

Bitcoin Exchange Webapp: Revolutionizing Online Digital Currency Trading

Welcome to the future of digital currency trading! In this presentation, we will explore the exciting features and functionalities of our cutting-edge bitcoin exchange webapp.

● **by Emanuele Bashuri**



Project Requirements

Our bitcoin exchange webapp is designed to meet the needs of modern cryptocurrency traders. Key features include:

1 Sign-up and Sign-in System

Securely register and log in to your account to access the platform's functionalities.

2 Automatic Bitcoin Assignment

Receive your bitcoins automatically upon successful registration.

3 Buy and Sell Orders

Post your buy and sell orders to the platform, facilitating convenient trading opportunities.

4 Transaction Registration

Track and record each transaction when two orders are matched, ensuring transparency in the trading process.

5 Active Orders Endpoint

Access an endpoint that provides real-time information about active orders.

6 Transactions and Profit/Loss

Explore an endpoint that offers comprehensive details about transactions and insights into profit and loss.

User Authentication System

Our secure and user-friendly sign-up/sign-in system allows you to create an account and access all the features of our web app. Safely manage your transactions and enjoy a seamless trading experience. Join our community today!

Bitcoin Exchange

Sign Up

Username: Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Email address:

Password:

Your password can't be too similar to your other personal information.
Your password must contain at least 8 characters.
Your password can't be a commonly used password.
Your password can't be entirely numeric.

Password confirmation: Enter the same password as before, for verification.

