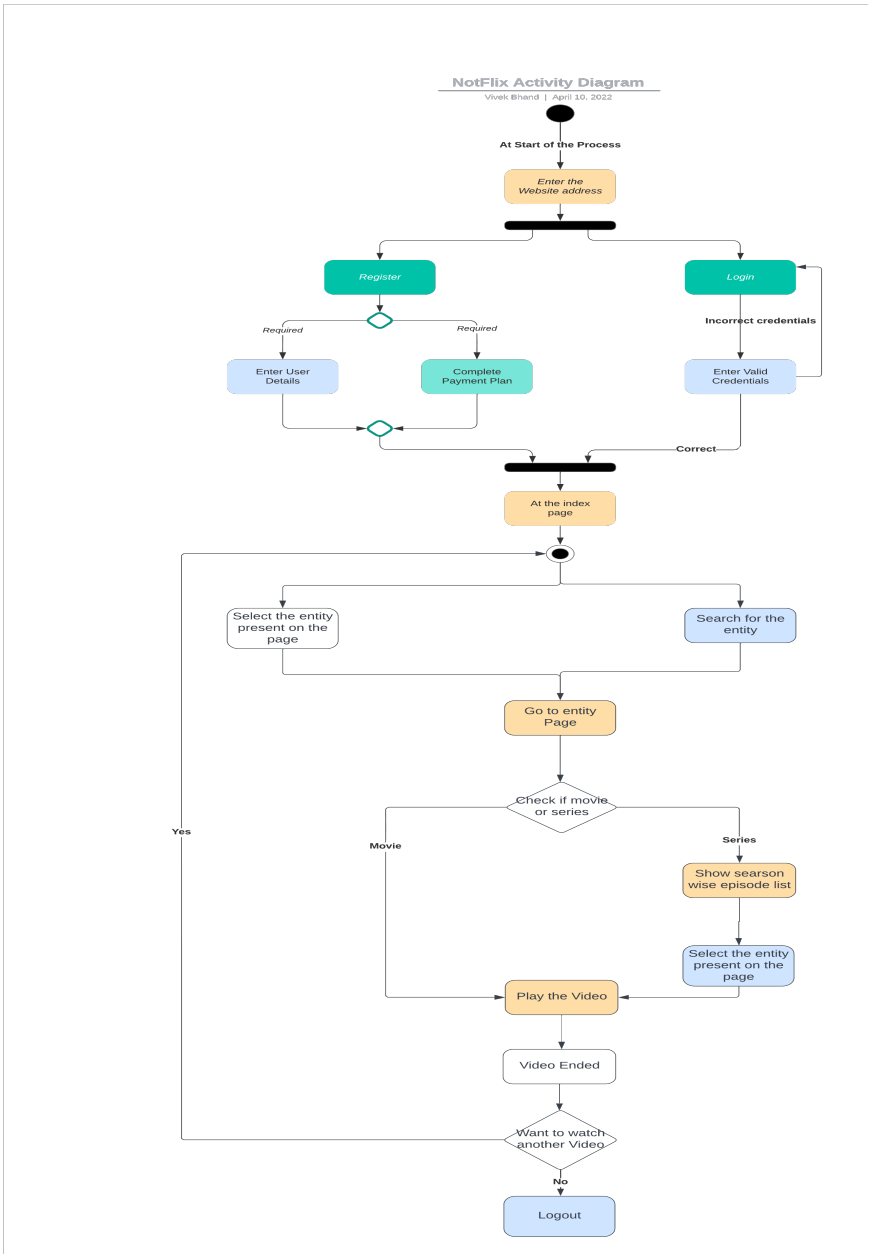
6.3 Work Flow



Workflow is the overview of the project. Connection of all the entities are dependable to each others. This gives the simple idea about the functional activities of the project.

