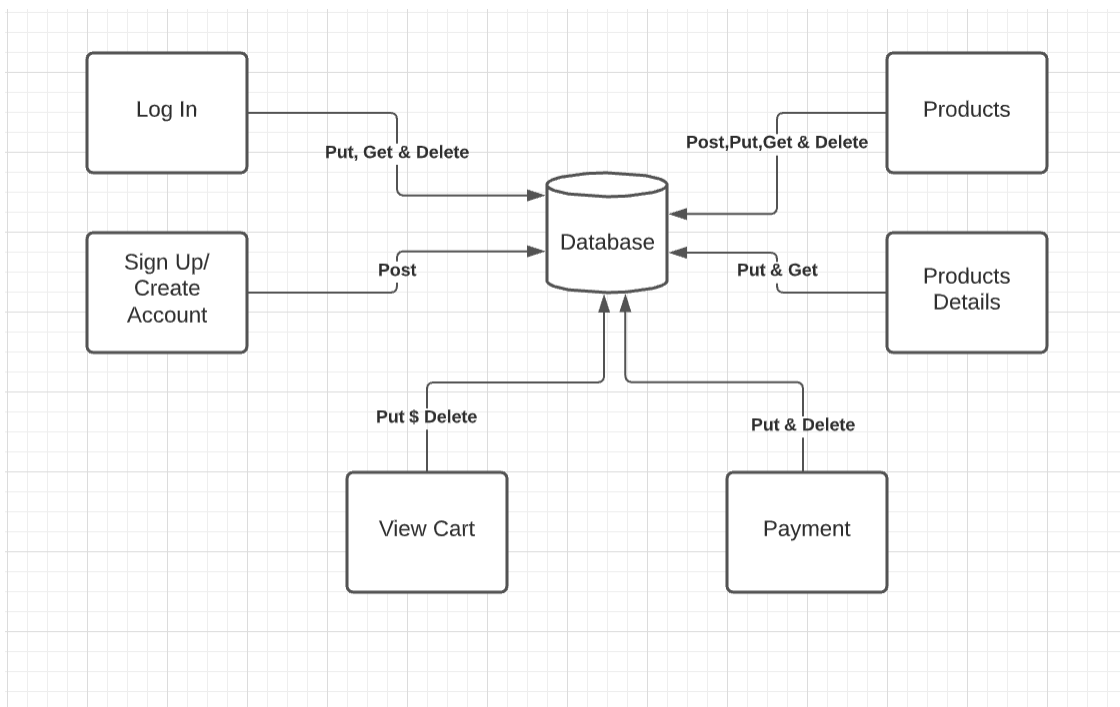
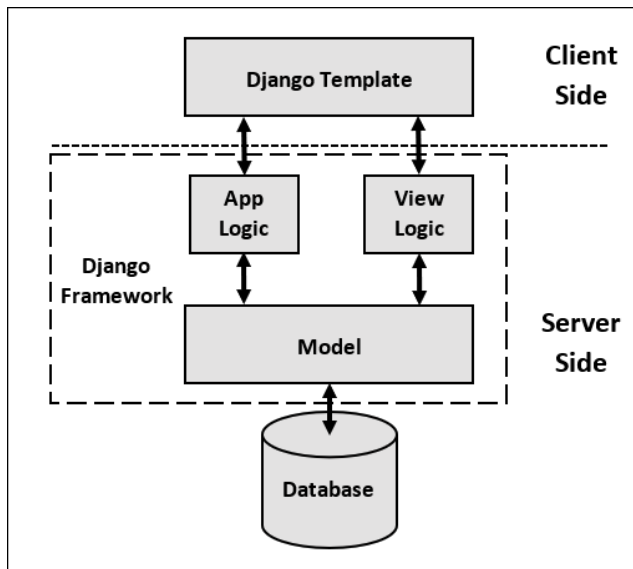


Services Design Document

In my e-commerce website I will use Python and Django framework. Django framework is its automatic admin system, which reads metadata from the Django models, and generates quick, model-centric admin, where administrators of system can view and edit data models.



