

VALR Website test

Part 1: Home Screen & Search

Duplicate the page in the screenshot below, ignoring the red sections.

The search should support full block hashes. Clicking the “Search” button with a valid block hash in the search input should navigate to the block screen and fetch the detailed info for that block.

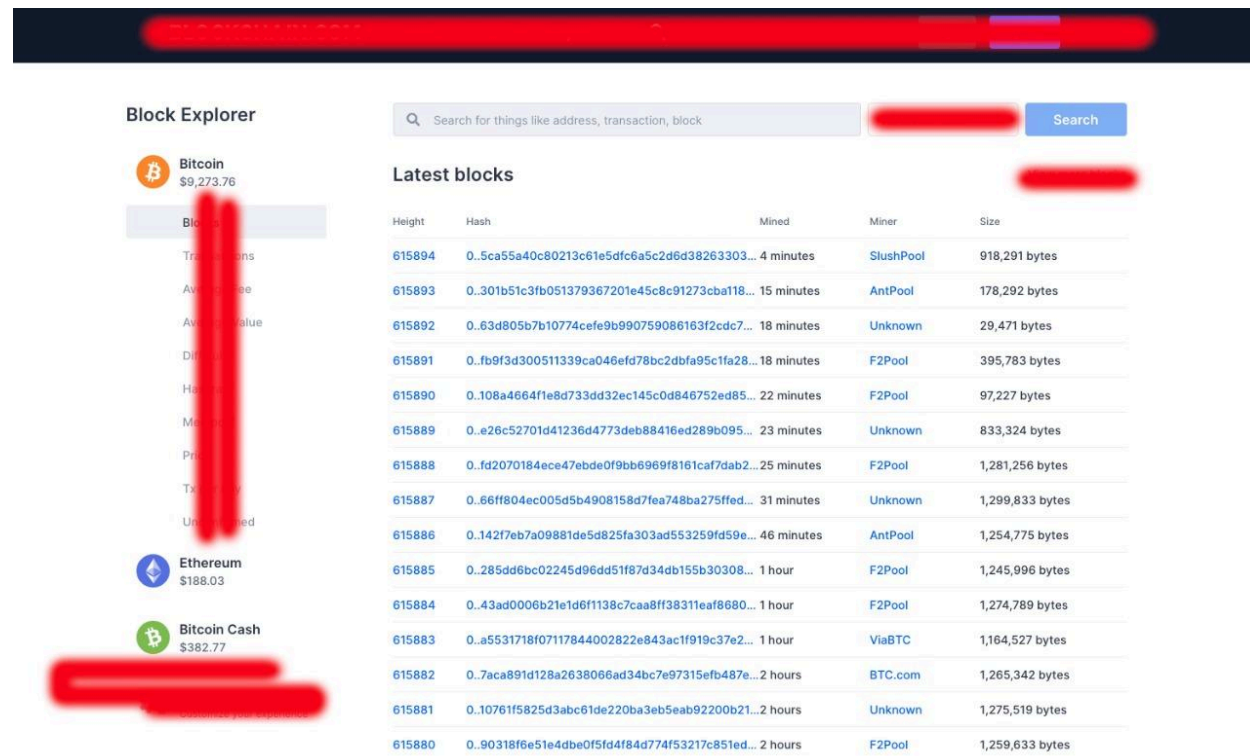
This project is based on an older version of blockchain explorer, <https://www.blockchain.com/explorer>. The designs have changed, however the API calls and functionality remain the same. Feel free to play around with their site & inspect the requests it makes.

A valid block hash to search for is

“0000000000000000005ca55a40c80213c61e5dfc6a5c2d6d38263303ead1468”. Pressing search should take you to the block screen, eg

<https://www.blockchain.com/btc/block/0000000000000000005ca55a40c80213c61e5dfc6a5c2d6d38263303ead1468>

If at any point in time you have any questions, feel free to ask. Communication is key!




The screenshot shows the Blockchain Explorer website. The search bar and search button are highlighted in red. The table below lists the latest blocks.

Height	Hash	Mined	Miner	Size
615894	0..5ca55a40c80213c61e5dfc6a5c2d6d38263303...	4 minutes	SlushPool	918,291 bytes
615893	0..301b51c3fb051379367201e45c8c91273cba18...	15 minutes	AntPool	178,292 bytes
615892	0..63d805b7b10774cefe9b990759086163f2cdc7...	18 minutes	Unknown	29,471 bytes
615891	0..fb9f3d300511339ca046efd78bc2dbfa95c1fa28...	18 minutes	F2Pool	395,783 bytes
615890	0..108a4664f1e8d733dd32ec145c0d846752ed85...	22 minutes	F2Pool	97,227 bytes
615889	0..e26c52701d41236d4773deb88416ed289b095...	23 minutes	Unknown	833,324 bytes
615888	0..fd2070184ece47ebde0f9bb6969f8161caf7dab2...	25 minutes	F2Pool	1,281,256 bytes
615887	0..66ff804ec005d5b4908158d7fea748ba275ffed...	31 minutes	Unknown	1,299,833 bytes
615886	0..142f7eb7a09881de5d825fa303ad553259fd59e...	46 minutes	AntPool	1,254,775 bytes
615885	0..285dd6bc02245d96dd51f87d34db155b30308...	1 hour	F2Pool	1,245,996 bytes
615884	0..43ad0006b21e1d6f1138c7aa8ff38311eaf8680...	1 hour	F2Pool	1,274,789 bytes
615883	0..a5531718f07117844002822e843ac1f919c37e2...	1 hour	ViaBTC	1,164,527 bytes
615882	0..7aca891d128a2638066ad34bc7e97315efb487e...	2 hours	BTC.com	1,265,342 bytes
615881	0..10761f5825d3abc61de220ba3eb5eab92200b21...	2 hours	Unknown	1,275,519 bytes
615880	0..90318f6e51e4dbe0f5fd4f84d774f53217c851ed...	2 hours	F2Pool	1,259,633 bytes

The block hashes in the above list need to be clickable and should take you to the same page as the search would have done.