7 UML Diagrams

7.1 Activity Diagram

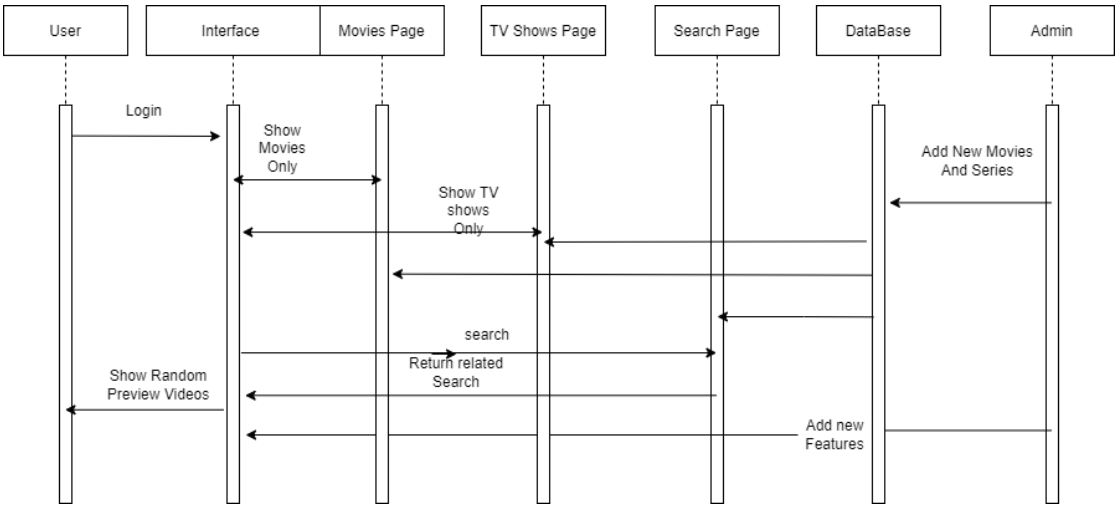


Activity Diagram

7.2 Class Diagram

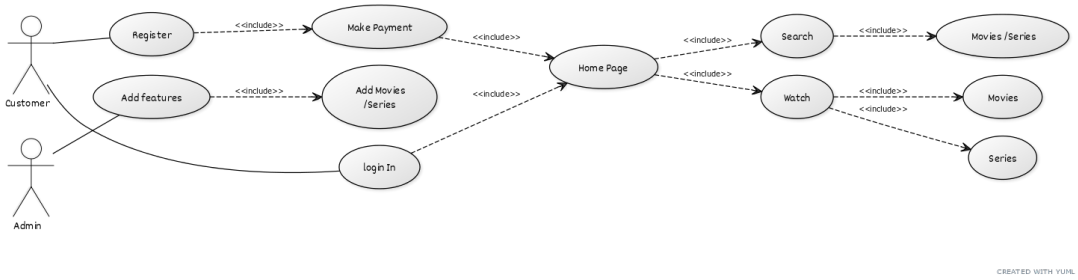
Activity Diagram

7.3 Sequence Diagram



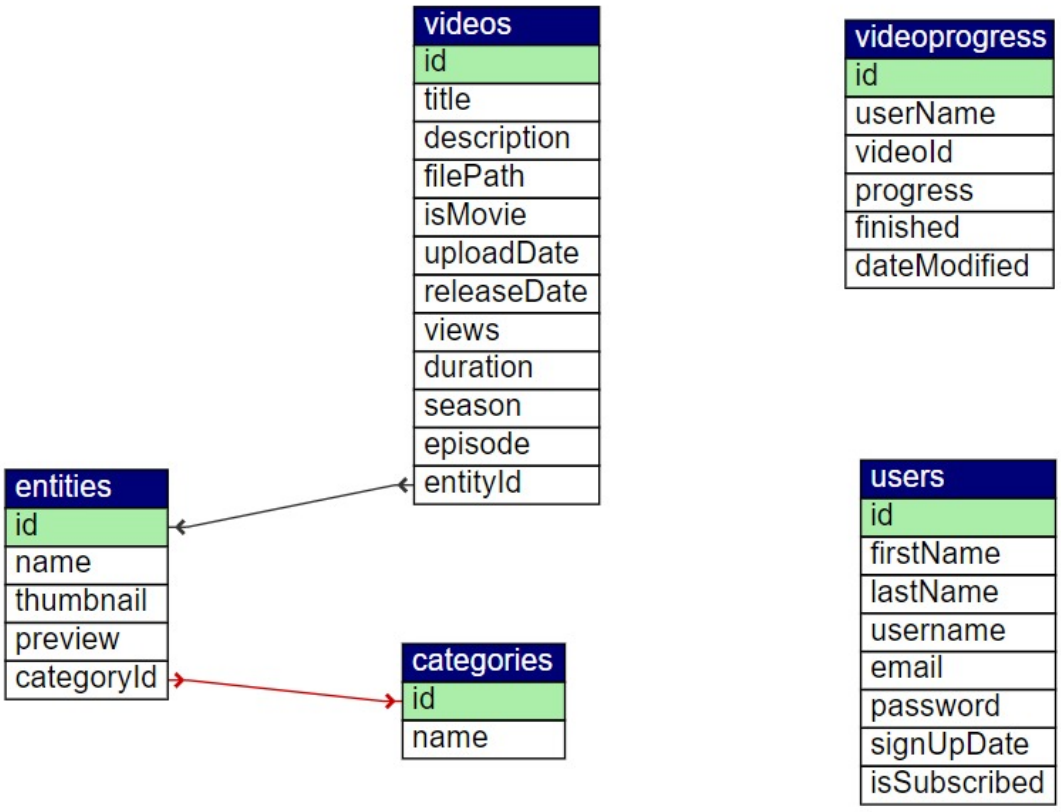
Sequence Diagram

7.4 User Case

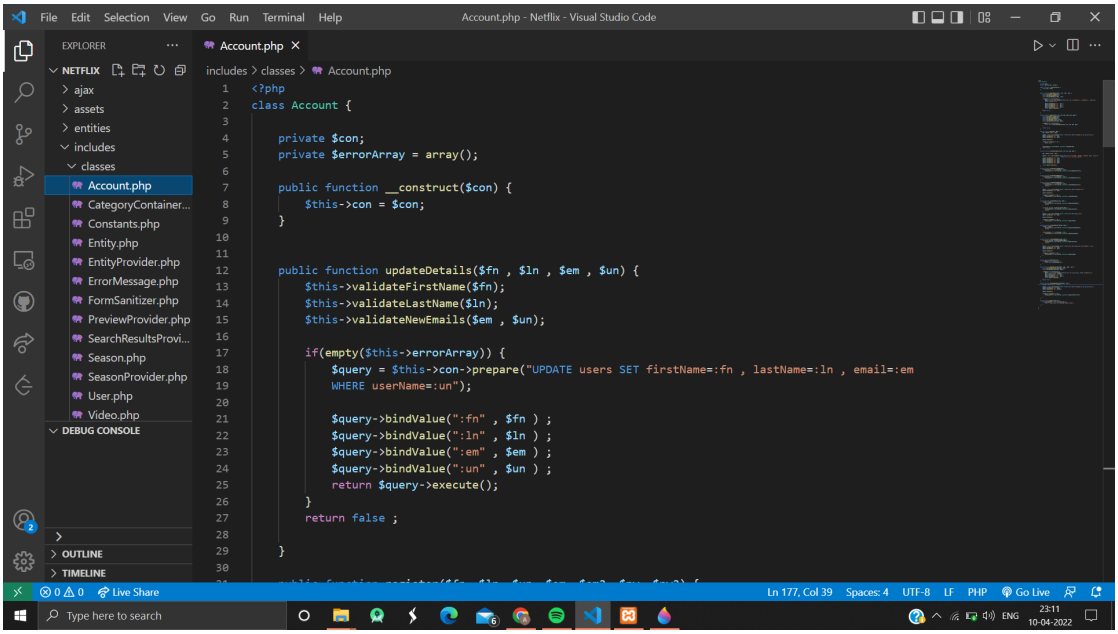


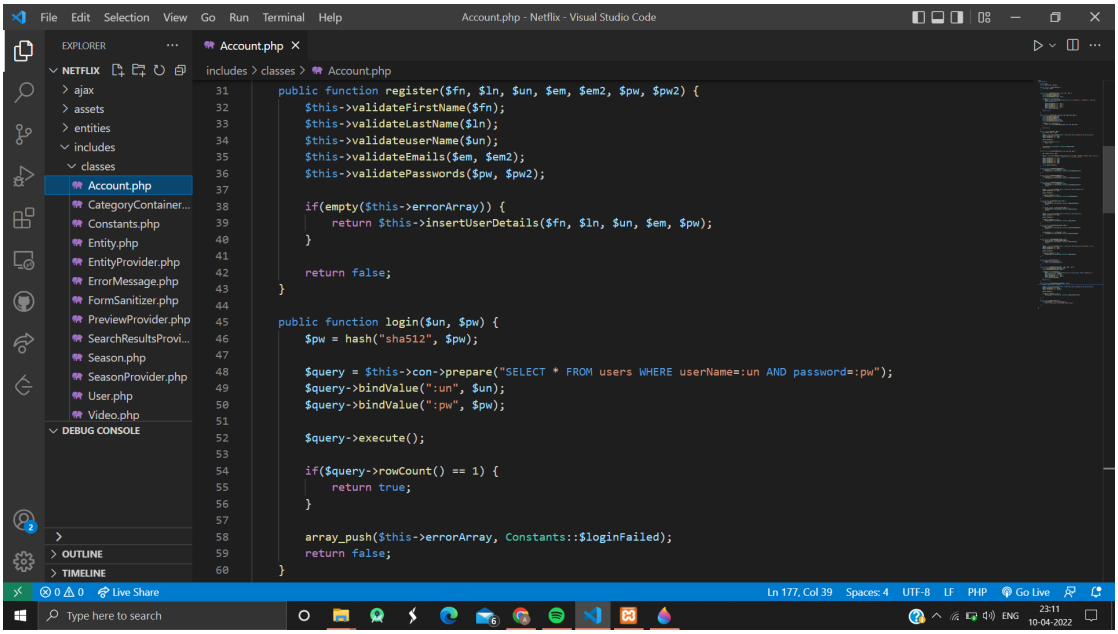
User Case

7.5 Entity Relationship Diagram



8 Code ScreenShots

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includes > classes > Account.php
31 public function register($fn, $ln, $un, $em, $em2, $pw, $pw2) {
32 $this->validateFirstName($fn);
33 $this->validateLastName($ln);
34 $this->validateuserName($un);
35 $this->validateEmails($em, $em2);
36 $this->validatePasswords($pw, $pw2);
37
38 if(empty($this->errorArray)) {
39 return $this->insertUserDetails($fn, $ln, $un, $em, $pw);
40 }
41
42 return false;
43 }
44
45 public function login($un, $pw) {
46 $pw = hash("sha512", $pw);
47
48 $query = $this->con->prepare("SELECT * FROM users WHERE userName=:un AND password=:pw");
49 $query->bindValue(":un", $un);
50 $query->bindValue(":pw", $pw);
51
52 $query->execute();
53
54 if($query->rowCount() == 1) {
55 return true;
56 }
57
58 array_push($this->errorArray, Constants::$loginFailed);
59 return false;
60 }
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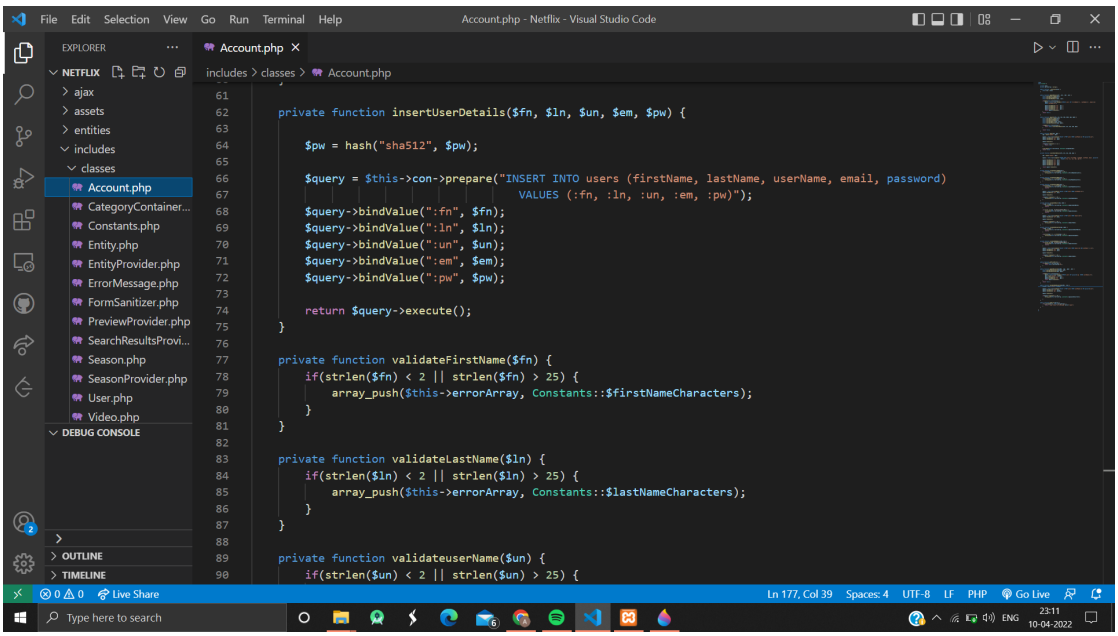
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Account.php
includes > classes > Account.php
62 private function insertUserDetails($fn, $ln, $un, $em, $pw) {
64 $pw = hash("sha512", $pw);
66 $query = $this->con->prepare("INSERT INTO users (firstName, lastName, userName, email, password)
67 VALUES (:fn, :ln, :un, :em, :pw)");
68 $query->bindValue(":fn", $fn);
69 $query->bindValue(":ln", $ln);
70 $query->bindValue(":un", $un);
71 $query->bindValue(":em", $em);
72 $query->bindValue(":pw", $pw);
74 return $query->execute();
75 }
77 private function validateFirstName($fn) {
78 if(strlen($fn) < 2 || strlen($fn) > 25) {
79 array_push($this->errorArray, Constants::$firstNameCharacters);
80 }
81 }
83 private function validateLastName($ln) {
84 if(strlen($ln) < 2 || strlen($ln) > 25) {
85 array_push($this->errorArray, Constants::$lastNameCharacters);
86 }
87 }
89 private function validateuserName($un) {
90 if(strlen($un) < 2 || strlen($un) > 25) {
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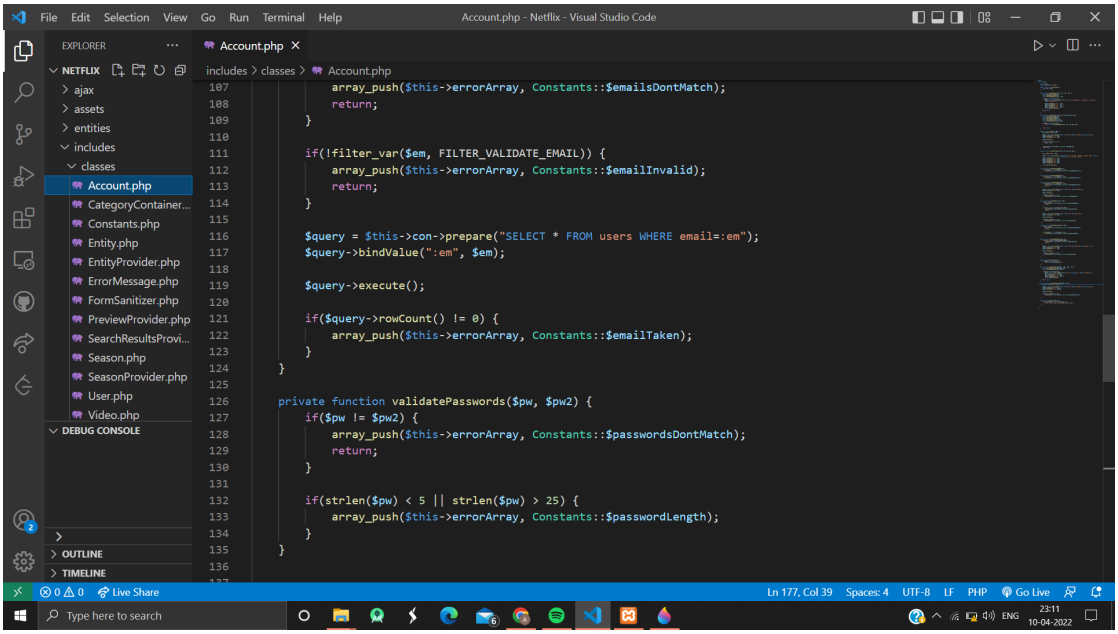
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array_push($this->errorArray, Constants::$emailsDontMatch);
return;
}
if(!filter_var($em, FILTER_VALIDATE_EMAIL)) {
array_push($this->errorArray, Constants::$emailInvalid);
return;
}
$query = $this->con->prepare("SELECT * FROM users WHERE email=:em");
$query->bindValue(":em", $em);
$query->execute();
if($query->rowCount() != 0) {
array_push($this->errorArray, Constants::$emailTaken);
}
}
private function validatePasswords($pw, $pw2) {
if($pw != $pw2) {
array_push($this->errorArray, Constants::$passwordsDontMatch);
