

A9: High-level architecture. Privileges. Web resources specification

General overview

M01: Administration	Web resources associated with user and product management, specifically: view all users, delete or ban user accounts, view and change user information, view, add, delete and edit products.
M02: Authentication	Web resources associated with user authentication, includes the following system features: login/logout and registration.
M03: User Details	Web resources associated with individual profile management, includes the following system features: view and edit personal profile information.
M04: Movie Overview	Web resources associated with movie profile and related actions, including: adding to wishlist, adding to cart and reviewing a movie.
M05: Purchase	Web resources associated with purchasing products.
M06: Shop	Web resources associated with listing, searching and filtering movies on shop.

Permission

PUB	Public	Non authenticated users
ADM	Administrator	Administrator group
USR	User	Authenticated user
OWN	Owner	Own User (<i>owner or same user</i>)

Modules

R001: Homepage

URL	/pages/index.php
Description	Homepage of the website. Lists featured products.
Method	GET
UI	UI01
SQL	SQL001
Permissions	PUB

Module M01: Administration

R101: Administrator's Page

URL	/pages/admin.php
Description	Lists all movies and users on the website that the Admin can manage.
Method	GET
AJAX Calls	R105 , R106

UI	UI07 , UI08
SQL	SQL101.1 , SQL101.2
Permissions	ADM

R102: Add movie form

URL	/pages/movie-add.php
Description	Shows page with form fields to add a movie to database.
Permissions	ADM

R103: Add user form

URL	/pages/user-add.php
Description	Shows page with form fields to add a user to database.
Permissions	ADM

R105: Delete User

URL	/api/user-delete.php	
Description	The Admin will be able to delete a user from the database.	
Method	POST	
Parameters	+id: Integer	User ID.
Returns	200 OK	Success
	404 Not Found	Error
SQL	SQL105	
Permissions	ADM	

R106: Delete Movie

URL	/api/movie-delete.php	
Description	The Admin will be able to delete a movie from the database.	
Method	POST	
Parameters	+id: Integer	Movie ID.
Returns	200 OK	Success
	404 Not Found	Error
SQL	SQL106	
Permissions	ADM	

R107: Add Movie

URL	/action/movie-add.php	
Description	The Admin will be able to add a new movie to the database.	
Method	POST	
Parameters	+INSERT	Insert a new entry to the movie's table
Redirects	R401	Success
	R107	Error
SQL	SQL107	
Permissions	ADM	

R108: Edit Movie

URL	/action/movie-edit.php	
Description	The Admin will be able to edit all movie details.	
Method	POST	
Parameters	+id: Integer	Movie ID.
	+classification: Integer	Movie's PEGI classification.
	?description: text	Movie's description.
	+imagePath: String	Movie's image path.
	+name: String	Movie's name.
	+numberOfDiscs: Integer	Movie's number of discs.
	+price: Integer	Movie's price.
	+region: String	Movie's region.
	?releaseDate: Date	Movie's release date.
	+runtime: Integer	Movie's total runtime.
	+stock: Integer	Stock.
	+formatID: Integer	Movie's Format ID.
	+studioID: Integer	Movie's Studio ID.
	+genreID: Integer	Movie's Genre ID.
Redirects	R401	Success
	R108	Error
SQL	SQL108	
Permissions	ADM	

R109: Add User

URL	/action/user-add.php	
Description	The Admin will be able to add new users to database.	
Method	POST	
Parameters	+INSERT	Insert a new entry to the user's table
Redirects	R109	Success
	R109	Error
SQL	SQL109	
Permissions	ADM	

R110: Edit User

URL	/action/user-edit.php	
Description	The Admin will be able to edit the basic information details about a certain user.	
Method	POST	
Parameters	+id: Integer	User ID.
	+email: String	User's email.
	+firstName: String	User's first name.
	+lastName: String	User's last name.
	+password: String	User's password.
Redirects	R110	Success
	R110	Error

SQL	SQL110
Permissions	ADM

Module M02: Authentication

R201: Login/Register form

URL	/pages/login.php
Descrição	Shows both register and login forms
UI	UI02
Permissions	PUB

R202: Login

URL	/actions/login.php	
Descrição	Form in which will be possible to a user to log in.	
Method	POST	
Parameters	+email: String	User's email
	+password: String	User's password
Redirects	R001	Success
	R202	Error
SQL	SQL202	
Permissions	PUB	

R203: Register

URL	/actions/register.php	
Descrição	Form in which will be possible to register a new user.	
Method	POST	
Parameters	+firstName: String	User's first name
	+lastName: String	User's last name
	+email: String	User's email
	+password: String	User's password
Redirects	R001	Success
	R203	Error
SQL	SQL203	
Permissions	PUB	