Part 2: Single Block screen



The screenshot shows the top of the blockchain.com website with a red header. Below the header, the page title 'BTC / Block' is visible. The main content area shows details for a specific Bitcoin block at depth 615894.


BTC / Block	
Block at depth 615894 in the Bitcoin blockchain	
Hash	0000000000000000000000005ca55a40c80213c61e5dfc6a5c2d6d38263303ead1468
Confirmations	2
Timestamp	2020-02-04 06:34
Height	615894
Miner	SlushPool
Number of Transactions	2,091
Difficulty	15,466,098,935,554.65
Merkle root	4f16170a2d004c7835ae26615e4865598f0bf36a9d2550307058155ef1c034bc
Version	0x20c00000
Bits	387,068,671
Weight	2,928,570 WU
Size	918,291 bytes
Nonce	63,746,160
Transaction Volume	4309.69952952 BTC
Block Reward	12.50000000 BTC
Fee Reward	0.09776762 BTC

Important notes

- Use APIs from <https://www.blockchain.com/api> and especially useful are these ones: https://www.blockchain.com/api/blockchain_api
- "Miner" info can be gleaned from the "Methodology" here: <https://www.blockchain.com/pools>
- Blockchain.com's API is using CORS headers which will prevent their endpoints from being called directly. To overcome this, [please install and activate this CORS extension for chrome](https://chrome.google.com/webstore/detail/allow-cors-access-control/lhobafahddgcelffkeicbaginigeeljf?hl=en) (<https://chrome.google.com/webstore/detail/allow-cors-access-control/lhobafahddgcelffkeicbaginigeeljf?hl=en>)
- Please avoid using style component libraries (eg bootstrap, material UI) for this project. We'd like you to replicate the designs below as accurately as possible using your own css. You are permitted to use a css-in-js solution eg. [styled-components](https://styled-components.com/) (<https://styled-components.com/>)
- Please use the screenshots above as a design brief. We'd like you to get as close to these screenshots as possible using your own css.
- Cryptocurrency icon SVGs can be found on the blockchain.com website.
- Not all of the information shown above is available straight from the API responses. Some data is derived or aggregated from multiple sources. You will need to do some digging!
- The search section only needs to support searching for BTC block hashes, don't implement searching for ETH or BCH.

Part 3: Transactions

Transactions

			
Hash	ad0895632b4ad17b9902bf5d3b51c2b1744691f2b4c53157600b3a...		2020-02-04 06:34
	COINBASE (Newly Generated Coins)	➔	1CK6KHY6MHgYvmRQ4PAafKYDRg1ejbHtCE 12.59776762 BTC
			OP_RETURN 0.00000000 BTC
			OP_RETURN 0.00000000 BTC
Fee	0.00000000 BTC (0.000 sat/B - 0.000 sat/WU - 290 bytes)		12.59776762 BTC
			2 Confirmations
Hash	0c1b2b93abb8eddb43c420b46362618776f78f9577cca686a272a7...		2020-02-04 06:29
	bc1qwqdg6squsna38e46795at95yu9atm8azz... 0.01030895 BTC	➔	3NzmHZFNsdP1y3p6BtHKdJuvQKrsRcAPA 0.00511700 BTC
			bc1qwqdg6squsna38e46795at95yu9atm8azz... 0.00429195 BTC
Fee	0.00090000 BTC (236.842 sat/B - 118.734 sat/WU - 380 bytes)		0.00940895 BTC
			2 Confirmations
Hash	2bf1d541d9ce7d8e10cbe75e238d0aa6cd922e1bae710b36bb66a7d...		2020-02-04 06:30
	bc1qjl6rlsrhx0cd5fu2zsla02utdj6t2auwl98vd 0.24051003 BTC	➔	1MYSzDwJD2KtJWWuwYKrb4hGMX1Kk472Mj 0.00053000 BTC
	bc1qjxdejnt9khzfvpm4ghhm3rtjl2r5cwl03x0q55 0.22135603 BTC		35Av5hvpLdJZPYiVXzcVxBWznwoLSnBDqS 0.00834893 BTC
			3QHchqGtTnCY1PWx8CDbb1NCpSDCW8Zohfw 0.01098068 BTC
			18kAXPgZuQrgjAWJGLxTn7SPHr7tRac2iv 0.04547133 BTC
			33u66TKfVF5UfVhUhtWtVy7ni6tjEFzWQ 0.18881438 BTC
			bc1qaxd67vvfwyymgevt8z3gke6rarkrc50yp42... 0.20671166 BTC

You can have a **simplified version of the above transactions** section at the bottom of the block screen, where you only show the Hash, from address, to address(s) and amounts. No links need to be clickable on this page.

Resources

The following endpoints are not listed in the documentation, but may still be useful:

- <https://api.blockchain.info/haskoin-store/btc/block/heights?heights=¬x=true&cors=true>
- <https://api.blockchain.info/haskoin-store/btc/transactions?txids=&cors=true>