idea

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# Trust My Identity

solving Track 1 – Identity Management and APIs

while dabbling in Track 3 – Data Aggregation and Linkage

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Credentialing is costly and time-consuming …

… it is re-documented and re-verified at each step of a provider's career.

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## inaccurate information

Payer have non-standard provider data structures-Legacy systems store data in multiple disconnected databases

## cumbersome processes

Latency in updates
Complex and dynamic data

## limited sharing

Multiple versions of data
Need based siloed data

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## What did we use?

- IPFS
- Monax Blockchain (Ethereum + Tendermint)
- BigChain DB (BFT + NoSQL DB)

## How do we manage identity?

- Manage attestation by running a smart contract system based on DOUG
- Enforce digital signatures for persistent Primary Source Verification

## How do we link data?

- Consensus-controlled authority
- Linked payloads in BigChain DB
- Split data from the blockchain with pointers

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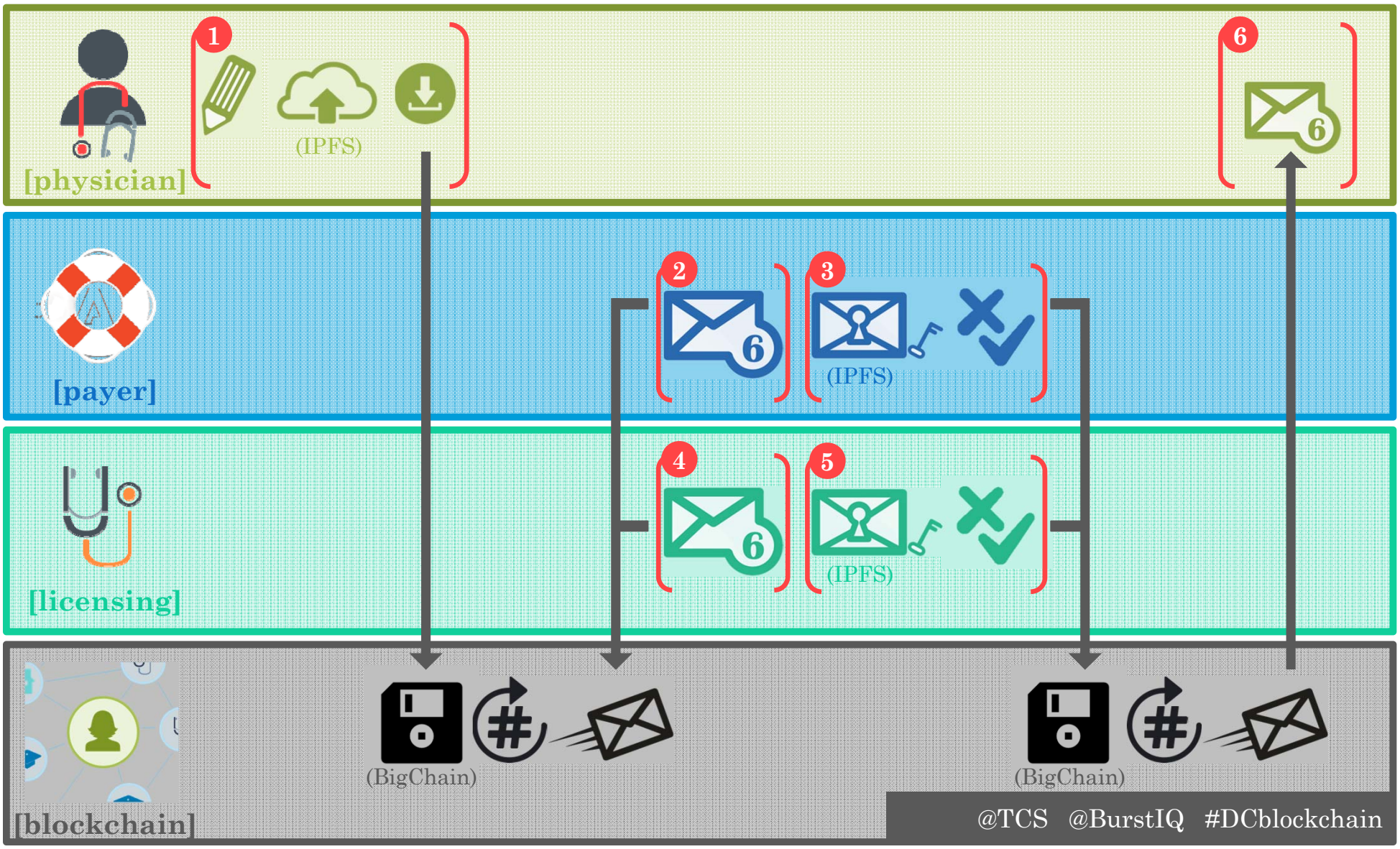

