*Digital Bubble*

*User Manual*

**Databases project, 3rd year, 2nd semester**

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To test the *REST API*, you can user a *REST* client such as *postman*, as mentioned in the installation manual.

Endpoints available:

* ***User***
* **Registration**

Anyone can register as a buyer, “role”: 2. But only admins can register as admin or seller, “role”: 0 and “role”: 1, respectively.

**req** **POST** 127.0.0.1:8080/digitalbubble/user

{

“user\_name”: username,

“password”: password,

“fist\_name”: first name,

“last\_name”: last name,

“email”: email,

“phone\_number”: phone number,

“tin"”: tin,

“state”: state,

“city”: city,

“zip\_code”: zip code,

“street\_name”: street name,

“house\_no”: house number,

“role”: role number

}

**res** {user\_id} or if an error occurs {“error”: error description}

* **Login**

After a successful login, it is necessary to include the obtained token in the section “*Authorization/Bearer Token*” of the *HTTP* request.

***req* PUT** 127.0.0.1:8080/digitalbubble/user

{

“user\_name”: username,

“password”: password

}

***res*** {token} or if an error occurs {“error”: error description}

* ***Product***
* **Create new product**

Only sellers can create a new product. There are three types of products: computer “type”: 0, television “type”: 1 and smartphone “type”: 2.

**req POST** 127.0.0.1:8080/digitalbubble/product

{

“name”: product name,

“price”: price,

“stock”: stock,

“description”: description,

“category”: category,

“type”: type, (Not necessary for a generic product)

“cpu”: computer cpu, (computer)

“gpu”: computer gpu, (computer)

“size”: television size, (television)

“technology”: technology, (television)

“model”: model, (smartphone)

“operative\_system”: system (smartphone)

}

**res** {product\_id} or if an error occurs {“error”: error description}

* **Update existing product**

Updates a product with a new version.

***req PUT*** 127.0.0.1:8080/digitalbubble/user/{product\_id}

{

“name”: product name,

“price”: price,

“stock”: stock,

“description”: description,

“category”: category,

“cpu”: computer cpu, (computer)

“gpu”: computer gpu, (computer)

“size”: television size, (television)

“technology”: technology, (television)

“model”: model, (smartphone)

“operative\_system”: system (smartphone)

}

**res** if an error occurs {“error”: error description}

* ***Order***
* **Make purchase**

Notifies buyer and seller when a purchase is fully processed.

***req POST*** 127.0.0.1:8080/digitalbubble/order

***res***

{

“cart”: [product1\_id, quantity1],

[product2\_id, quantity2],

…,

[productN\_id, quantityN]

}

**res** {order\_id} or if an error occurs {“error”: error description}

* **Leave rating/feedback**

Leave textual feedback and a rating on a product that you bought.

***req POST*** 127.0.0.1:8080/digitalbubble/rating/{product\_id}

***res***

{

“rating”: rating,

“comment”: comment

}

**res** if an error occurs {“error”: error description}

* **Leave comment/question**

Leave a comment or a question on a product that you bought.

***req POST*** 127.0.0.1:8080/digitalbubble/questions/{product\_id}

***POST*** 127.0.0.1:8080/digitalbubble/questions/{product\_id}/ {parent\_question\_id}

{

“question”: question

}

**res** {question\_id} or if an error occurs {“error”: error description}

* ***Information***
* **Consult product information**

Get the generic information, price history, average rating and comments of a product.

***req GET*** 127.0.0.1:8080/digitalbubble/rating/{product\_id}

***res***

{

“name”: name,

“description”: description,

“category”: category,

“prices”: [current\_price\_date – current\_price, prev\_price\_date prev\_price, (…)],

“rating”: average rating,

“comments”: [comment1, comment2, (…)]

}

or if an error occurs {“error”: error description}

* **Statistics for the last 12 months**

Get the sales details by month, over the last 12 months.

***req GET*** 127.0.0.1:8080/digitalbubble/report/year

***res***

{

“month”: month,

“orders”: number of orders,

“total\_values”: total value

}

or if an error occurs {“error”: error description}

* ***Notification***
* **Notifications for the user**

Get all the notifications

***req GET*** 127.0.0.1:8080/digitalbubble/notifications

***res***

{

[

{“description”: description,

“id”: id,

“title”: title,

“user\_id”: user\_id},

(…)

]

}

or if an error occurs {“error”: error description}