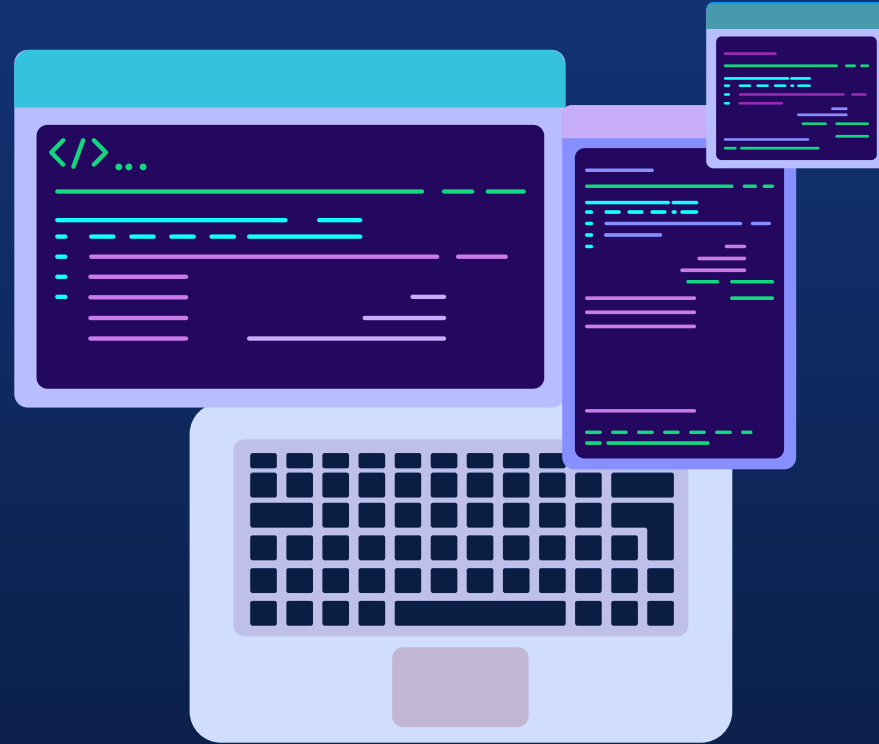


Bitcoin Exchange

Start2Impact
MongoDB project






Description

Exchange service to trade BTC/USD. The web-app only provides API endpoints with the following features:

API endpoints

1. User registration via token.
 2. Authentication via token.
 3. Retrieve user's profile information and account balance.
 4. List all user's orders or create a new one.
 5. Retrieve or delete a specific user's order (only active orders can be deleted).
 6. Retrieve all active orders opened by other users.
- 

Frameworks and technologies



Django

Core of the application



Django REST Framework

Services for external applications



MongoDB

Web-app structure and main storage




Djongo

Interface between Django and MongoDB

API ENDPOINTS OVERVIEW





```
GET /api/profile/
```

```
HTTP 200 OK
```

```
Allow: GET, HEAD, OPTIONS
```


```
Content-Type: application/json
```

```
Vary: Accept
```

```
{  
  "id": 1,  
  "user": "admin",  
  "active_orders": 1,  
  "executed_orders": 0,  
  "dollar_balance": 0.0,  
  "bitcoin_balance": 2.5999772244924504,  
  "bitcoin_profit_percent": 0.0  
}
```

/api/profile/

This endpoint accepts GET requests and returns the user's account data including the account balance.





/api/orders/

This endpoint accepts GET and POST requests. Depending on the method used, it returns a list containing all the orders created by the user or creates a new order if the fields sent are valid.

GET /api/orders/

HTTP 200 OK


Allow: GET, POST, HEAD, OPTIONS

Content-Type: application/json

Vary: Accept

```
[
  {
    "id": 1,
    "profile": "admin",
    "status": true,
    "created_at": "09/09/2021, 12:40:38",
    "executed_at": null,
    "price": 100.0,
    "quantity": 0.5,
    "type": "S"
  }
]
```





```
GET /api/orders/1/
```

```
HTTP 200 OK
```

```
Allow: GET, DELETE, HEAD, OPTIONS
```


```
Content-Type: application/json
```

```
Vary: Accept
```

```
{  
  "id": 1,  
  "profile": "admin",  
  "status": true,  
  "created_at": "09/09/2021, 12:40:38",  
  "executed_at": null,  
  "price": 100.0,  
  "quantity": 0.5,  
  "type": "S"  
}
```

/api/orders/order_id/

This endpoint accepts GET and DELETE requests. Depending on the method used, it returns the details of a specific order created by the user or deletes it if it has not yet been executed.





/api/orders/latest/

This endpoint accepts GET requests and returns a list containing all active orders created by other users.

```
GET /api/orders/latest/
```

```
HTTP 200 OK
```

```
Allow: GET, HEAD, OPTIONS
```

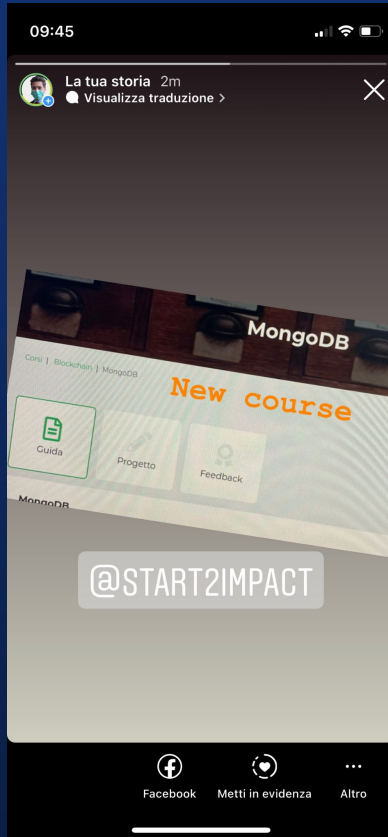
```
Content-Type: application/json
```

```
Vary: Accept
```

```
[  
  {  
    "id": 1,  
    "price": 100.0,  
    "quantity": 0.5,  
    "type": "S",  
    "created_at": "09/09/2021, 12:40:38"  
  }  
]
```



Bonus Mentoring



THANKS



Source code on [GitHub](#)
Live demo on [Amazon AWS](#)
My profile on [Start2Impact](#)
My profile on [Linkedin](#)



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