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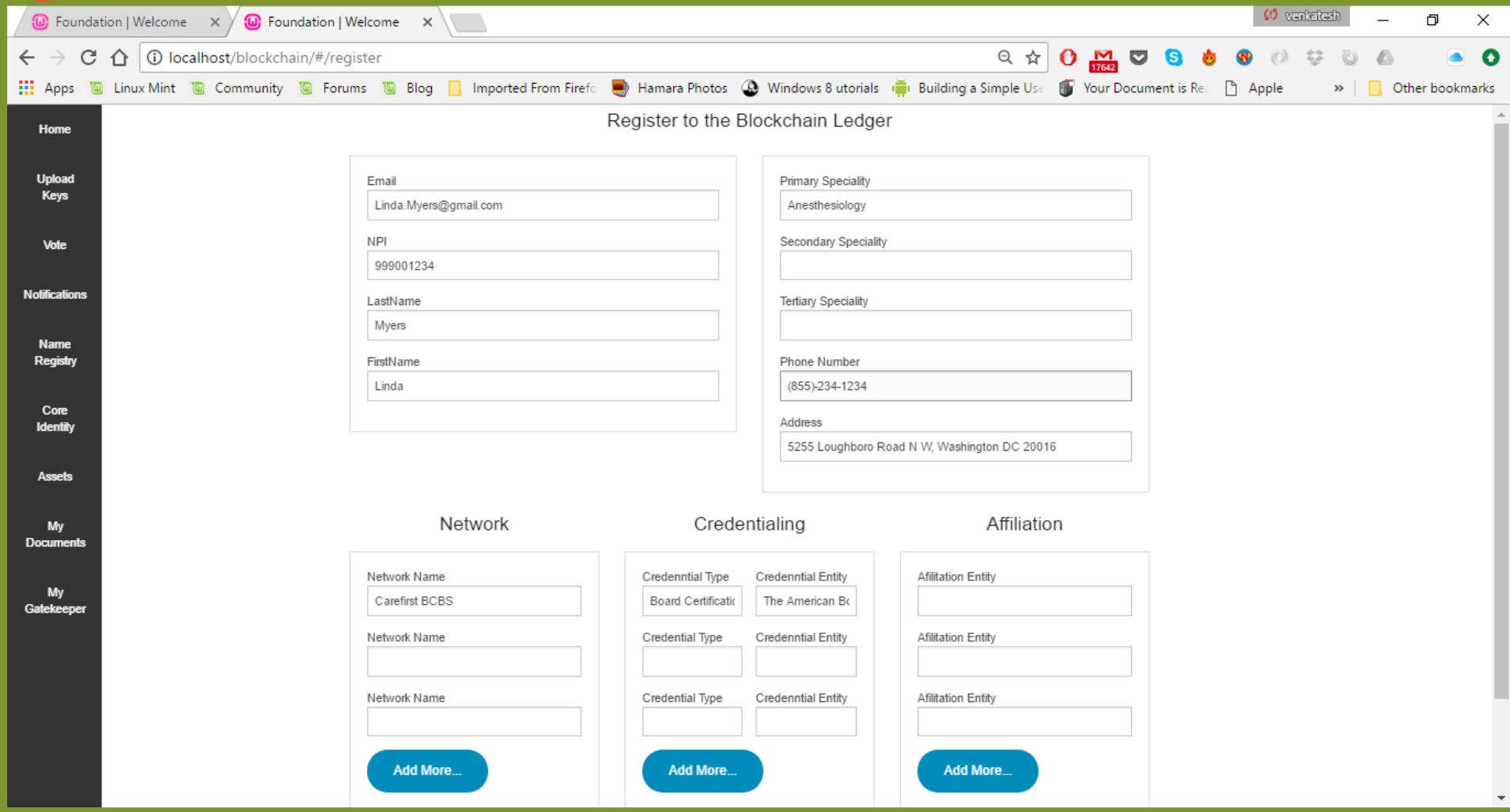
# 1 Physician creates a profile