return;
}
if(strlen($pw) < 5 || strlen($pw) > 25) {
array_push($this->errorArray, Constants::$passwordLength);
}
}
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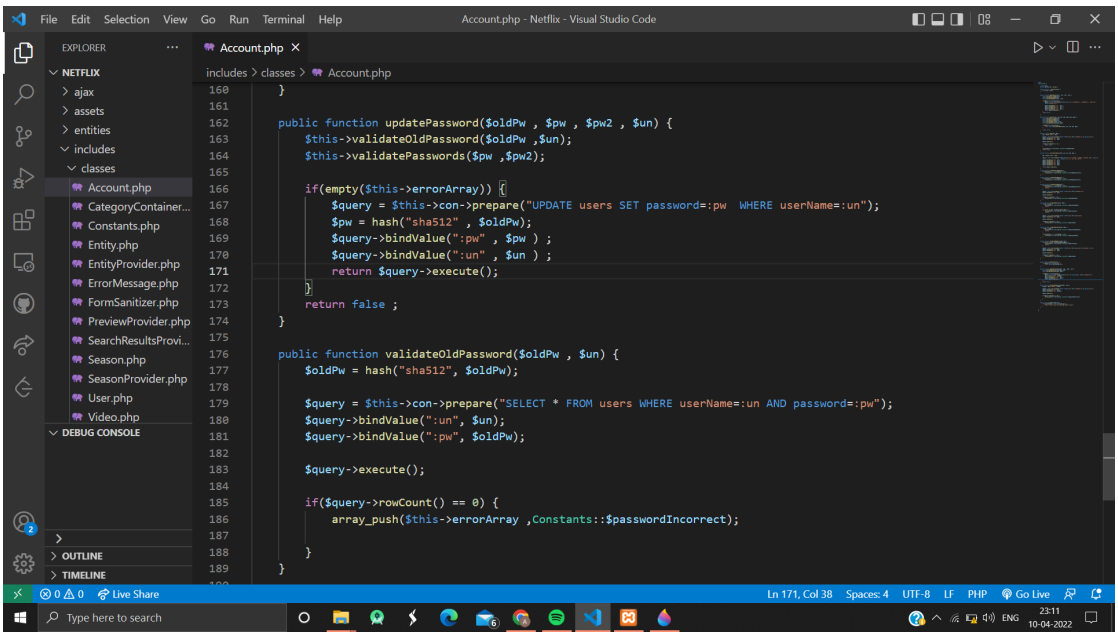
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}
public function updatePassword($oldPw , $pw , $pw2 , $un) {
$this->validateOldPassword($oldPw ,$un);
$this->validatePasswords($pw ,$pw2);
if(empty($this->errorArray)) {
$query = $this->con->prepare("UPDATE users SET password=:pw WHERE userName=:un");
$pw = hash("sha512" , $oldPw);
$query->bindValue(":pw" , $pw) ;
$query->bindValue(":un" , $un) ;
return $query->execute();
}
return false ;
}
public function validateOldPassword($oldPw , $un) {
$oldPw = hash("sha512", $oldPw);
$query = $this->con->prepare("SELECT * FROM users WHERE userName=:un AND password=:pw");
$query->bindValue(":un", $un);
$query->bindValue(":pw", $oldPw);
$query->execute();
if($query->rowCount() == 0) {
array_push($this->errorArray ,Constants::$passwordIncorrect);
}
}
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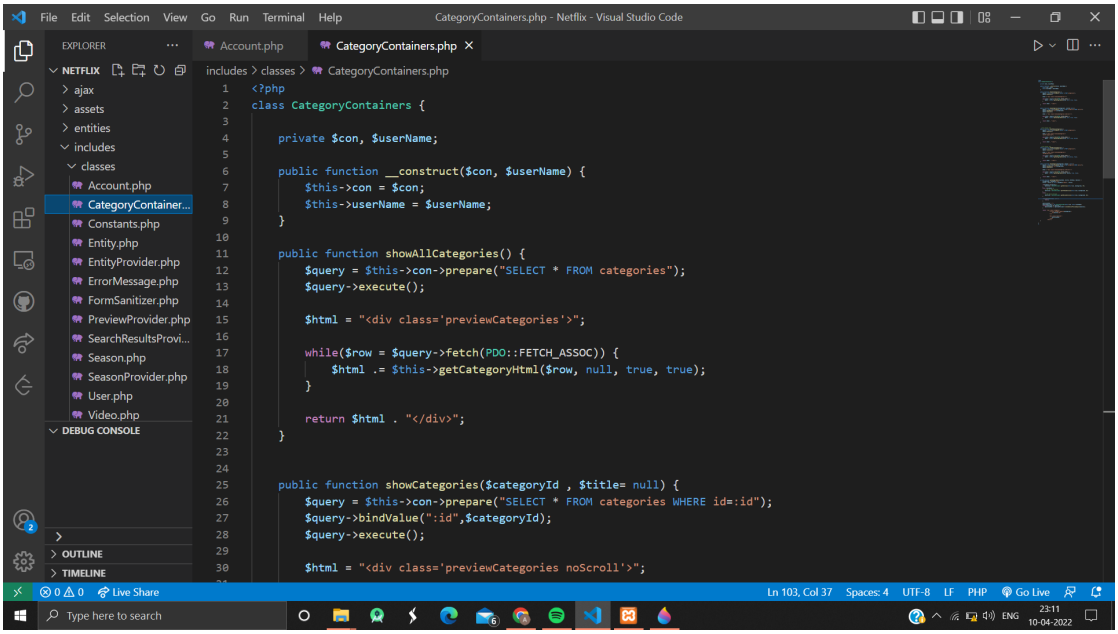
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includes > classes > CategoryContainers.php
<?php
class CategoryContainers {
private $con, $userName;
public function __construct($con, $userName) {
$this->con = $con;
$this->userName = $userName;
}
public function showAllCategories() {
$query = $this->con->prepare("SELECT * FROM categories");
$query->execute();
$html = " ";
while($row = $query->fetch(PDO::FETCH_ASSOC)) {
$html .= $this->getCategoryHtml($row, null, true, true);
}
return $html . " ";
}
public function showCategories($categoryId , $title= null) {
$query = $this->con->prepare("SELECT * FROM categories WHERE id=:id");
$query->bindValue(":id",$categoryId);
$query->execute();
$html = " ";
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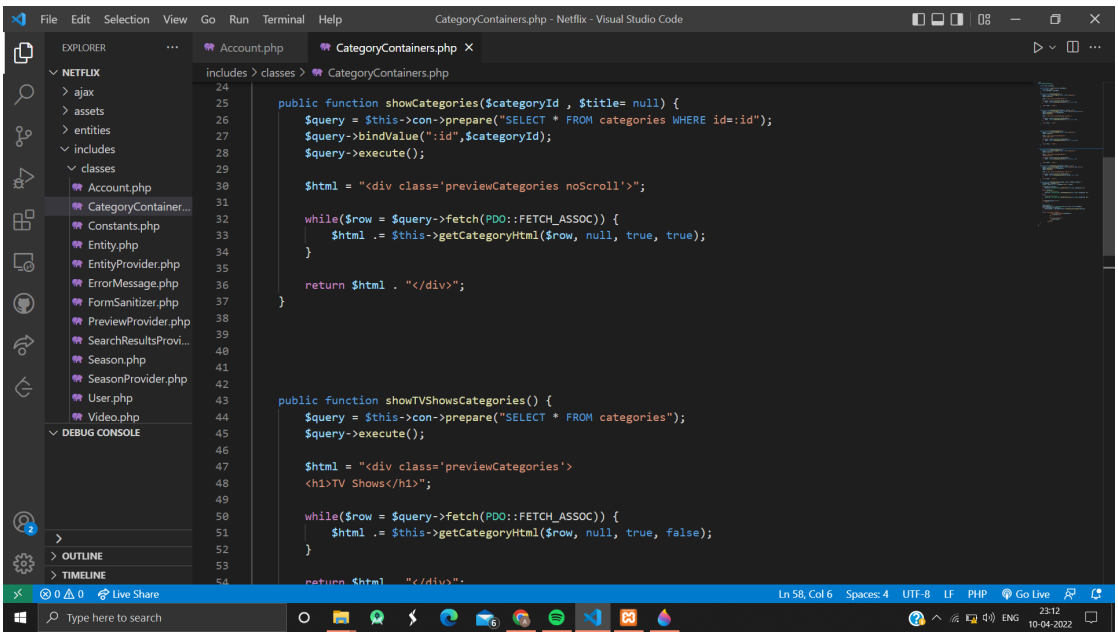
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public function showCategories($categoryId , $title= null) {
$query = $this->con->prepare("SELECT * FROM categories WHERE id=:id");
$query->bindValue(":id",$categoryId);
$query->execute();
$html = " ";
while($row = $query->fetch(PDO::FETCH_ASSOC)) {
$html .= $this->getCategoryHtml($row, null, true, true);
}
return $html . " ";
}
public function showTVShowsCategories() {
$query = $this->con->prepare("SELECT * FROM categories");
$query->execute();
$html = "
<h1>TV Shows</h1>";
while($row = $query->fetch(PDO::FETCH_ASSOC)) {
$html .= $this->getCategoryHtml($row, null, true, false);
}
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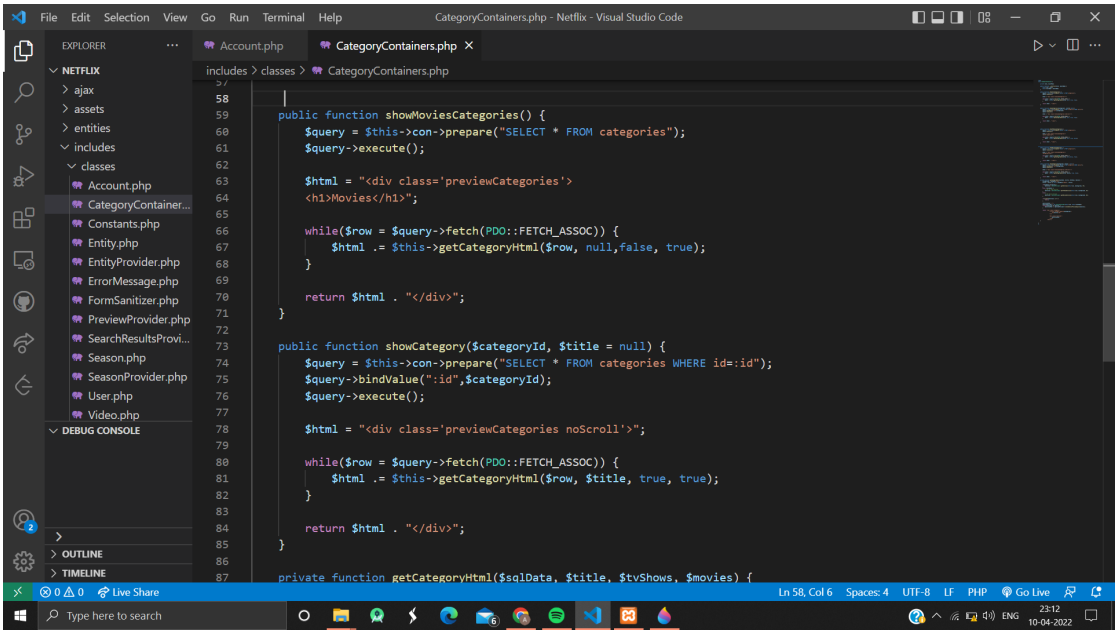
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58
59 public function showMoviesCategories() {
60 $query = $this->con->prepare("SELECT * FROM categories");
61 $query->execute();
62
63 $html = "
64 <h1>Movies</h1>";
65
66 while($row = $query->fetch(PDO::FETCH_ASSOC)) {
67 $html .= $this->getCategoryHtml($row, null,false, true);