1. Create Products (Post Method)

POST /products

Implementation Notes

Creates a new product

Parameters

| Parameter | Value | Description | Parameter Type | Data Type | | | | |
|-----------|--|----------------|----------------|--|-------|---------------|--|---|
| product | <pre>{ "type": "women shoes", "price": 49.99, "shipping": 6.99, "upc": "Test api", "description": "Women leather sandals made of multicolor beads rubber sole and leather", }</pre> <p>Parameter content type: <input type="text" value="application/json"/></p> | Product to add | body | <table><tr><th>Model</th><th>Example Value</th></tr><tr><td></td><td><pre>{ "name": "string", "type": "string", "price": 0, "shipping": 0, "upc": "string", "description": "string", "manufacturer": "string", "model": "string", "url": "string", "image": "string" }</pre></td></tr></table> | Model | Example Value | | <pre>{ "name": "string", "type": "string", "price": 0, "shipping": 0, "upc": "string", "description": "string", "manufacturer": "string", "model": "string", "url": "string", "image": "string" }</pre> |
| Model | Example Value | | | | | | | |
| | <pre>{ "name": "string", "type": "string", "price": 0, "shipping": 0, "upc": "string", "description": "string", "manufacturer": "string", "model": "string", "url": "string", "image": "string" }</pre> | | | | | | | |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers | | | | |
|------------------|--|---|---------|---------------|--|--|--|
| 200 | Empty response | | | | | | |
| 400 | Unexpected error | <table><tr><th>Model</th><th>Example Value</th></tr><tr><td></td><td><pre>{ "name": "string", "message": "string", "code": 0, "className": "string", "errors": {} }</pre></td></tr></table> | Model | Example Value | | <pre>{ "name": "string", "message": "string", "code": 0, "className": "string", "errors": {} }</pre> | |
| Model | Example Value | | | | | | |
| | <pre>{ "name": "string", "message": "string", "code": 0, "className": "string", "errors": {} }</pre> | | | | | | |

Try it out!

[Hide Response](#)

Curl

```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \
  "name": "African Beaded Sandals", \
  "type": "Women Shoes", \
  "price": 49.99, \
  "shipping": 6.99, \
  "upc": "Test api", \
  "description": "Women leather sandals made of multicolor beads rubber sole and leather", \
  "manufacturer": "Maasai", \
  "model": "Petite", \
  "url": "https://www.afrikrea.com/en/article/african-women-sandals", \
  "image": "https://d17a17kld06uk8.cloudfront.net/products/3YE8NWM/Z8WHSX1F-large.webp" \
}' 'http://localhost:3030/products'
```

Request URL

http://localhost:3030/products

Response Body

```
{
  "id": 9999680,
  "name": "African Beaded Sandals",
  "type": "Women Shoes",
  "price": 49.99,
  "shipping": 6.99,
  "upc": "Test api",
  "description": "Women leather sandals made of multicolor beads rubber sole and leather",
  "manufacturer": "Maasai",
  "model": "Petite",
  "url": "https://www.afrikrea.com/en/article/african-women-sandals",
  "image": "https://d17a17kld06uk8.cloudfront.net/products/3YE8NWM/Z8WHSX1F-large.webp",
  "updatedAt": "2022-03-18T14:37:54.860Z",
  "createdAt": "2022-03-18T14:37:54.860Z"
}
```

Response Code

201

Response Headers

```
{
  "access-control-allow-origin": "*",
  "allow": "GET,POST,PUT,PATCH,DELETE",
  "connection": "keep-alive",
  "content-length": "472",
  "content-type": "application/json; charset=utf-8",
  "date": "Fri, 18 Mar 2022 14:37:54 GMT",
  "etag": "W/\"1d8-MjzDcVRYmyeK/cwtM0sUP6QfN0A\"",
  "keep-alive": "timeout=5",
  "vary": "Accept, Accept-Encoding",
  "x-powered-by": "Express"
}
```