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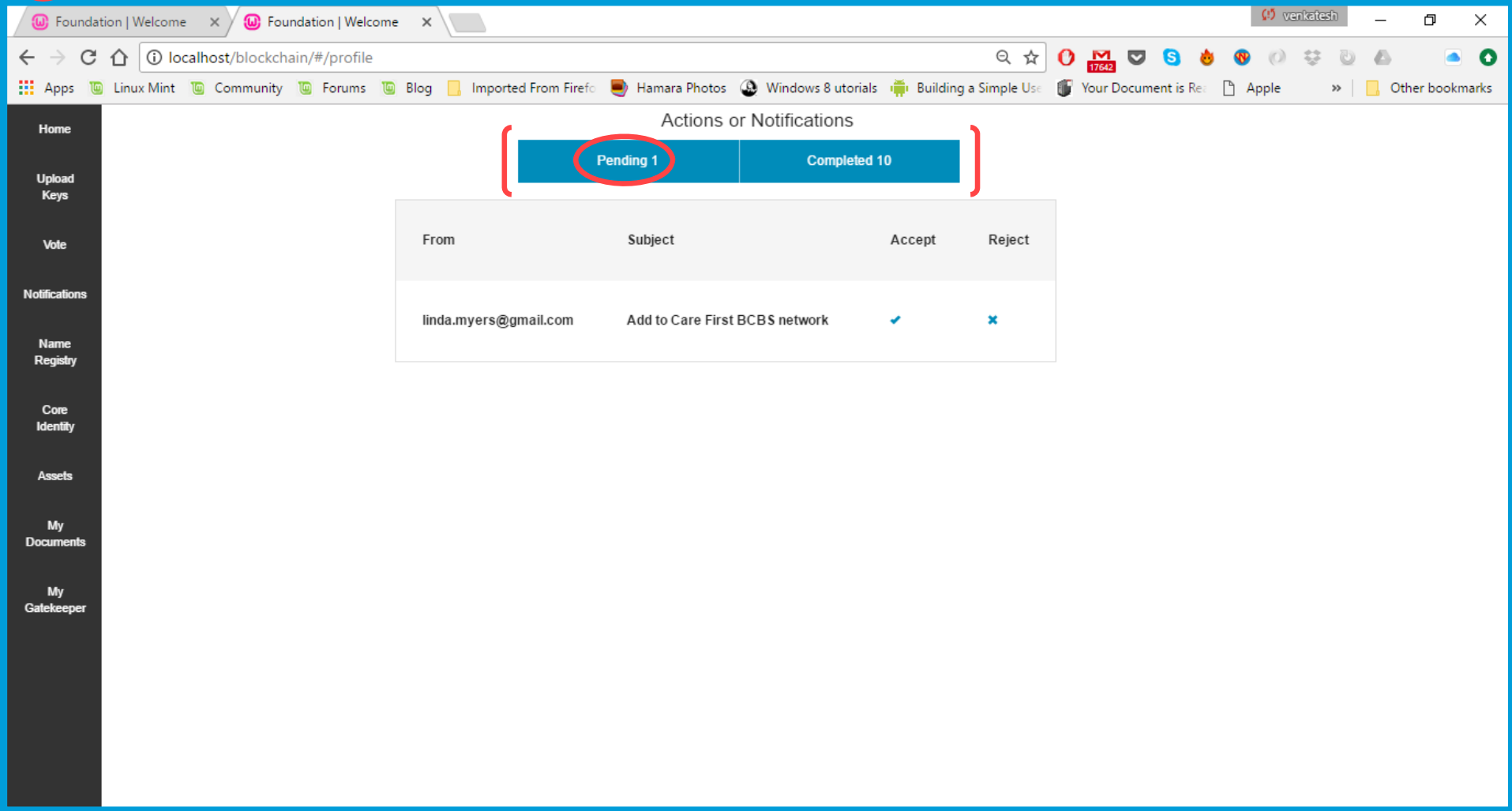
# 2 Payer receives a trigger to verify network affiliation