Bitcoin Exchange

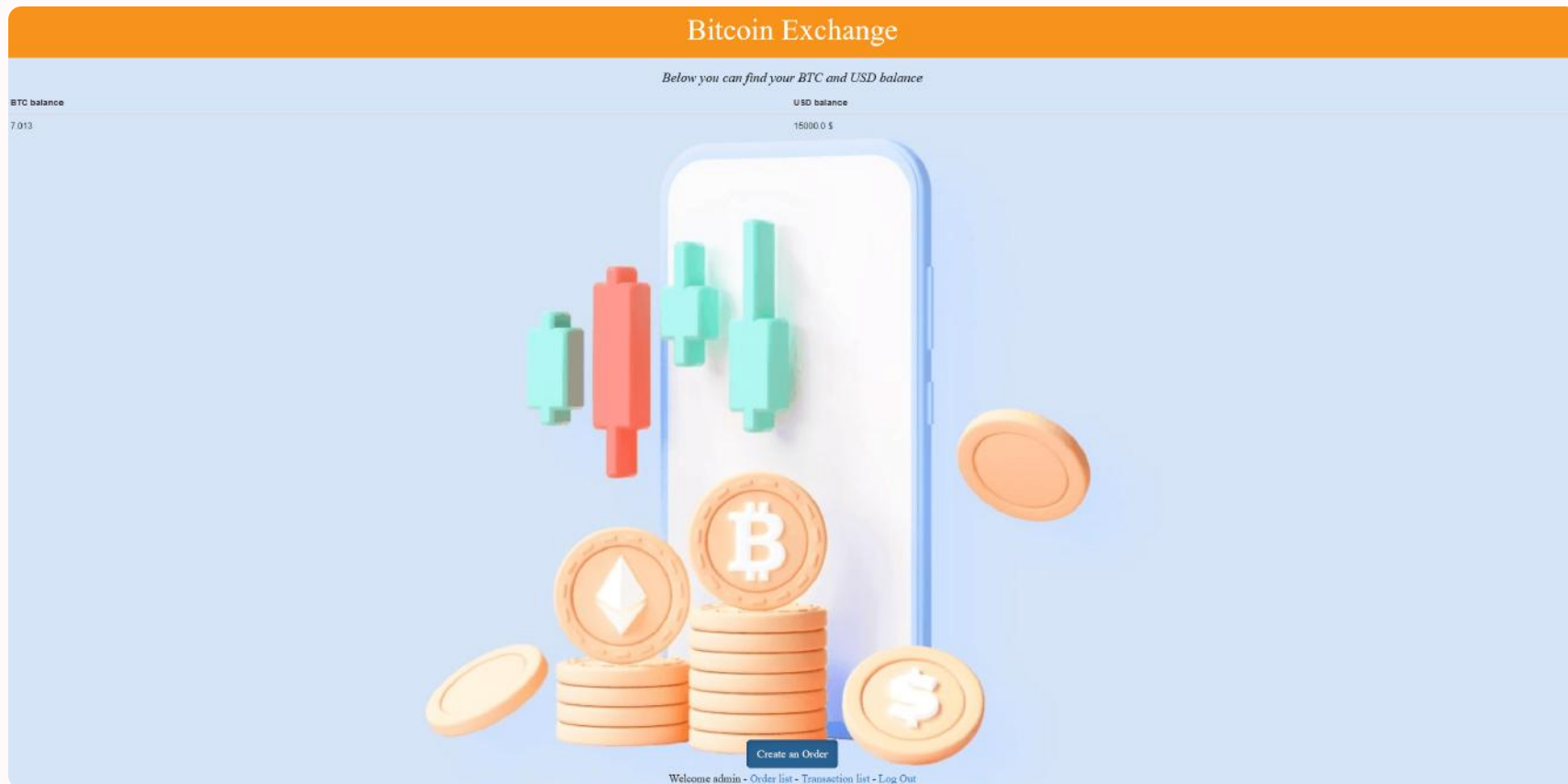
Login

Username:

Password:

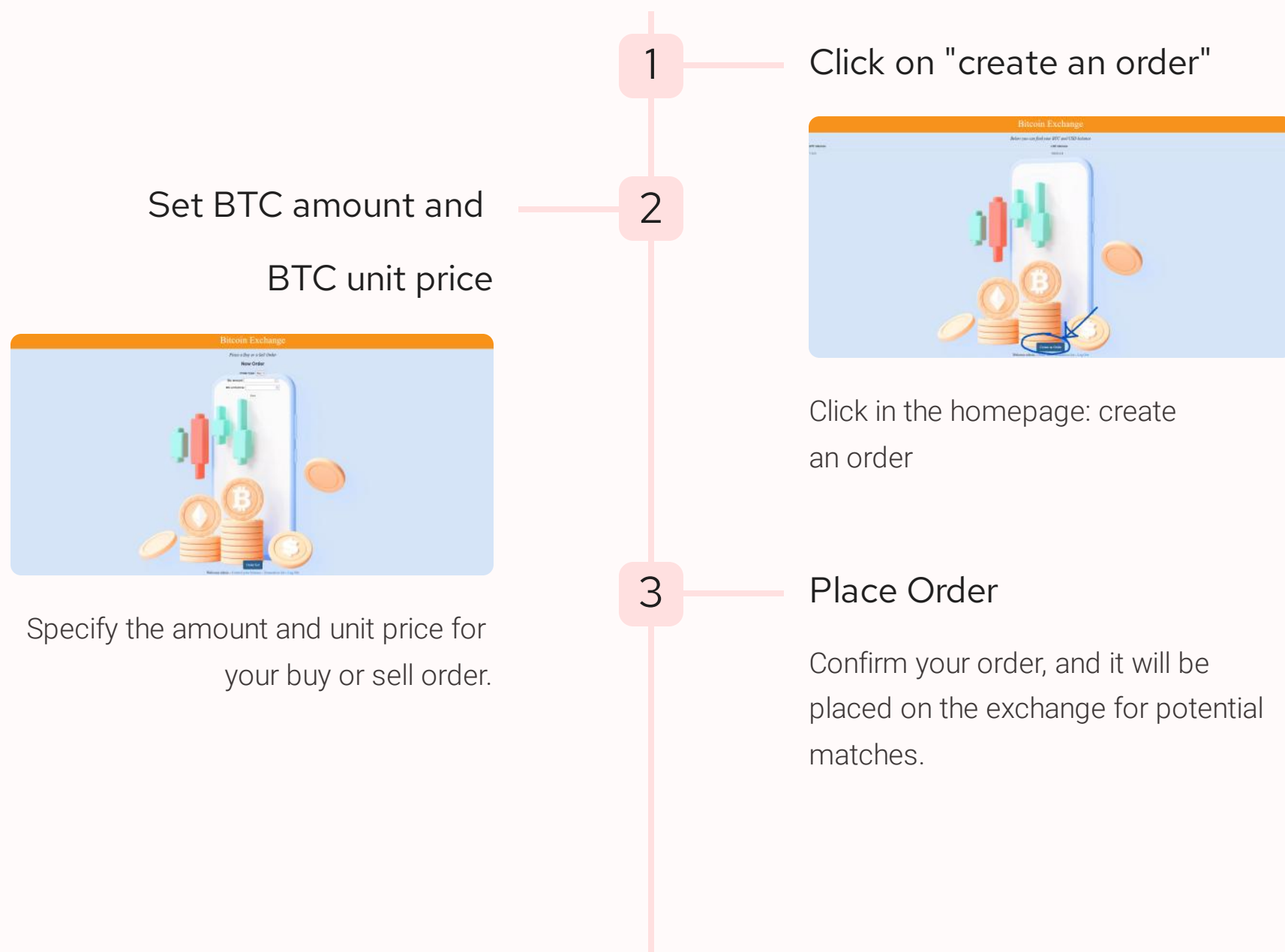
Homepage

Discover an intuitive user interface on our homepage that simplifies cryptocurrency trading. Access your account, view BTC and USD balance, and explore recent transactions effortlessly.