68 }
69
70 return $html . " ";
71 }
72
73 public function showCategory($categoryId, $title = null) {
74 $query = $this->con->prepare("SELECT * FROM categories WHERE id=:id");
75 $query->bindValue(":id",$categoryId);
76 $query->execute();
77
78 $html = " ";
79
80 while($row = $query->fetch(PDO::FETCH_ASSOC)) {
81 $html .= $this->getCategoryHtml($row, $title, true, true);
82 }
83
84 return $html . " ";
85 }
86
87 private function getCategoryHtml($sqlData, $title, $tvShows, $movies) {
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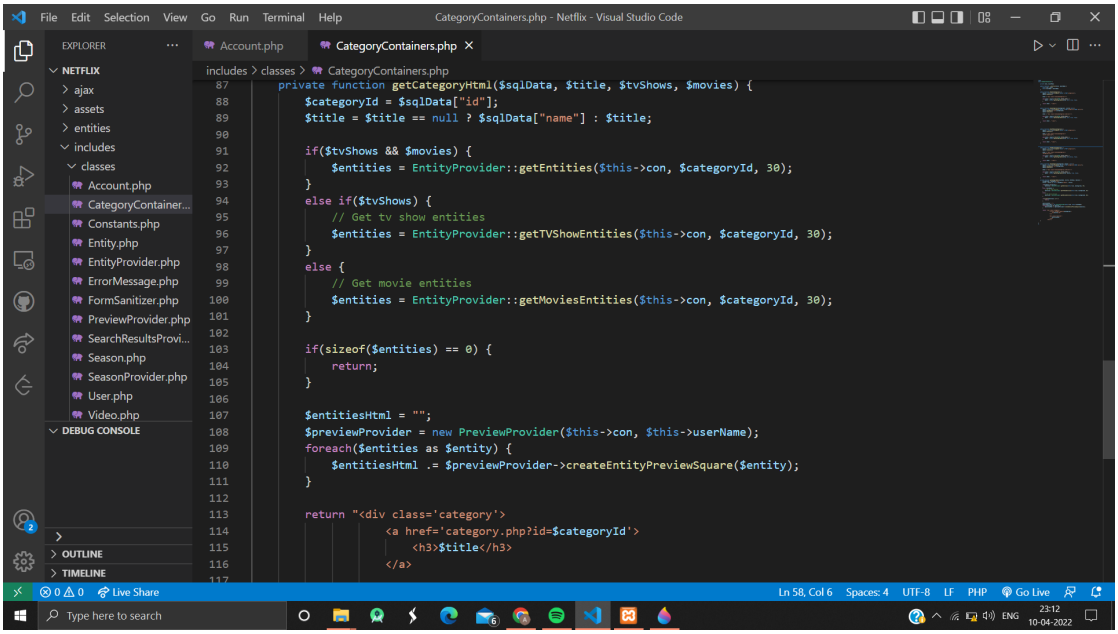
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DEBUG CONSOLE
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87 private function getCategoryHtml($sqlData, $title, $tvShows, $movies) {
88 $categoryId = $sqlData["id"];
89 $title = $title == null ? $sqlData["name"] : $title;
90
91 if($tvShows && $movies) {
92 $entities = EntityProvider::getEntities($this->con, $categoryId, 30);
93 }
94 else if($tvShows) {
95 // Get tv show entities
96 $entities = EntityProvider::getTVShowEntities($this->con, $categoryId, 30);
97 }
98 else {
99 // Get movie entities
100 $entities = EntityProvider::getMoviesEntities($this->con, $categoryId, 30);
101 }
102
103 if(sizeof($entities) == 0) {
104 return;
105 }
106
107 $entitiesHtml = "";
108 $previewProvider = new PreviewProvider($this->con, $this->userName);
109 foreach($entities as $entity) {
110 $entitiesHtml .= $previewProvider->createEntityPreviewSquare($entity);
111 }
112
113 return "
114
115 <h3>$title</h3>
116
117
Ln 58, Col 6 Spaces: 4 UTF-8 LF PHP Go Live
Type here to search
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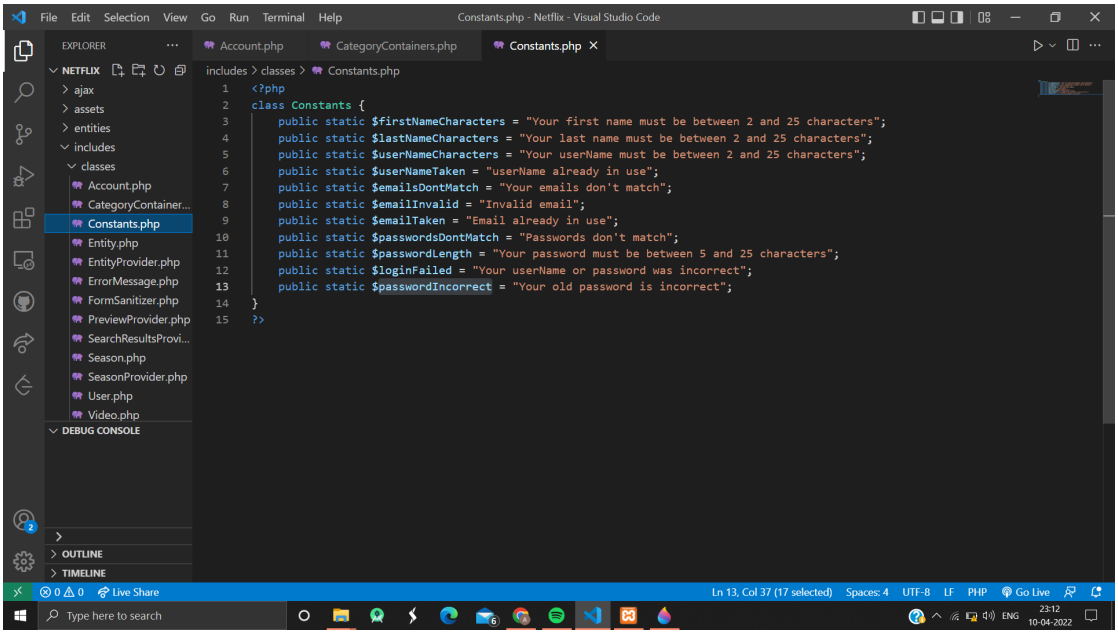
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Constants.php - Netflix - Visual Studio Code
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ErrorMessage.php
FormSanitizer.php
PreviewProvider.php
SearchResultsProvi...
Season.php
SeasonProvider.php
User.php
Video.php
DEBUG CONSOLE
OUTLINE
TIMELINE
Account.php
CategoryContainers.php
Constants.php
includes > classes > Constants.php
<?php
class Constants {
public static $firstNameCharacters = "Your first name must be between 2 and 25 characters";
public static $lastNameCharacters = "Your last name must be between 2 and 25 characters";
public static $userNameCharacters = "Your userName must be between 2 and 25 characters";
public static $userNameTaken = "userName already in use";
public static $emailsDontMatch = "Your emails don't match";
public static $emailInvalid = "Invalid email";
public static $emailTaken = "Email already in use";
public static $passwordsDontMatch = "Passwords don't match";
public static $passwordLength = "Your password must be between 5 and 25 characters";
public static $loginFailed = "Your userName or password was incorrect";
public static $passwordIncorrect = "Your old password is incorrect";
}
?>
Live Share
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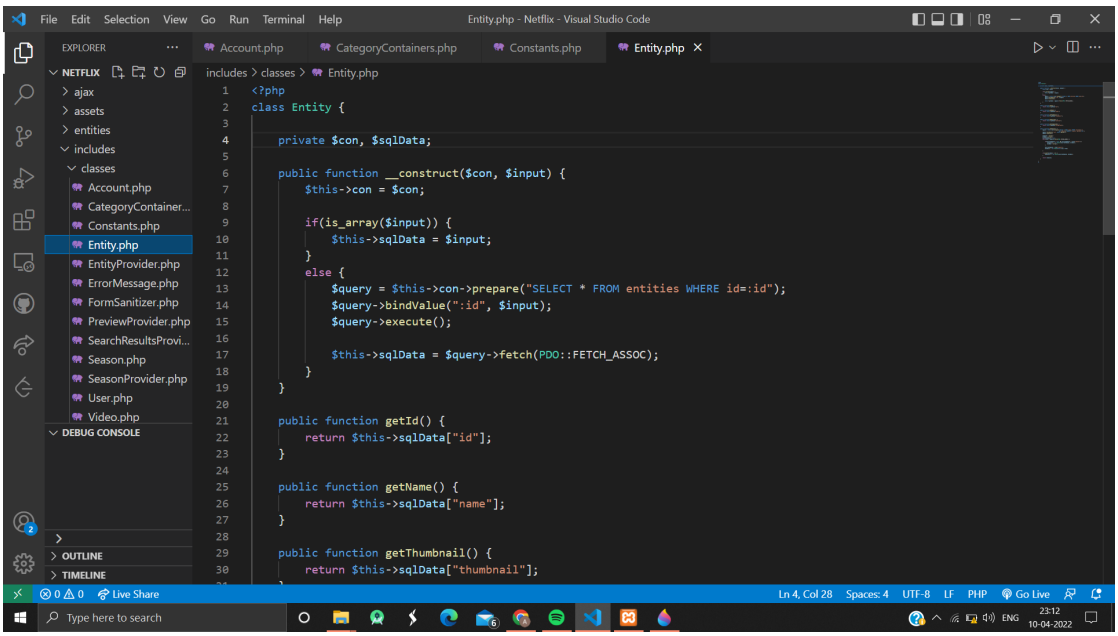