Module M03: User Details

R301: Add Billing Information

URL	/action/billinginfo-add.php	
Description	Add Billing Information	
Method	POST	
Parameters	+INSERT	Insert a new entry to the billing information's table
Redirects	R308	Success

	R301	Error
SQL	SQL301	
Permissions	OWN	

R302: Edit Billing Information

URL	/action/billinginfo-edit.php	
Description	Edit Billing Information	
Method	POST	
	+id: Integer	The ID of the Billing Information to edit.
	?cityID: Integer	The ID of the City.
	?countryID: Integer	The ID of the Country.
	?postcodeID: Integer	The ID of the Post-Code.
	?address: String	The address where to send the bill.
	?fullName: String	The full name of the user.
Redirects	R308	Success
	R302	Error
SQL	SQL302	
Permissions	OWN	

R303: Add Delivery Address

URL	/action/deliveryaddress-add.php	
Description	Add Delivery Address	
Method	POST	
	+cityID: Integer	The ID of the City.
	+countryID: Integer	The ID of the Country.
	+postcodeID: Integer	The ID of the Post-Code.
	+address: String	The address where to send the movie.
	+fullName: String	The full name of the user.
Redirects	R308	Success
	R303	Error
SQL	SQL303	
Permissions	OWN	

R304: Edit Delivery Address

URL	/action/deliveryaddress-edit.php	
Description	Edit Delivery Address	
Method	POST	
Parameters	+id: Integer	The ID of the Delivery Address.
	?cityID: Integer	The ID of the City.
	?countryID: Integer	The ID of the Country.
	?postcodeID: Integer	The ID of the Post-Code.
	?address: String	The address where to deliver the movie.
	?fullName: String	The full name of the user.
Redirects	R308	Success
	R304	Error

SQL	SQL304
Permissions	OWN

R305: Add Payment Information

URL	/action/paymentinfo-add.php	
Description	Add Payment Information	
Method	POST	
Parameters	+INSERT	Insert a new entry to the payment information's table
Redirects	R308	Success
	R305	Error
SQL	SQL305	
Permissions	OWN	

R306: Edit Payment Information

URL	/action/paymentinfo-edit.php	
Description	Edit Payment Information	
Method	POST	
Parameters	+id Integer	The ID of the Payment Information.
	?creditCardNumber: Integer	The credit card number.
	?cvc: Integer	The CVC of the credit card.
	?expirationDate: Integer	The expiration date of the credit card.
Redirects	R308	Success
	R306	Error
SQL	SQL306	
Permissions	OWN	

R307: Edit Details

URL	/action/details-edit.php	
Description	User can edit the basic account details.	
Method	POST	
Parameters	+id: Integer	User ID.
	?email: String	User'S email.
	?firstName: String	User's first name.
	?lastName: String	User's last name.
	?password: String	User's password.
Redirects	R308	Success
	R307	Error
SQL	SQL307	
Permissions	OWN	

R308: View Details

URL	/pages/userdetails.php
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Description	Shows a page in which the user will have access to all his details, like billing and payment information, delivery address and and other account details like the user's transactions.	
Method	GET	
Parameters	+id: Integer	User ID.
SQL	SQL308	
Permissions	OWN	

Module M04: Movie

R401: View Details

URL	/pages/product.php	
Description	Shows the product page, in which all the details of the movie are displayed.	
Method	GET	
AJAX Calls	R402 , R403	
Parameters	+id: Integer	Movie ID.
UI	UI03	
SQL	SQL401	
Permissions	PUB	

R402: Add to Wishlist

URL	/api/addwishlist.php	
Description	Add a movie to Wishlist	
Method	POST	
Parameters	+id: Integer	Movie ID.
Returns	200 OK	Movie Successfully added to wishlist
	404 Not Found	Error
SQL	SQL402	
Permissions	OWN	

R403: Add to Cart

URL	/api/addtocart.php	
Description	Add a movie to the cart	
Method	POST	
Parameters	+id: Integer	Movie ID.
Returns	200 OK	Movie Successfully added to cart
	404 Not Found	Error
SQL	SQL403	
Permissions	OWN	

R404: Review form

URL	/pages/reviewform.php	
Description	Shows a form in which the user will write a review to a certain movie.	
Permissions	USR	

R405: Add Review

URL	/action/add-review.php	
Description	User adds a review to a certain movie.	
Method	POST	
Parameters	+INSERT	Insert a new entry to the review's table
Redirects	R401	Success
	R405	Error
SQL	SQL405	
Permissions	USR	