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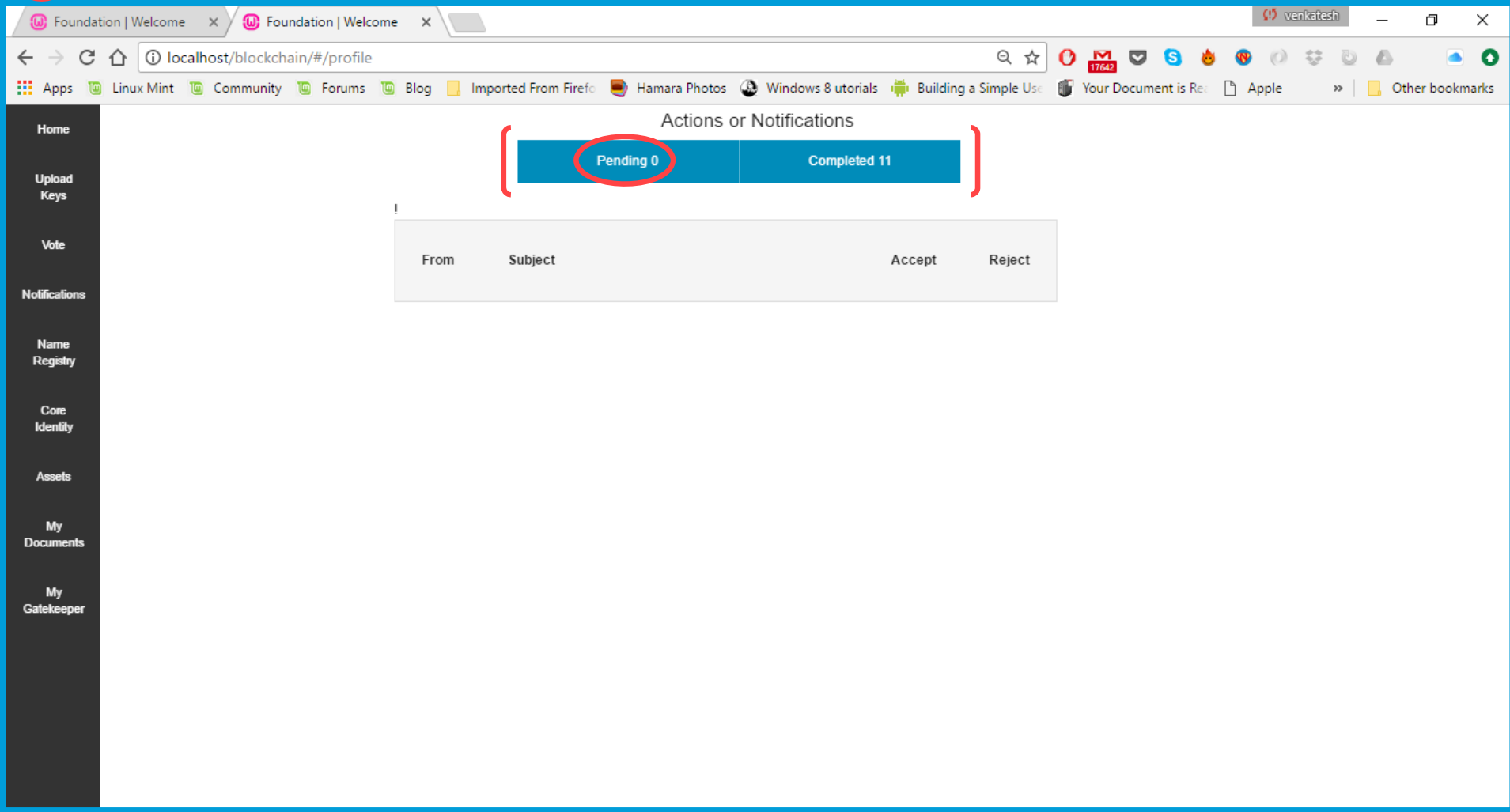
# 3 Payer certifies network affiliation