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Entity.php - Netflix - Visual Studio Code
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Video.php
DEBUG CONSOLE
OUTLINE
TIMELINE
Account.php
CategoryContainers.php
Constants.php
Entity.php
includes > classes > Entity.php
<?php
class Entity {
private $con, $sqlData;
public function __construct($con, $input) {
$this->con = $con;
if(is_array($input)) {
$this->sqlData = $input;
}
else {
$query = $this->con->prepare("SELECT * FROM entities WHERE id=:id");
$query->bindValue(":id", $input);
$query->execute();
$this->sqlData = $query->fetch(PDO::FETCH_ASSOC);
}
}
public function getId() {
return $this->sqlData["id"];
}
public function getName() {
return $this->sqlData["name"];
}
public function getThumbnail() {
return $this->sqlData["thumbnail"];
Live Share
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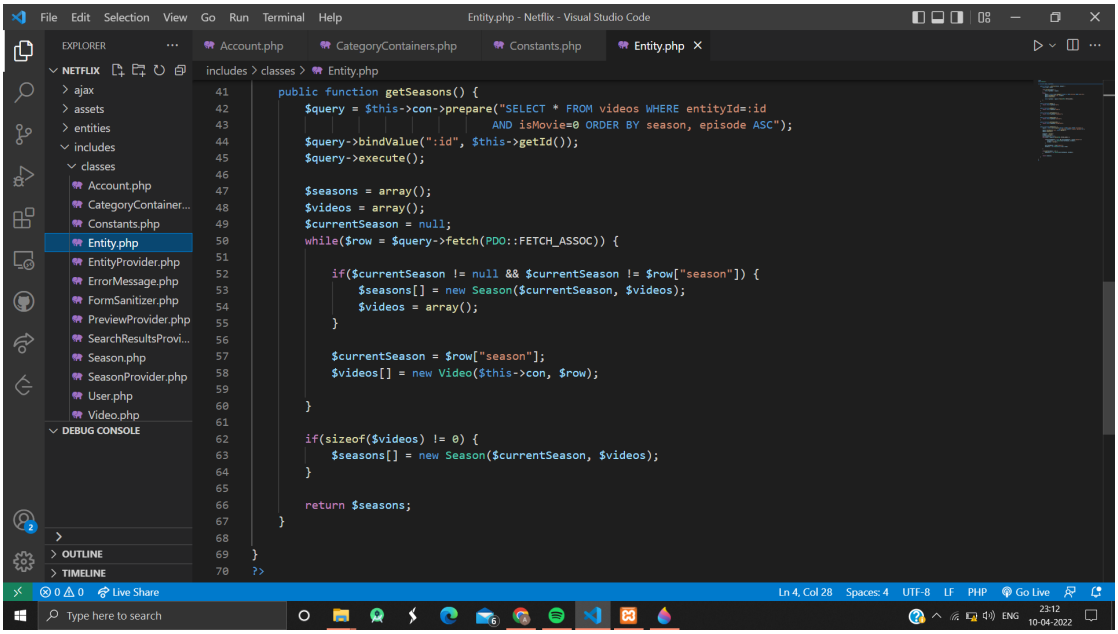
Entity.php - Netflix - Visual Studio Code
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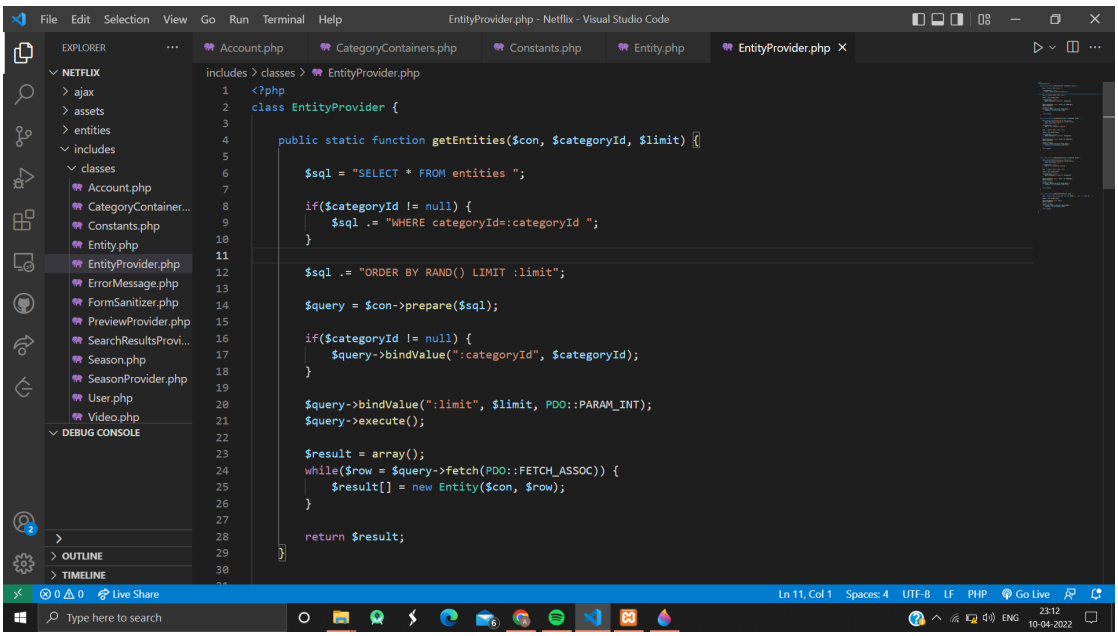
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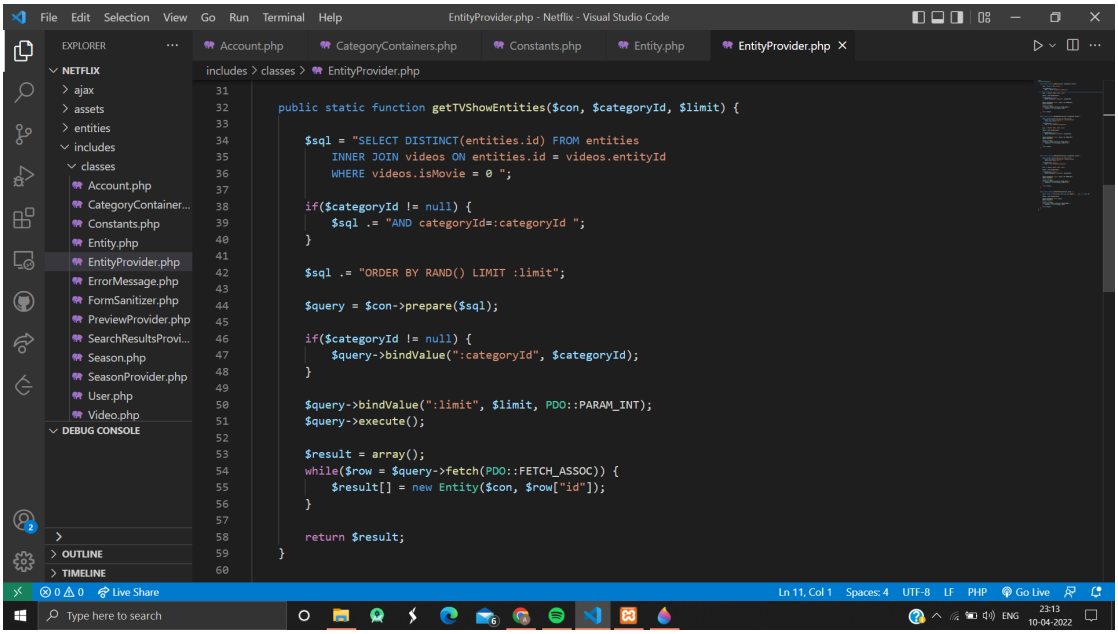
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EntityProvider.php - Netflix - Visual Studio Code
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Video.php
DEBUG CONSOLE
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Account.php
CategoryContainers.php
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Entity.php
EntityProvider.php
includes > classes > EntityProvider.php
public static function getTVShowEntities($con, $categoryId, $limit) {
$sql = "SELECT DISTINCT(entities.id) FROM entities
INNER JOIN videos ON entities.id = videos.entityId
WHERE videos.isMovie = 0 ";
if($categoryId != null) {
$sql .= "AND categoryId=:categoryId ";
}
$sql .= "ORDER BY RAND() LIMIT :limit";
$query = $con->prepare($sql);
if($categoryId != null) {
$query->bindValue(":categoryId", $categoryId);
}
$query->bindValue(":limit", $limit, PDO::PARAM_INT);
$query->execute();
$result = array();
while($row = $query->fetch(PDO::FETCH_ASSOC)) {
$result[] = new Entity($con, $row["id"]);
}
return $result;
}
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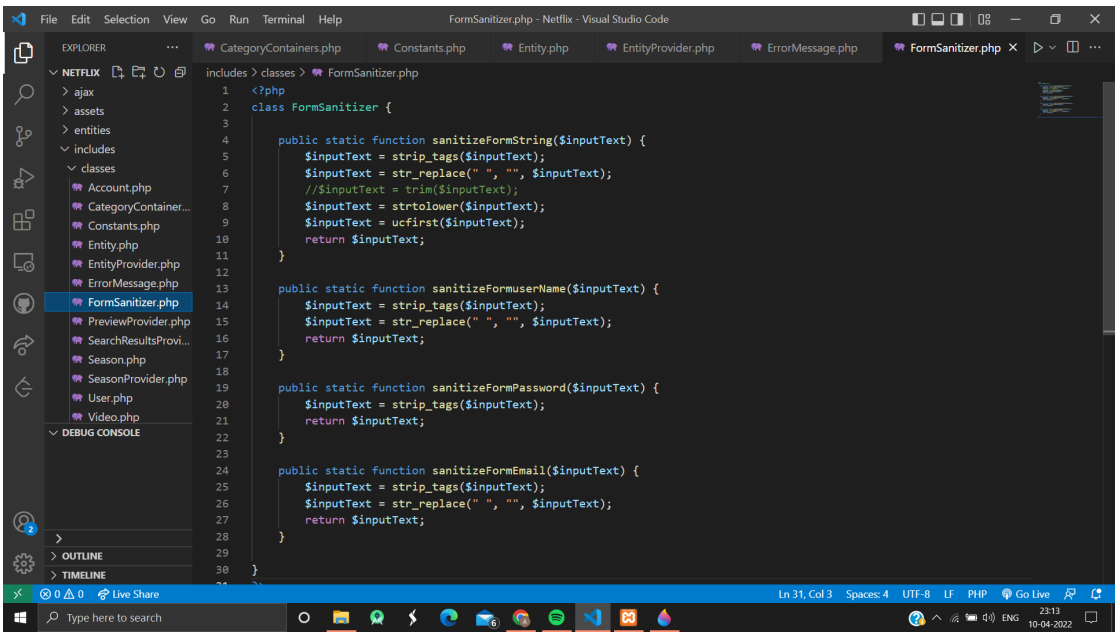
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FormSanitizer.php - Netflix - Visual Studio Code
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CategoryContainers.php
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EntityProvider.php
ErrorMessage.php
FormSanitizer.php
includes > classes > FormSanitizer.php
<?php
class FormSanitizer {
public static function sanitizeFormString($inputText) {
$inputText = strip_tags($inputText);
$inputText = str_replace(" ", "", $inputText);
//$inputText = trim($inputText);
$inputText = strtolower($inputText);
$inputText = ucfirst($inputText);
return $inputText;
}
public static function sanitizeFormusername($inputText) {
