**סביבות פיתוח באינטרנט – מטלה 3 חלק ב'**

**Json Notation:**

**Product =**

[productID] ,[productName] ,[entranceDate] ,[quantity],[price],[brand],[color]

**User** =

[userName],[firstName],[lastName],[country],[city],[address],[birthDate],[password]

,[mail],[phone],[isAdmin]

**Purchase =** [purchaseID],[userName],[purchaseDate] ,[deliveryDate] ,[price]

**PurchasedProduct =** [purchaseID],[productID],[quantity]

**cartProduct =** [productID],[quantity]

**Category =** [categoryID],[categoryName]

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| --- | --- | --- | --- | --- |
| **Method Name** | **HTTP Method** | **Parameters** | **Returns** | **Explanation** |
| Product/getTop5Products | GET | - | Product[5] | The server should return the top 5 products (most popular) in the shop. |
| User/Login | POST | {Username, password} | Success: {user,token}  Fail: 'fail' | POST is the safest method for login.  If the connection is successful returns true.  If there are products in the cart returns the cart Products. |
| User/getRestorePasswordQuestions | GET | {Username} | {question1,  question2} | Used for initiating the password retrieval process of a user.  The method returns the questions to the user. |
| User/restorePassword | POST | Content:[  {username},  {Answer1,Answer2}  ] | Success:Password  Fail:'fail' | Used for answering the questions for password restore. |
| User/register | POST | Content:[  {User},  {Q1,A1,Q2,A2},  {Cat1,Cat2 }  ] | Bool | Creates a new user. Sends the user details, questions and answers for password retrieval and user's preferred categories.  Questions sent by their ID because we chose to limit the user with a certain questions. |
| Product/getCategories | GET | - | [AllCategories] | Return List of the categories. |
| Product/get5NewestProducts | GET | - | Product[5] | Returns a list of the 5 newest products in the shop. |
| User/logged/getRecommendedProductsByUsers | GET | userName | Products[3] | Returns list of the recommended products as calculated by similar users up to 3 products. |
| User/logged/getRecommendedProductsByCategories | GET | userName | Products[3] | Returns list of the recommended products by the user preffered categories. |
| User/logged/getUserPurchases | GET | userName | Purchases[] | Return list of the purchases made by the user |
| Purchase/getCurrency | GET | - | Float | Returns the current currency  For NIS<-->Dollar.  Made with usage of external API. |
| Purchase/logged/Purchase | POST | Content:[  {username, deliveryDate,  Price},  cartProducts[]  ] | Success:  {purchaseID }  Fail:  'fail' | Creates a new purchase object on the server. If the purchase fails return NULL. Else return the ID of the new purchase.  Updates all of the relevant tables with updated values. |
| Purchase/logged/getPurchasedProducts | GET | purchaseID | purchasedProduct[] | Returns the products purchased on the purchase with 'purchaseID'. |
| User/logged/updateCart | POST | Content:[  {userName},  cartProducts[]  ] | - | Updates the saved cart with the updated list of cart products (quantity for each product ID). |
| User/logged/getUserCart | GET | userName | cartProducts[] | Returns the current cart of the user with the specified userName |
| Product/findProduct | GET | productName | Success:product  Fail:[] | Returns product by specific model name. |
| Product/getProductByID | GET | productID | Success:product  Fail:[] | Returns the product with the attached ID. |
| Product/getProductsByCategory | GET | categoryID | Product[] | Returns the products with the specified category. |
| Product/getProductsCategories | GET |  | {productID,categoryID}[] | Returns an array of tuples -product and category ID. Sorted by productID |
| Product/getProductsByColor | GET | color | Product[] | Returns the products with the specified color. |
| Product/getProductsByBrand | GET | brand | Product[] | Returns the products with the specified brand. |
| Product/getAllProducts | GET | productID[] | Product[] | Returns all the products in the DB |
| Product/removeProduct | POST | productID | Success:'success'  Fail:'fail' | Deletes the product from with the specified product. |
| Product/logged/addProduct | POST | Content:[  {product},  Category[]  ] | Success:'success'  Fail:'fail' | POST is used for the creation of the new entity. productID is set by the server so POST fits better to this case then PUT. |
| Product/logged/removeUser | POST | userName | Success:'success'  Fail:'fail' | Removes the user with the specified username. |

שינויים:

התווספה אך ורק פונקציונאליות אחת חדשה בשרת שהיא ייבוא כל הקטגוריות של כל המוצרים. זאת מאחר ובשלב כתיבת ה-api היו לנו פערים במה יידרש מאיתנו בזמן כתיבת הקוד בצד לקוח.

\*\* לא ידענו שנידרש להביא את כל המוצרים בו זמנית לצד לקוח.