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## **EE/CprE/SE 491 WEEKLY REPORT 02**

**28 September 2019 – 11 October 2019**

**Group number:** 12

**Project title:** Applying Blockchain to Energy Delivery Systems

**Client:** Grant Johnson

**Advisor:** Manimaran Govindarasu

**Team Members:**

Anthony Cosimo - *Test Engineer*

Jacob Dawson - *Project Manager*

Keegan Bloedel - *API Architect*

Katherine Ringgenberg - *UI Architect*

Steven Rein - *Software Architect*

Dakota Moore - *Cybersecurity Manager*

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- **Weekly Summary**

- The overall objective of the week was to complete the entire design document version one, even if some of the information may change. We set this as a goal and accomplished it. Now as we progress and gather more information from the client, the advisor, and prototyping, we can make edits to the document such as updating technologies to use and update use cases. Additionally, we reestablished our roles in the team, and organized those roles to fit the software engineering context better.

- **Individual contributions**

Name	Individual Contributions (Quick list of contributions. This should be short.)	Hours this Week	Hours Cumulative
Anthony Cosimo	Worked on Lightning talk, and design document. Read through articles/tutorials of Hyperledger Fabric.	8	14
Jacob Dawson	Worked on lightning talk, design document, and worked through Hyperledger Convector tutorials	12	21
Keegan Bloedel	Worked on setting up Hyperledger Convector tutorials. Set up systems to try and run locally on my computer	8	14
Katherine Ringgenberg	Lightning talk, design document, working on trying to get tools running locally, tutorials	8	8
Steven Rein	Worked on the completion of the first version of the design document. Researched different technologies and how to implement them.	10	16
Dakota Moore	Worked on the completion of design document v1, helped update the team website, worked on the project plan lightning talk, and	8	14

	started to prototype with smart contracts.		
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- **Plans for the Upcoming Week**

- Anthony Cosimo will work on continuing to learn about smart contracts. Continue to work on Design Document.
- Jacob Dawson will work on HyperLedger Fabric and Convector tutorials and prototyping. Work on Design Document to prep for version 4, and upcoming lightning talk.
- Keegan Bloedel will work on helping to finish the design document. Finish downloading and implementing HyperLedger Fabric and set it up locally. Research more of the steps to work off of going forward.
- Katherine Ringgenberg will work on further research on composer/convector, getting through tutorials locally (local setup). Specifically, Katie will work on the Smart Contracts tutorial and API tutorial
- Steven Rein will work on prototyping for the Smart Contract portion of the project. Additionally, Steven will look more into configuring the blockchain system.
- Dakota Moore will work on finishing the design document and will research more into the security side of the project and what technologies and applications will be needed.

- **Summary of Weekly Advisor Meeting**

- Meet with the client to review progress on the design document and discuss correctness of our implied requirements and understanding.