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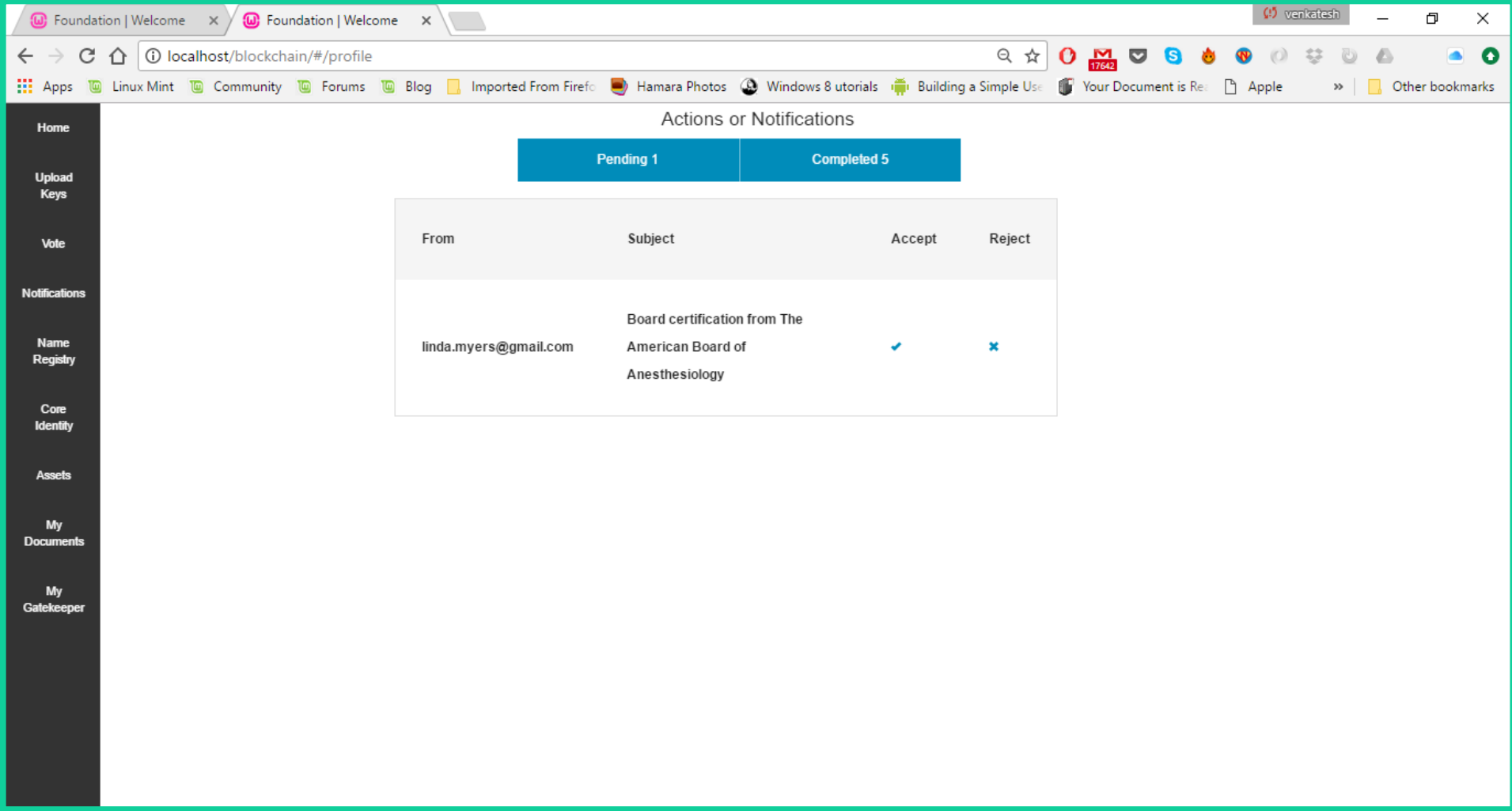
# 4 Board receives a trigger to verify clinical specialty