Create an Order: Seamless Trading in a Few Clicks

Easily create buy or sell orders on our webapp with just a few clicks. Take advantage of our easy order creation process:



Matching Orders System: Seamlessly Connecting Traders

Our matching orders system fosters seamless connections between buyers and sellers, streamlining the trading process:

1

Order Matching System

Explore the system behind matching orders , ensuring fair trade executions.

2

Real-time Trade Executions

Experience instant trade executions when buy and sell orders match, providing unparalleled trading efficiency.

3

Order List

See all the buy and sell orders that are still open

Bitcoin Exchange

Below you can find the order list

User	Order type	Order status	Btc amount	Btc unit price	Total price	Date
normal	buy	open	3.0	1000.0 \$	3000.0 \$	Nov. 1, 2023, 4:58 p.m.
normal	buy	open	3.0	1000.0 \$	3000.0 \$	Nov. 1, 2023, 4:58 p.m.
normal	buy	open	0.42	100.0 \$	42.0 \$	Nov. 1, 2023, 4:56 p.m.
admin	sell	open	8.0	5000.0 \$	40000.0 \$	Oct. 31, 2023, 2:43 p.m.
admin	buy	open	0.5	3500.0 \$	1750.0 \$	Oct. 31, 2023, 2:42 p.m.
admin	buy	open	1.0	5000.0 \$	5000.0 \$	Oct. 31, 2023, 2:42 p.m.

4

Transaction List

See all the buy and sell orders that are closed succesfully

Bitcoin Exchange

Below you can find your transaction list

Buyer	Seller	Btc amount	Btc unit price	Date	Profit/Loss
admin	normal	1.0	60.0 \$	Nov. 1, 2023, 4:59 p.m.	+ 0.0 \$
admin	normal	1.0	6000.0 \$	Nov. 1, 2023, 4:58 p.m.	+ 0.0 \$
normal	admin	0.1	60.0 \$	Nov. 1, 2023, 4:56 p.m.	+ 2.0 \$
normal	admin	1.0	6000.0 \$	Oct. 31, 2023, 2:43 p.m.	+ 0.0 \$

Made with Gamma

MongoDB Matching Order System Example:

```
▶ _id: ObjectId('654110a713e080eb81cab3ec')
  author_id: 3
  datetime: 2023-10-31T14:35:19.225+00:00
  order_type: "buy"
  status: "closed"
  btc_amount: 0
  btc_unit_price: 5000
  total_price: 5000
```

+

```
▶ _id: ObjectId('654112755f8e1ded4175bc47')
  author_id: 5
  datetime: 2023-10-31T14:43:01.177+00:00
  order_type: "sell"
  status: "closed"
  btc_amount: 0
  btc_unit_price: 5000
  total_price: 5000
```

=

```
_id: ObjectId('654112755f8e1ded4175bc48')
buyer_id: 3
seller_id: 5
btc_amount: 1
btc_unit_price: 5000
total_price: 5000
profit_loss: 0
datetime: 2023-10-31T14:43:01.188+00:00
```

MongoDB Database: Powering the Future of Bitcoin Trading

Our webapp is backed by the robust MongoDB database, enabling seamless trade orders and efficient data management:



Highly Scalable

Benefit from a highly scalable database architecture designed to handle the complexities of cryptocurrency trade orders.



Rapid Data Processing

Access lightning-fast data processing capabilities, ensuring real-time transaction tracking and seamless trade execution.



Advanced Security Measures

Rest assured knowing that your trading activities and personal information are protected by advanced security measures.

Thank You and Resources

Thank you for joining us today and exploring Our bitcoin exchange webapp. You can access our project resources through the following links:

1 GitHub Repository

Explore our project's codebase and contribute to its development on our GitHub repository: https://github.com/Kagutaku/Start2Impact-BitcoinExchange_Django-MongoDB

2 User Credentials

Use the following credentials to access our webapp:

username: normal password: 12a34b56c

username: admin password: 87654321Z