$inputText = strip_tags($inputText);
$inputText = str_replace(" ", "", $inputText);
return $inputText;
}
public static function sanitizeFormPassword($inputText) {
$inputText = strip_tags($inputText);
return $inputText;
}
public static function sanitizeFormEmail($inputText) {
$inputText = strip_tags($inputText);
$inputText = str_replace(" ", "", $inputText);
return $inputText;
}
}
Live Share
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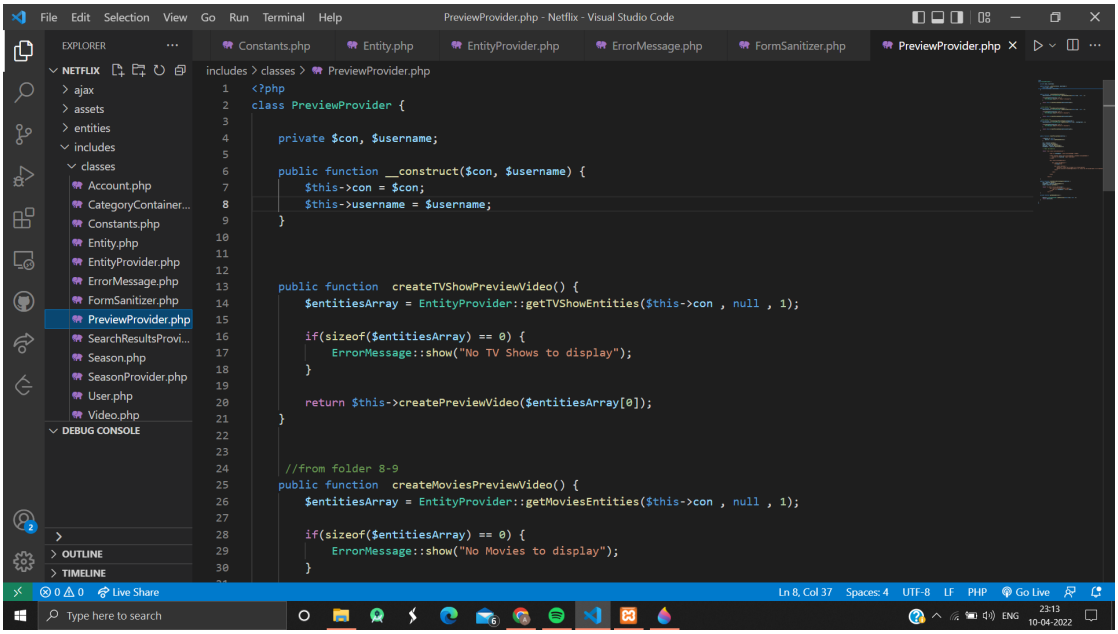
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PreviewProvider.php - Netflix - Visual Studio Code
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EntityProvider.php
ErrorMessage.php
FormSanitizer.php
PreviewProvider.php
includes > classes > PreviewProvider.php
<?php
class PreviewProvider {
private $con, $username;
public function __construct($con, $username) {
$this->con = $con;
$this->username = $username;
}
public function createTVShowPreviewVideo() {
$entitiesArray = EntityProvider::getTVShowEntities($this->con , null , 1);
if(sizeof($entitiesArray) == 0) {
ErrorMessage::show("No TV Shows to display");
}
return $this->createPreviewVideo($entitiesArray[0]);
}
//from folder 8-9
public function createMoviesPreviewVideo() {
$entitiesArray = EntityProvider::getMoviesEntities($this->con , null , 1);
if(sizeof($entitiesArray) == 0) {
ErrorMessage::show("No Movies to display");
}
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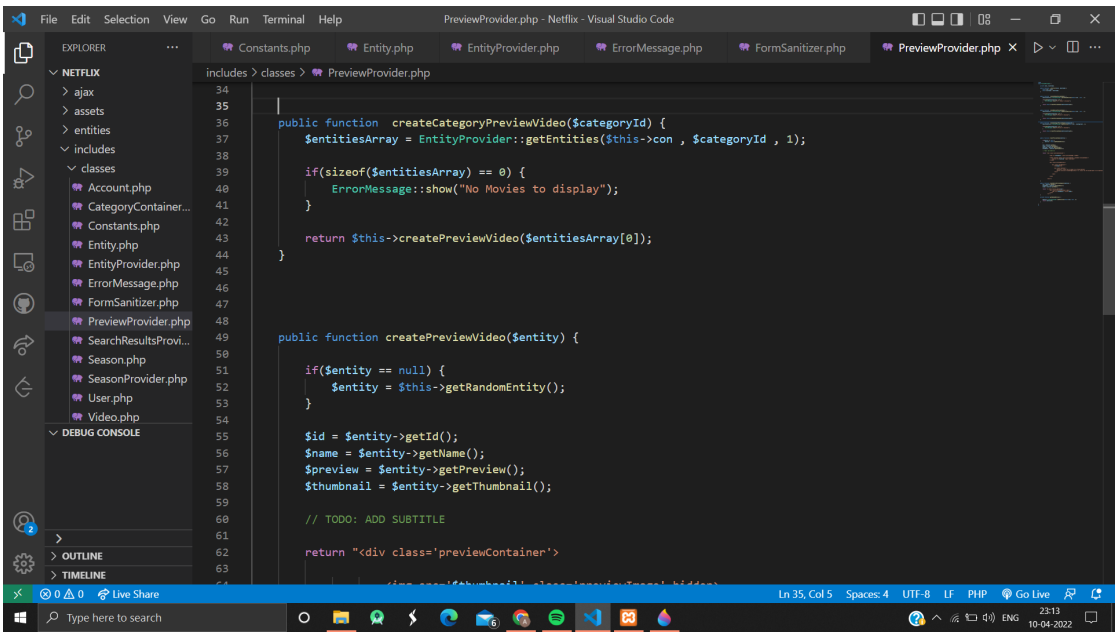
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PreviewProvider.php - Netflix - Visual Studio Code
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DEBUG CONSOLE
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ErrorMessage.php
FormSanitizer.php
PreviewProvider.php
includes > classes > PreviewProvider.php
public function createCategoryPreviewVideo($categoryId) {
$entitiesArray = EntityProvider::getEntities($this->con , $categoryId , 1);
if(sizeof($entitiesArray) == 0) {
ErrorMessage::show("No Movies to display");
}
return $this->createPreviewVideo($entitiesArray[0]);
}
public function createPreviewVideo($entity) {
if($entity == null) {
$entity = $this->getRandomEntity();
}
$id = $entity->getId();
$name = $entity->getName();
$preview = $entity->getPreview();
$thumbnail = $entity->getThumbnail();
// TODO: ADD SUBTITLE
return "
Ln 35, Col 5 Spaces: 4 UTF-8 LF PHP Go Live
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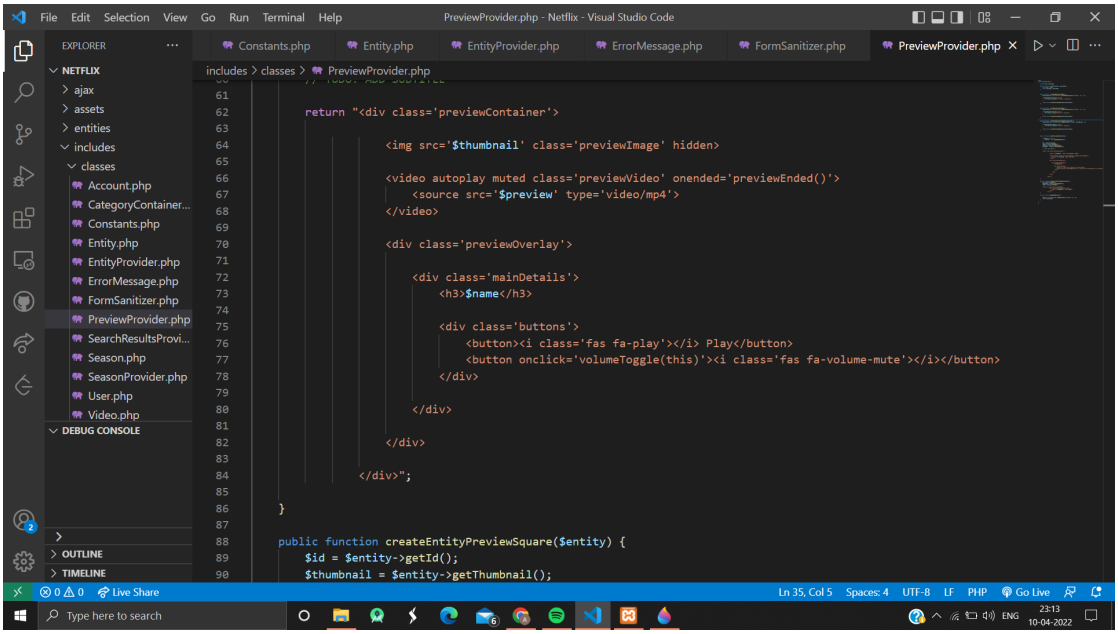
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PreviewProvider.php - Netflix - Visual Studio Code
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DEBUG CONSOLE
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Entity.php
EntityProvider.php
ErrorMessage.php
FormSanitizer.php
PreviewProvider.php
includes > classes > PreviewProvider.php
return "
<img src='$thumbnail' class='previewImage' hidden>
<video autoplay muted class='previewVideo' onended='previewEnded()'>
<source src='$preview' type='video/mp4'>
</video>

