

# Satoshi-Box Using Blockonomics

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## Feature Requirements

### A. Seller

- a. Upload file to sell (max size - 5 mb)
- b. Description for the file (optional)
- c. Price of the file (choice)
  - i. BTC
  - ii. BCH
- d. Gets a token
  - i. Token can be used for
    - 1. Watching all purchases of the file
    - 2. Withdraw the net amount to your wallet
- e. Get a public URL to share

### B. Buyer

- a. Uses URL to land on interface
- b. Pays using normal checkout interface
- c. Gets the file upon confirmation

## Technical Design

### Schema Design

#### 1. Products Table

- a. token - secret token used for withdraw
  - i. DataType - **UUID**
- b. uid - Public identifier
  - i. DataType - **UUID**
  - ii. **PRIMARY\_KEY**
- c. product\_name - Mini public description of product
  - i. DataType - **string**
- d. product\_description - Detailed public description of product
  - i. DataType - **string**
- e. secret\_description - description visible only after purchase
  - i. DataType - **string**
- f. price in fiat
  - i. DataType - **float**

g. currency (USD/EUR/INR etc..)

i. DataType - **string**

## 2. Files Table

a. id

i. DataType - **auto\_increment integer**

ii. **PRIMARY\_KEY**

b. uid

i. DataType - **UUID**

c. file\_data

i. DataType - **File**

## 3. Payments Table

a. uid

i. DataType - **UUID**

b. address (will be used by buyer to track it's payment status and the files)

i. DataType - **string**

ii. **PRIMARY\_KEY**

c. crypto (BCH/BTC)

i. DataType - **string**

d. status\_of\_transaction

i. DataType - **Integer**

e. expected\_value - Expected amount in satoshi of BCH/BTC

i. DataType - **Integer**

f. received\_value - Received amount in satoshi of BCH/BTC

i. DataType - **Integer**

g. txid

i. DataType - **string**

h. timestamp

i. DataType - **DateTime**

i. order\_id (used by buyer to get repeated access to the files)

i. DataType - **string**

ii. Reference - [Link](#)

## System API's

### 1. POST /api/create\_record (meant for Seller)

a. Request Params

i. Files

ii. BTC/BCH

iii. Price

iv. Currency

v. File Name (visible to everyone)

vi. File Description (visible to everyone)

vii. Secret Description (visible to paid users)

b. Response Params

- i. JSON( status\_code, uid, token)

## 2. GET /api/track\_record (meant for Seller)

- a. Request Params
  - i. uid
  - ii. token
- b. Response Params
  - i. JSON(status\_code, payment\_history, net\_withdrawable\_amount, total\_confirmed\_purchases)

## 3. POST /api/withdraw (meant for Seller)

- a. Request Params
  - i. token
  - ii. uid
  - iii. address
- b. Response Params
  - i. JSON(status\_code, message)

## 4. GET /api/payment\_history (meant for Seller)

- a. **NEEDS TO BE DESIGNED**

## 5. GET /api/display\_record (meant for buyer)

- a. Request Params
  - i. uid
- b. Response Params
  - i. JSON (status\_code, product\_name , product\_description , price in crypto, type of crypto)

## 6. GET /api/receive\_payment (meant for buyer)

- a. Request Params
  - i. uid
- b. Response Params
  - i. JSON( status\_code, uid, btc\_address, order\_id, converted\_to\_crypto\_price, start\_timestamp, expiry\_timestamp, duration)

## 7. GET /api/track\_order (meant for buyer)

- a. Request Params
  - i. Order\_id
- b. Response Params
  - i. JSON(status\_code, uid, status, file\_name, file\_description) + (if payment successful) JSON(secret\_description, files)

# User Story

## 1. Buyer

- a. Lands on the website => chooses to buy files
- b. Enters the *UID* to purchase the files
- c. Lands on buying page of that *UID*
- d. Makes the Payment => Gets an *order\_id* to track payment status and continuous access to files.
- e. Opens Buyer Tracking Center => enters *order\_id* and gets transaction status and if transaction is successful => access to files

## 2. Seller

- a. Lands on the website => chooses to sell files
- b. Lands on selling page
- c. Seller Uploads Files, chooses payment type (BTC/BCH/both?), choose the amount and currency (USD/INR/EUR...etc) and upload content.
- d. Receives => token (used for withdrawal), uid (that should be shared with others)
- e. Opens Seller Tracking Center => enters *uid* and *token*, a list of purchases appear, net withdrawal amount displayed.
- f. Clicks on withdrawal => enters the address and initiates payment request.