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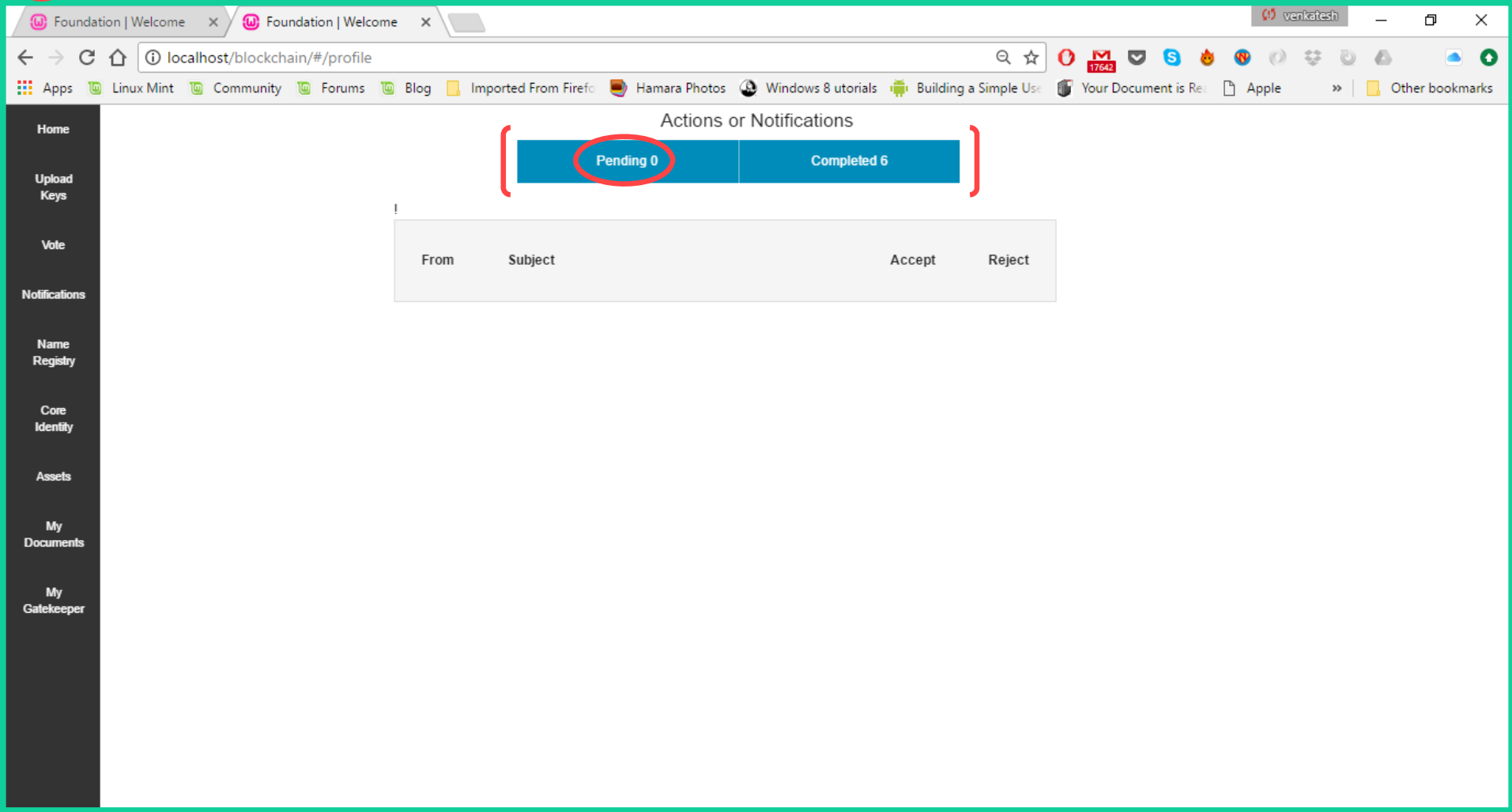
next up