<h3>$name</h3>

<button> Play</button>
<button onclick='volumeToggle(this)'></button>

";
}
public function createEntityPreviewSquare($entity) {
$id = $entity->getId();
$thumbnail = $entity->getThumbnail();
Ln 35, Col 5 Spaces: 4 UTF-8 LF PHP Go Live
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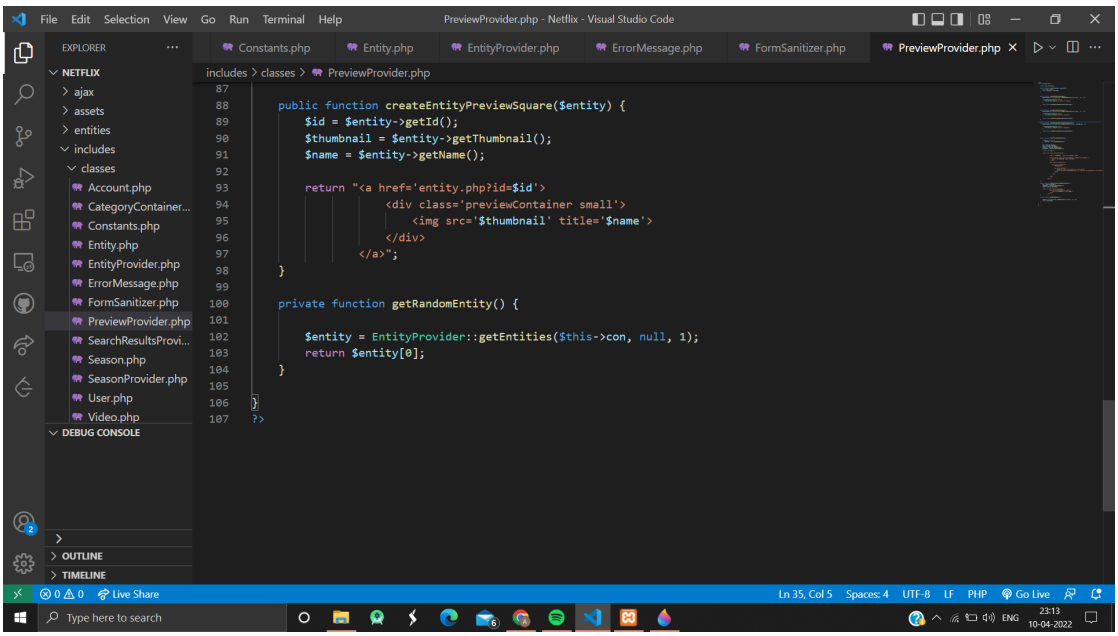
10-04-2022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PreviewProvider.php
includes > classes > PreviewProvider.php
public function createEntityPreviewSquare($entity) {
$id = $entity->getId();
$thumbnail = $entity->getThumbnail();
$name = $entity->getName();
return "

