Products Backend API User Stories

Learning objective: Build a REST web API in Django REST Framework and test each endpoint in Postman.

Technologies: Python, Django REST Framework, Postman

Total points: /55 unweighted -> /5 weighted

(5 points): As a developer, I want to make good, consistent commits.

(2.5 points) As a developer, I want to create a Product model

==Property names must be in snake_case and match the following exactly!==

- title - CharField

- description - CharField

- price - DecimalField

- inventory_quantity – IntegerField

(2.5 points) As a developer, I want my API to serve content on the following urls paths:

==Paths must match these exactly!==

- '127.0.0.1:8000/api/products/'

- '127.0.0.1:8000/api/products/<int:pk>/'

(15 points) As a developer, I want to build a REST web API in Django REST Framework, so that I can make HTTP requests interact with the data set.

(5 points) As a developer, I want to create a GET endpoint the responds with a 200 success status code and all of the products within the Product table.

(5 points) As a developer, I want to create a GET by id endpoint that does the following things:

- Accepts a value from the request's URL (The id of the product to retrieve).

- Returns a 200 status code.

- Responds with the product in the database that has the id that was sent through the URL.

(5 points) As a developer, I want to create a POST endpoint that does the following things:

- Accepts a body object from the request in the form of a Product model.

- Adds the new product to the database.

- Returns a 201 status code.

- Responds with the newly created product object.

(5 points) As a developer, I want to create a PUT endpoint that does the following things:

- Accepts a value from the request's URL (The id of the product to be updated).

- Accepts a body object from the request in the form of a Product model.

- Finds the product in the Product table and updates that product with the properties that were sent in the request's body.

- Returns a 200 status code.

- Responds with the newly updated product object.

(5 points) As a developer, I want to create a DELETE endpoint that does the following things:

- Accepts a value from the request's URL.

- Returns a 204 status code (NO CONTENT).

(5 points) As a developer, I want to use Postman to make a POST, PUT, DELETE, and both GET requests (get by id and get all) request to my REST web API, save it to a collection, and then export it as a JSON from Postman.

BONUS

(5 points) As a developer, I want to add the ability to add an image link to each product. **(Link to picture on the internet, this will just be a simple CharField representing the URL of the image, you do NOT need to add an actual image file.)**