# 5 Board rejects clinical specialty



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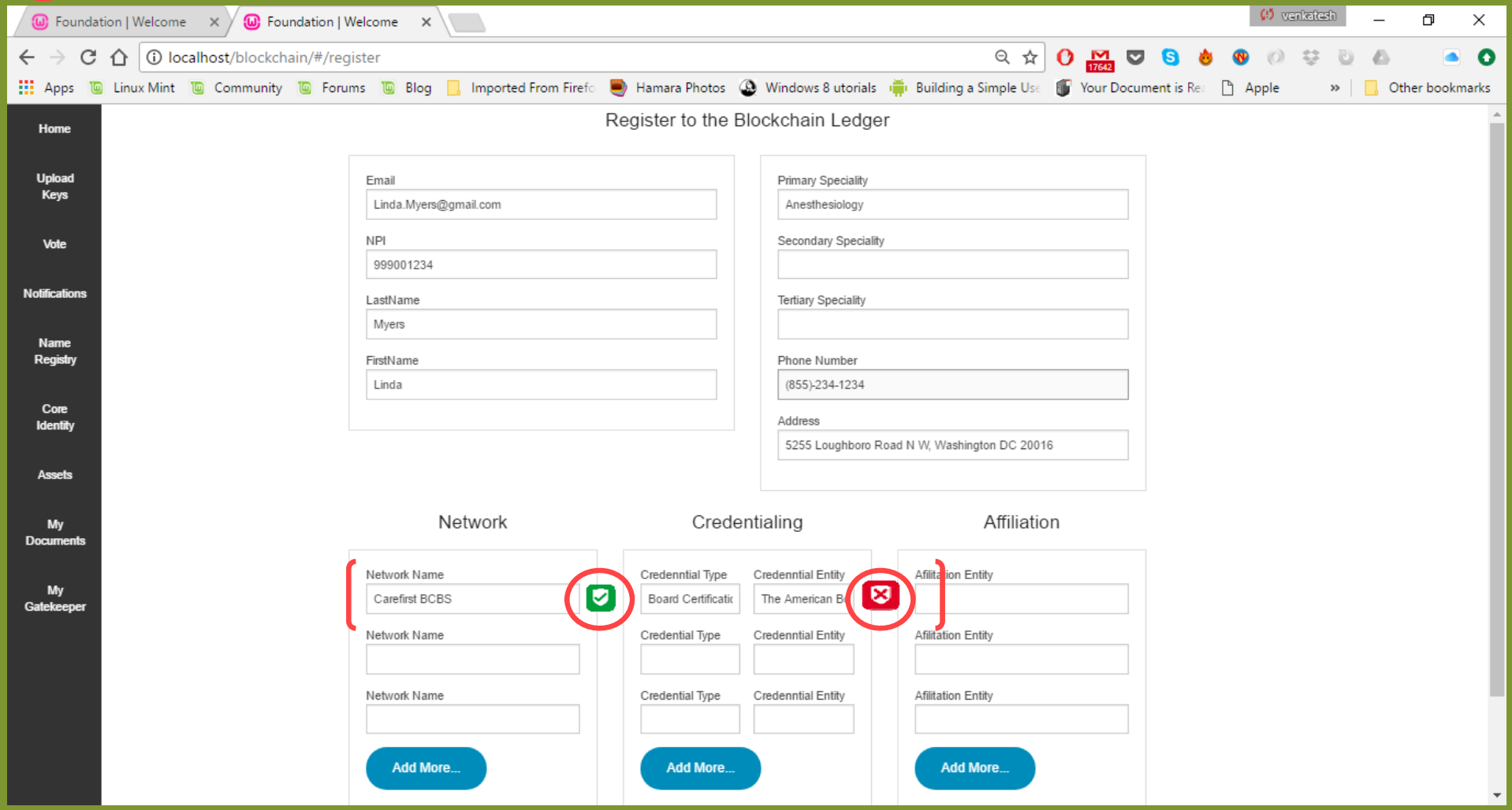
# 6 Physician profile is update + Physician is notified of attestations



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[patient]

[physician]

[practices]

[payer]

[licensing]

[regulatory]

| **Distributed Provider Directory drives** | | | | | | |
|---|---|---|---|---|---|---|
| Accurate provider information | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Faster credential verification | | ✓ | ✓ | ✓ | ✓ | ✓ |
| Asynchronous + real-time updates by multiple entities | | ✓ | ✓ | ✓ | | |
| Patient-centered care options | ✓ | ✓ | ✓ | ✓ | | |
| Interoperability at scale, on steroids | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| **… and facilitates** | | | | | | |
| Transition to value-based payment models | ✓ | ✓ | ✓ | ✓ | | ✓ |
| Improved care coordination | ✓ | ✓ | ✓ | ✓ | | ✓ |
| Easier population health analytics + reporting | ✓ | ✓ | ✓ | ✓ | | ✓ |

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1. Include blockchain as a recommended tech in the design + implementation of distributed provider directories

2. Encourage recipients of CMS funding to invest in developing distributed provider directories

3. Provide education on use cases + advantages of blockchain

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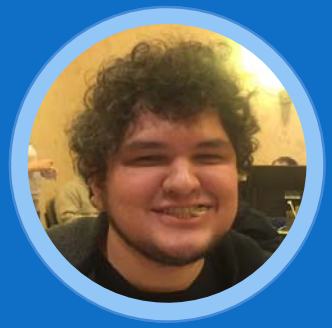
**Uppi Reddy**

**Andreas Freund**

**Venky Raghunathan**



**Shane Giehll**

**Lily Bragg**

TATA CONSULTANCY SERVICES + burstIQ

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