<img src='$thumbnail' title='$name'>

";
}
private function getRandomEntity() {
$entity = EntityProvider::getEntities($this->con, null, 1);
return $entity[0];
}
}
?>
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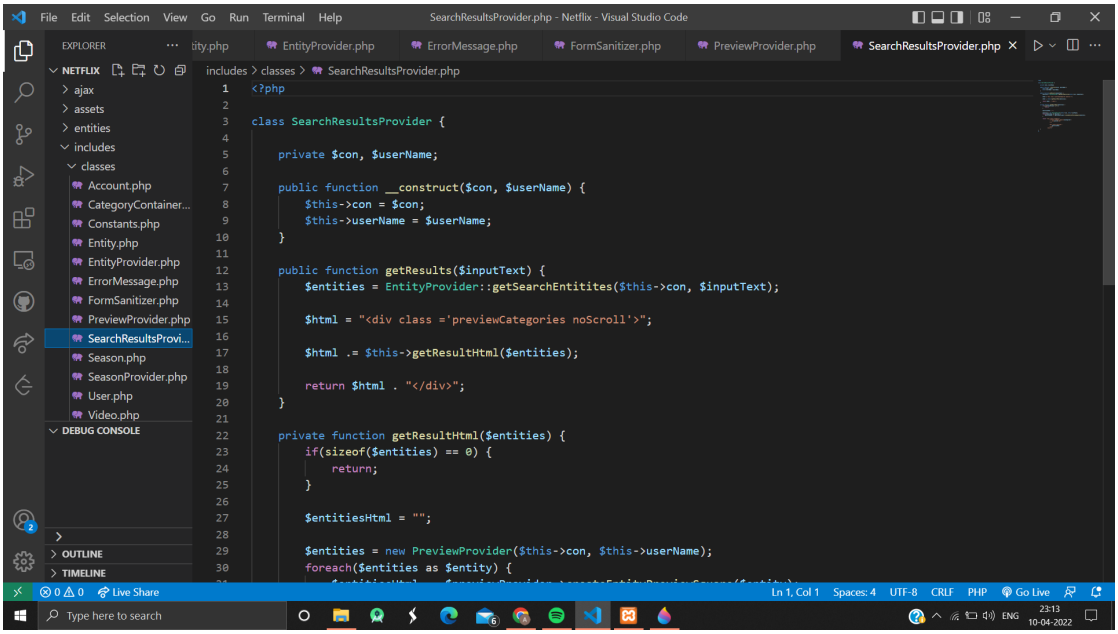
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SearchResultsProvider.php - Netflix - Visual Studio Code
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DEBUG CONSOLE
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TIMELINE
EntityProvider.php
ErrorMessage.php
FormSanitizer.php
PreviewProvider.php
SearchResultsProvider.php
includes > classes > SearchResultsProvider.php
<?php
class SearchResultsProvider {
private $con, $userName;
public function __construct($con, $userName) {
$this->con = $con;
$this->userName = $userName;
}
public function getResults($inputText) {
$entities = EntityProvider::getSearchEntitites($this->con, $inputText);
$html = " ";
$html .= $this->getResultHtml($entities);
return $html . " ";
}
private function getResultHtml($entities) {
if(sizeof($entities) == 0) {
return;
}
$entitiesHtml = "";
$entities = new PreviewProvider($this->con, $this->userName);
foreach($entities as $entity) {
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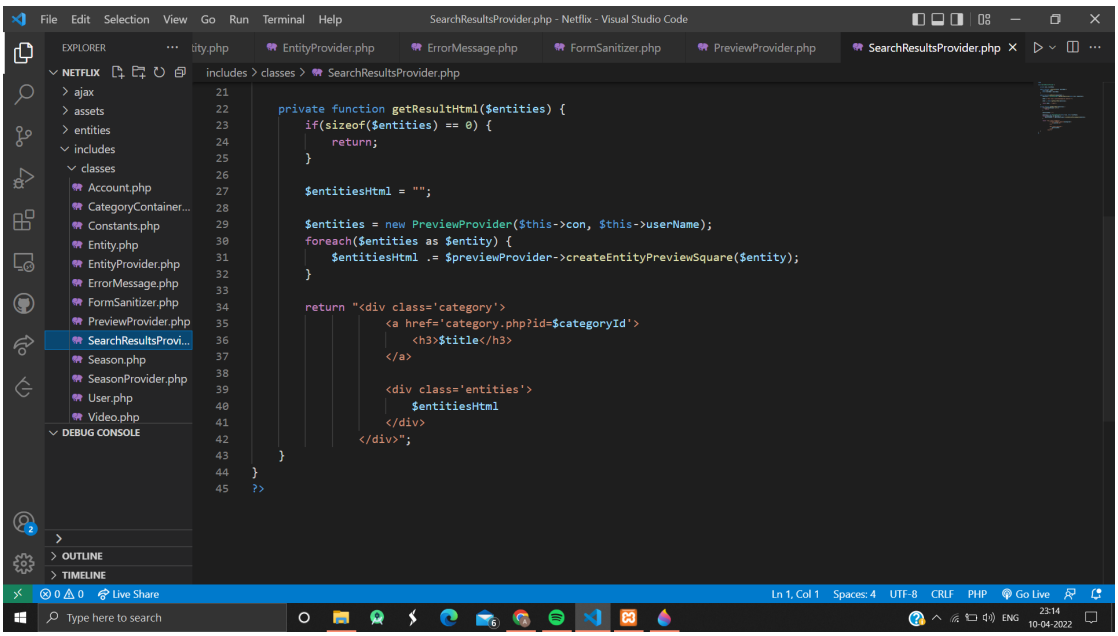
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SearchResultsProvider.php - Netflix - Visual Studio Code
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PreviewProvider.php
SearchResultsProvider.php
includes > classes > SearchResultsProvider.php
private function getResultHtml($entities) {
if(sizeof($entities) == 0) {
return;
}
$entitiesHtml = "";
$entities = new PreviewProvider($this->con, $this->userName);
foreach($entities as $entity) {
$entitiesHtml .= $previewProvider->createEntityPreviewSquare($entity);
}
return "

<h3>$title</h3>

$entitiesHtml

";
}
}
?>
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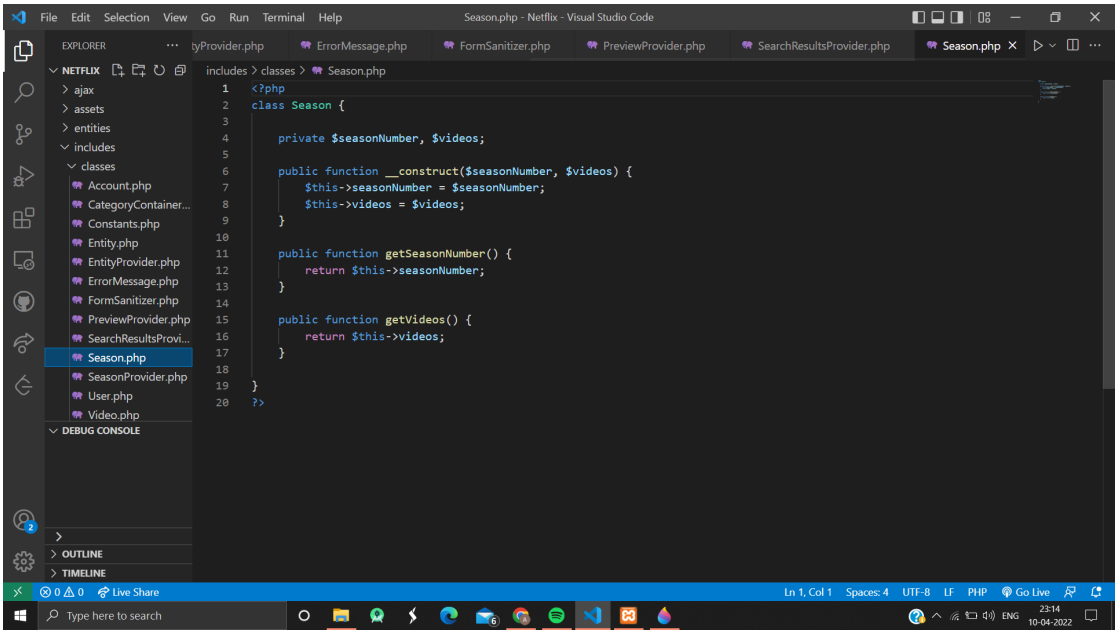
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Season.php - Netflix - Visual Studio Code
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DEBUG CONSOLE
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ErrorMessage.php
FormSanitizer.php
PreviewProvider.php
SearchResultsProvider.php
Season.php
includes > classes > Season.php
<?php
class Season {
private $seasonNumber, $videos;
public function __construct($seasonNumber, $videos) {
$this->seasonNumber = $seasonNumber;
$this->videos = $videos;
}
public function getSeasonNumber() {
return $this->seasonNumber;
}
public function getVideos() {
return $this->videos;
}
}
?>
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9 Future Scope

Currently our project is constrained by Cost and Time factors in development. But in the future, with enough efforts it can be developed and more improved.

1. **Desktop Application Software** Now, we have implemented our Streaming platform as Website. But in the future it can be ported in to as application software in Windows, Linux or Mac, etc.
2. **Mobile Application** It can be developed into mobile application for more ease of usage.
3. **More available Content** With enough resources we can provide our user more cheap content to watch with smooth user experience.

10 Conclusion

We learned quite a few new things through the project.

Problem Identification and Analysis: From the state of the art survey, we identified a need of a more user friendly cheap alternative to OTT platforms. We attempted to recreate a more popular site with less cost.

Knowledge of Software Development Techniques: We discovered and learned various SDLC (Software Development Life Cycle) and Testing models.

Collaboration: We learned to collaborate between two developers working on same project

Project Planning and Workflow: We learned how to planned a project beforehand and follow accordingly with selected model.

Project Documentation: We created Gantt diagrams and Workflow diagrams for suitable planning of the project. We developed UML diagrams for suitable maintaince of the project.

Project Completion within Deadline: We successfully created a complete Online Streaming Site.

11 GitHub Repository Link

Project GitHub Link : https://github.com/amanjpatil/Notflix