# Digital Bubble

User Manual

# Databases project, 3<sup>rd</sup> year, 2<sup>nd</sup> 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.

```
PUT
               127.0.0.1:8080/digitalbubble/user
req
{
       "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.

```
127.0.0.1:8080/digitalbubble/product
       POST
{
       "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.

## > 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

```
"title": title,
       "user_id": user_id},
       (...)
       ]
}
or if an error occurs {"error": error description}
```