

PROJECT SPECIFICATION

Build a Private Blockchain Notary Service

Blockchain ID validation routine

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Web API post endpoint validates request with JSON response. Resources	Response should contain message details, request timestamp, and time remaining for validation window. User obtains a response in JSON format with a message to sign. Message format = [walletAddress]:[timeStamp]:starRegistry The request must be configured with a limited validation window of five minutes. When re-submitting within validation window, validation window should reduce until it expires. URL: http://localhost:8000/requestValidation
Web API post endpoint validates message signature with JSON response. Resources	Web API post endpoint validates message signature with JSON response. Upon validation, the user is granted access to register a single star. URL: http://localhost:8000/message-signature/validate

Star registration Endpoint

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Web API Post Endpoint with JSON response. Resources	Star object and properties are stored within the body of the block. Star properties include the coordinates with encoded story. Star story supports ASCII text, limited to 250 words (500 bytes), and hex encoded. URL: http://localhost:8000/block

Star Lookup

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Get star block by hash with JSON response. Resources	Response includes entire star block contents along with the addition of star story decoded to ascii. URL: http://localhost:8000/stars/hash:[HASH]
Get star block by wallet address (blockchain identity) with JSON response. Resources	Response includes entire star block contents along with the addition of star story decoded to ascii. Multiple stars might be registered to a single blockchain identity. The response should support multiple star blocks. URL: http://localhost:8000/stars/address:[ADDRESS]
Get star block by star block height with JSON response. Resources	Response includes entire star block contents along with the addition of star story decoded to ascii. URL: http://localhost:8000/block/[HEIGHT]