2. View Products by ID (Get Method)

GET /products/{id}

Implementation Notes

Returns a product based on an ID,

Response Class (Status 200)

Product response

Model | Example Value

```
{
  "type": "string",
  "price": 0,
  "shipping": 0,
  "upc": "string",
  "description": "string",
  "manufacturer": "string",
  "model": "string",
  "url": "string",
  "image": "string"
}
```

Response Content Type

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------|--------------------------------------|------------------------|----------------|-----------|
| id | <input type="text" value="9999680"/> | ID of product to fetch | path | long |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|--------|-----------------------|---------|
| 400 | Error | Model Example Value | |

```
{
  "name": "string",
  "message": "string",
  "code": 0,
  "className": "string",
  "errors": {}
}
```

Try it out! [Hide Response](#)

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:3030/products/9999680'
```

Request URL

```
http://localhost:3030/products/9999680
```

Response Body

```
{
  "id": 9999680,
  "name": "African Beaded Sandals",
  "type": "Women Shoes",
  "price": 49.99,
  "upc": "Test api",
  "shipping": 6.99,
  "description": "Women leather sandals made of multicolor beads rubber sole and leather",
  "manufacturer": "Maasai",
  "model": "Petite",
  "url": "https://www.afrikrea.com/en/article/african-women-sandals",
  "image": "https://d17a17kld06uk8.cloudfront.net/products/3YE8NWM/Z8WHSX1F-large.webp",
  "createdAt": "2022-03-18T14:37:54.860Z",
  "updatedAt": "2022-03-18T14:37:54.860Z",
  "categories": []
}
```

Response Code

200

Response Headers

```
{
  "access-control-allow-origin": "*",
  "allow": "GET,POST,PUT,PATCH,DELETE",
  "connection": "keep-alive",
  "content-length": "488",
  "content-type": "application/json; charset=utf-8",
  "date": "Fri, 18 Mar 2022 14:40:55 GMT",
  "etag": "W/\"1e8-N6QFJWcgT1TxX5Gfgo2Ph09MciU\"",
  "keep-alive": "timeout=5",
  "vary": "Accept, Accept-Encoding",
  "x-powered-by": "Express"
}
```

Get Product by Incorrect ID – Response code 404

GET /products/{id}

Implementation Notes

Returns a product based on an ID,

Response Class (Status 200)

Product response

Model | Example Value

```
{
  "name": "string",
  "type": "string",
  "price": 0,
  "shipping": 0,
  "upc": "string",
  "description": "string",
  "manufacturer": "string",
  "model": "string",
  "url": "string",
}
```

Response Content Type

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------|--------------------------------------|------------------------|----------------|-----------|
| id | <input type="text" value="9999681"/> | ID of product to fetch | path | long |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|--------|-----------------------|---------|
| 400 | Error | Model Example Value | |

```
{
  "name": "string",
  "message": "string",
  "code": 0,
  "className": "string",
  "errors": {}
}
```

[Try it out!](#)

[Hide Response](#)

Curl

```
curl -X GET --header 'Accept: application/json' 'http://localhost:3030/products/9999681'
```

```
curl -X GET --header 'Accept: application/json' 'http://localhost:3030/products/9999681'
```

Request URL

```
http://localhost:3030/products/9999681
```

Response Body

```
{
  "name": "NotFound",
  "message": "No record found for id '9999681'",
  "code": 404,
  "className": "not-found",
  "errors": {}
}
```

Response Code