R406: Delete Review

URL	/action/delete-review.php	
Description	User deletes their review on a certain movie.	
Method	POST	
Parameters	+id: Integer	Review ID
Redirects	R401	Success
	R406	Error
SQL	SQL406	
Permissions	OWN	

Module M05: Purchase**R501: View Cart**

URL	/pages/cart.php	
Description	Shows all products that a user has on his cart.	
Method	GET	
AJAX Calls	R502	
UI	UI05	
Parameters	+id: Integer	Cart ID
SQL	SQL501	
Permissions	OWN	

R502: Delete product from cart

URL	/api/delete-product-cart.php	
Description	Delete a product from cart.	
Method	POST	
Parameters	+id: Integer	ID of Movie on cart
Returns	200 OK	Product Successfully deleted.
	404 Not Found	Error
SQL	SQL502	
Permissions	OWN	

R503: Checkout

URL	/action/checkout.php	
Description	User checks out their cart adding the billing information and payment details before confirming.	
Method	POST	
Parameters	+id: Integer	Billing Information ID
	+id: Integer	Payment details ID
Redirects	R001	Product Successfully bought.
	R503	Error
SQL	SQL503	
Permissions	OWN	

Module M06: Shop**R601 : View Shop**

URL	/pages/shop.php
Description	Shows a catalog of all the movies for sale.
Method	GET
AJAX Calls	R602 , R603
UI	UI04
Permissions	PUB

R602: Filter movies

URL	/api/filter-movies.php	
Description	Filter movies by certain attributes like format, year and genre.	
Method	GET	
Parameters	+attribute: text	Attribute chosen to filter
Returns	200 OK	Movies successfully filtered
	404 Not Found	Error
Response body	JSON602	
SQL	SQL602	
Permissions	PUB	

R603: Search movies

URL	/api/search-movies.php	
Description	Search movies by description and/or title.	
Method	GET	
Parameters	+query: text	Text chosen to search
Returns	200 OK	Successful search
	404 Not Found	Error
Response body	JSON603	
SQL	SQL603	
Permissions	PUB	

1 JSON/XML Types

JSON602: Filtered Movies

```
{
  "movie": [
    {
      "movieID": "12346",
      "classification": 3,
      "description": "scelerisque neque. Nullam nisl. Maecenas malesuada
fringilla est. Mauris eu turpis. Nulla aliquet. Proin velit.",
      "imagePath": "http://imageurl.jpg",
      "name": "Movie 1",
      "numberOfDiscs": 1,
      "price": 16.94,
      "region": 5,
      "releaseDate": "2009-11-30",
      "runtime": 64,
      "stock": 48256,
      "studioID": 1,
      "averagescore": null,
      "formatID": "1",
      "genreID": 10
    },
    {
      "movieID": "12346",
      "classification": 16,
      "description": "quam vel sapien imperdiet ornare. In faucibus. Morbi
vehicula. Pellentesque tincidunt tempus risus. Donec egestas.",
      "imagePath": "http://imageurl.jpg",
      "name": "Movie 17",
      "numberOfDiscs": 2,
      "price": 28.37,
      "region": 6,
      "releaseDate": "2014-12-21",
      "runtime": 71,
      "stock": 49638,
      "studioID": 7,
      "averagescore": null,
      "formatID": "2",
      "genreID": 10
    },
    {
      "movieID": "12346",
      "classification": 3,
      "description": "dapibus id, blandit at, nisi. Cum sociis natoque
penatibus et magnis dis parturient montes, nascetur",
      "imagePath": "http://imageurl.jpg",
      "name": "Movie 29",
```

```
    "numberOfDiscs": 2,  
    "price": 25.67,  
    "region": 2,  
    "releaseDate": "2007-01-09",  
    "runtime": 92,  
    "stock": 83356,  
    "studioID": 6,  
    "averagescore": null,  
    "formatID": "2",  
    "genreID": 10  
  }  
]  
}
```

JSON603: Search Movies

```
{  
  "movie": [  
    {  
      "movieID": "12346",  
      "classification": 3,  
      "description": "scelerisque neque. Nullam nisl. Maecenas malesuada  
fringilla est. Mauris eu turpis. Nulla aliquet. Proin velit.",  
      "imagePath": "http://imageurl.jpg",  
      "name": "Movie 1",  
      "numberOfDiscs": 1,  
      "price": 16.94,  
      "region": 5,  
      "releaseDate": "2009-11-30",  
      "runtime": 64,  
      "stock": 48256,  
      "studioID": 1,  
      "averagescore": null,  
      "formatID": "1",  
      "genreID": 10  
    }  
  ]  
}
```

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