סביבות פיתוח – עבודה 3 – חלק ב'

בחרנו לממש חנות למכירת סרטים.

המערכת תשמש ל:

1. מכירת סרטים לפי קטגוריות (מתח, אימה, דרמה וכו').
2. ניהול מאגר משתמשים.
3. מעקב אחר רכישות והזמנות.

למערכת יהיו שני ממשקים:

1. ממשק לקוח.
2. ממשק ניהול.

הנחות:

1. אנו מניחים כי המשתמש קודם מבצע Login למערכת ורק לאחר מכן מבצע בקשות / מפעיל שיטות בשרת.
2. כאשר השתמשנו במילה “Products”, הכוונה היא לסרטים.
3. בשיטה "ProductsSortedByYears" בחרנו למיין לפי שנים.

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| **ID** | **Method Name** | **HTTP Method** | **Parameters** | **Returns** | **Explanation** |
| 1 | Login | POST |  | Bool | This method login to the system.  Using POST because the information which sent to the server is private.  True = login succeeded.  False = login failed. |
| 2 | Registration | POST |  | Bool | This method register guests to the system.  Using POST because the information which sent to the server is private and we change information in the database.  True = registration succeeded.  False = registration failed. |
| 3 | updateRating | POST |  | Bool | This method update the rating of an existing movie.  Using POST because we change information in the database.  True = success.  False = fail. |
| 4 | getAllCategories | GET | - | Return all Movie’s Categories:  [ {“CategoryName”: },  {“CategoryName”: },  ……..  ] | This method return all movie’s categories.  Using GET because there is no information to deliver to the server or any wish to change any information. |
| 5 | getAllCountires | GET | - | Return All Countries:  { "ID": ,  "Name":  },… | This method return all countries.  Using GET because there is no information to deliver to the server or any wish to change any information. |
| 6 | getTop5HotProducts | GET | - | Returns top 5 hottest products (by rating) :  [ {“MovieID”: ,  “MovieName”: ,  “MovieCategory”: ,  “MovieDirector”: ,  “Price”: ,  “Month”: ,  “Year”: ,  “AmountInStock”: ,  “Rating”:  }, ………  ] | This method return the top 5 hottest products.  Using GET because there is no information to deliver to the server or any wish to change any information. |
| 7 | answerPersonalQuestions | POST | UserName, Address, PetName | Bool | This method send answers to the server.  Using POST because the information which sent to the server is private.  True = success.  False = fail. |
| 8 | resetPassword | POST | Username, NewPassword, ConfirmPassword | Bool | This method reset user’s password.  Using POST because the information which sent to the server is private.  True = success.  False = fail. |
| 9 | newProductsMonthly | GET | - | Return all movies from the last month:  [ {"MovieName": , … }] | This method return all new products from the last month.  Using GET because there is no information to deliver to the server or any wish to change any information. |
| 10 | getProductsByCategory | GET | - | Return product and his category:  [ {“MovieName”: ,  “MovieCategory”: ,  }, ……  ] | This Method return a list of products by categories.  Using GET because there is no information to deliver to the server or any wish to change any information. |
| 11 | RecommendedProductsForUser | GET | UserName | [ { “MovieName”: , … }] | This Method return a list of recommended products for the specific user.  Using GET because the information which sent to the server is not private. |
| 12 | getProductDetails | GET | MovieID | Return movie details:  [ {“MovieID”: ,  “MovieName”: ,  “MovieCategory”: ,  “MovieDirector”: ,  “Price”: ,  “Month”: ,  “Year”: ,  “AmountInStock”: ,  “Rating”:  } ] | This Method return the product’s details.  Using GET because the information which sent to the server is not private and we don’t change information in the database. |
| 13 | addProductToCart | POST |  | Bool | This Method add product to cart.  Using POST because there is information to deliver to the server and we wish to change information in the database. |
| 14 | removeProductFromCart | DELETE |  | Bool | This Method remove product from cart.  Using DELETE because the product is being deleted from user’s cart. |
| 15 | showCart | GET | UserName | Return user’s cart with the following fields:  [ {“MovieId”: ,  “MovieName”: ,  “Amount”: ,  “Price”:  }, ……  ] | This Method return the current products in cart.  Using GET because the information which sent to the server is not private and we don’t change information in the database. |
| 16 | getMyOrders | GET | UserName | Return user’s orders with the following fields:  [ {“OrdreID”: ,  “OrderDate”: ,  “ShipmentDate”: ,  “TotalAmount”: ,  “TotalPrice”:  }, ……  ] | This Method return all orders history.  Using GET because the information which sent to the server is not private and we don’t change information in the database. |
| 17 | Purchase | POST | UserName,  CreditNum, ShipmentDate | Bool | This method add record to Orders Table and remove this record from Cart Table.  Using POST because the information which sent to the server is private and we change information in the database.  True = success  False = fail |
| 18 | checkInStock | GET | MovieID | Bool | This method checks if the product exists in stock.  Using GET because the information which sent to the server is not private and we don’t change information in the database.  True = success  False = fail |
| 19 | getAllUsers | GET | - | Return all users:  [ {“UserName”: ,  “FirstName”: ,  “LastName”: ,  “Email”: ,  “Address”: ,  “Country”: ,  “FavoriteCategories”: ,  “isAdmin”: ,  “PetName”:  }, ……  ] | This method return list of users.  Using GET because there is no information to deliver to the server or any wish to change any information. |
| 20 | checkIsAdmin | GET | UserName | Bool | This method checks by the current login, if the user is Admin.  Using GET because the information which sent to the server is not private.  True = user is admin.  False = user is not admin. |
| 21 | getOrdersReport | GET | **-** | [ {  "OrderID":,  "UserName":,  "OrderDate":,  "ShipmentDate":,  "TotalAmount":,  "TotalPrice":  } ] | This method return the order reports.  Using GET because there is no information to deliver to the server or any wish to change any information. |
| 22 | editProductDetails  הערה: המשתמש חייב להזין את כל הפרמטרים. גם אם ישנם שדות שהוא לא שינה. | PUT | movieID, Price, AmountInStock, Rating | Bool | This method change the product details.  Using PUT because we updating existing resource. |
| 23 | getUser | GET | UserName | Return specific user:  [ {“UserName”: ,  “FirstName”: ,  “LastName”: ,  “Email”: ,  “Address”: ,  “Country”: ,  “FavoriteCategories”: ,  “isAdmin”: ,  “PetName”:  } ] | This method return specific user details.  Using GET because the information which sent to the server is not private and we don’t change information in the database. |
| 24 | removeUser  (Only admins) | DELETE | UserName | Bool | This method remove user from the system.  Using DELETE because the user is being deleted from Users’ table.  True = success  False = fail |
| 25 | addProductToStock | POST |  | Bool | This method return the updated stock by the product.  Using POST because there is information to deliver to the server and we wish to change information in the database. |
| 26 | removeProductFromStock | DELETE | MovieID | Bool | This method remove product from the stock.  Using DELETE because the product is being deleted from Products’ table.  True = success.  False = fail. |
| 27 | checkAmountInStock | GET | - | Return the amount of each movie in stock:  [ {“MovieID”: ,  “MovieName”: ,  “AmountInStock”:  }, ……  ] | This method return the amount of each movie in stock.  Using GET because there is no information to deliver to the server or any wish to change any information. |