```
404
```

Response Headers

```
{
  "access-control-allow-origin": "*",
  "allow": "GET,POST,PUT,PATCH,DELETE",
  "connection": "keep-alive",
  "content-length": "111",
  "content-type": "application/json; charset=utf-8",
  "date": "Fri, 18 Mar 2022 14:46:34 GMT",
  "etag": "W/\"6f-uEcf2Dm6DtR3tlyVQTZy7LKnSbI\"",
  "keep-alive": "timeout=5",
  "vary": "Accept-Encoding",
  "x-powered-by": "Express"
}
```

3. Delete Product by ID (Delete Method)

| DELETE /products/{id} | | | | |
|--|-----------------|-------------------------|----------------|-----------|
| Implementation Notes Deletes a single product based on the ID supplied | | | | |
| Parameters | | | | |
| Parameter | Value | Description | Parameter Type | Data Type |
| id | 9999680 | ID of product to delete | path | long |
| Response Messages | | | | |
| HTTP Status Code | Reason | Response Model | Headers | |
| 200 | Product deleted | | | |

Delete Product by Incorrect ID – Response code 404

DELETE /products/{id}

Implementation Notes
Deletes a single product based on the ID supplied

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------|--------------------------------------|-------------------------|----------------|-----------|
| id | <input type="text" value="9999681"/> | ID of product to delete | path | long |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers | | | | |
|------------------|--|---|---------|---------------|--|--|--|
| 200 | Product deleted | | | | | | |
| 400 | Unexpected error | <table><thead><tr><th>Model</th><th>Example Value</th></tr></thead><tbody><tr><td></td><td><pre>{ "name": "string", "message": "string", "code": 0, "className": "string", "errors": {} }</pre></td></tr></tbody></table> | Model | Example Value | | <pre>{ "name": "string", "message": "string", "code": 0, "className": "string", "errors": {} }</pre> | |
| Model | Example Value | | | | | | |
| | <pre>{ "name": "string", "message": "string", "code": 0, "className": "string", "errors": {} }</pre> | | | | | | |

Try it out!

Hide Response

Curl

```
curl -X DELETE --header 'Accept: application/json' 'http://localhost:3030/products/9999681'
```

Request URL

```
http://localhost:3030/products/9999681
```

Response Body

```
{
  "name": "NotFound",
  "message": "No record found for id '9999681'",
  "code": 404,
  "className": "not-found",
  "errors": {}
}
```

Response Code

```
404
```


Response Code

404

Response Headers

```
{
  "access-control-allow-origin": "*",
  "allow": "GET,POST,PUT,PATCH,DELETE",
  "connection": "keep-alive",
  "content-length": "111",
  "content-type": "application/json; charset=utf-8",
  "date": "Fri, 18 Mar 2022 14:47:52 GMT",
  "etag": "W/\"6f-uEcf2Dm6DtR3t1yVQTZy7LKnSbI\"",
  "keep-alive": "timeout=5",
  "vary": "Accept-Encoding",
  "x-powered-by": "Express"
}
```

1. Create (User Account):

POST/user

```
curl -X 'POST' \
-H 'accept: application/json' \
-H 'Content-Type: application/json' \
-d '[
{
  "id": 20210711,
  "username": "johndoe",
  "firstName": "John",
  "lastName": "Doe",
  "streetAddress": "45 Main Street",
  "city": "Salt Lake City",
  "state": "UT",
  "zipCode": "84012",
  "email": "johndoe@gmail.com",
```

```
"password": "1234",
"phone": "802-345-8065",
}
]
```

Server response

Code

Details

200

Response body

```
{
  "code": 200,
  "type": "unknown",
  "message": "ok"
}
```

Do

1. Update (User Account)- update user firstname and cellphone PUT/user/{username}

```
curl -X 'PUT' \
-H 'accept: application/json' \
-H 'Content-Type: application/json' \
-d '{
  "id": 1,
  "username": "johnDoe",
  "firstName": "John-Peter",
  "lastName": "Doe",
  "email": "johndoe@gmail.com",
  "password": "12344",
  "phone": "8014537878",
  "userStatus": 1
}'
```

Server response

Code

Details

200

Undocumented

Response body

```
{
```

Do

Code

Details

```
"code": 200,  
"type": "unknown",  
"message": "1"  
}
```

3. Read (User Account)

GET /user/{username}

```
curl -X 'GET' \  
  'https://petstore.swagger.io/v2/user/johndoe' \  
  -H 'accept: application/json'
```

Request URL

https://petstore.swagger.io/v2/user/johndoe

Server response

Code

Details

200

Response body

```
{  
  "code": 200,  
  "type": "unknown",  
  "message": "1"  
}
```

Response headers

```
access-control-allow-headers: Content-Type,api_key,Authorization access-control-allow-  
application/json date: Mon,08 Nov 2021 02:35:57 GMT server: Jetty(9.2.9.v20150224)
```

4. Delete (User Account):

DELETE /user/{username}

```
curl -X 'DELETE' \  
  'https://petstore.swagger.io/v2/user/johndoe' \  
  -H 'accept: application/json'
```

Request URL

`https://petstore.swagger.io/v2/user/johndoe`

Server response

Code

Details

200

Undocumented

Response body

```
{
  "code": 200,
  "type": "unknown",
  "message": "johndoe"
}
/json  date: Mon,08 Nov 2021 01:35:08 GMT  server: Jetty(9.2.9.v20150224)
```

Place an order for item

Post Method:

POST/store/order

```
curl -X 'POST' \
-H 'accept: application/json' \
-H 'Content-Type: application/json' \
-d '{
  "id": 1,
  "itemId": 1,
  "quantity": 2,
  "shipDate": "2021-11-08T01:50:21.010Z",
  "status": "placed",
}
```

```
"complete": true
}'
```

Server response

| Code | Details |
|------|---------|
|------|---------|

200

Response body

```
{
  "id": 1,
  "itemId": 1,
  "quantity": 2,
  "shipDate": "2021-11-08T01:50:21.010+0000",
  "status": "placed",
  "complete": true
}
```

Do

Response headers

```
access-control-allow-headers: Content-Type,api_key,Authorization access-control-allow-
application/json  date: Mon,08 Nov 2021 01:50:54 GMT  server: Jetty(9.2.9.v20150224)
```

Delete Method:

DELETE/store/order/{orderId}

```
curl -X 'DELETE' \
-H 'accept: application/json'
```

Request URL

```
https://petstore.swagger.io/v2/store/order/1
```

Server response

| Code | Details |
|------|---------|
|------|---------|

200

Undocumented

Response body

Do

Code

Details

```
{
  "code": 200,
  "type": "unknown",
  "message": "1"
}
```

EXAMPLE OF BAD REQUEST GET METHOD – wrong username

```
curl -X 'GET' \
  'https://petstore.swagger.io/v2/user/john' \
  -H 'accept: application/json'
```

Request URL

```
https://petstore.swagger.io/v2/user/john
```

Server response

Code

Details

404

Error: response status is 404

Response body

```
{
  "code": 1,
  "type": "error",
  "message": "User not found"
}
```

Response headers

```
access-control-allow-headers: Content-Type,api_key,Authorization access-control-allow-
application/json date: Mon,08 Nov 2021 02:56:30 GMT server: Jetty(9.2.9.v20150224)
```

Delete Method- wrong username

DELETE/user/{username}

```
curl -X 'DELETE' \
  -H 'accept: application/json'
```

Request URL

Server response

| Code | Details |
|------|---------|
|------|---------|

| | |
|-----|--|
| 200 | |
|-----|--|

Undocumented

Response body

```
{
  "code": 200,
  "type": "unknown",
  "message": "john"
}
```

Response headers

```
access-control-allow-headers: Content-Type,api_key,Authorization access-control-allow-
application/json date: Mon,08 Nov 2021 02:59:09 GMT server: Jetty(9.2.9.v20150224)
```

Responses

| Code | Description |
|------|-------------|
|------|-------------|

| | |
|-----|--|
| 400 | |
|-----|--|

Invalid username supplied

| | |
|-----|--|
| 404 | |
|-----|--|

User not found

