

Tasks

- 1) Investigate and identify real-world customer problems. Document what the needs of our customers are - All
- 2) Obtain access to Cyber@UC server in ERC - Noah
- 3) Research appropriate Frontend framework - Nick
- 4) Setup frontend project - Nick
- 5) Develop user interface prototype - Nick
- 6) Test user interface with customers - Nick
- 7) Refine user interface utilizing customer feedback - Nick
- 8) Finalize back-end services design, API design, and data design - Sam, Noah, Korey
- 9) Identify deployment strategy for back-end and front-end apps - Nick, Noah
- 10) Set up continuous delivery / continuous deployment for back-end and front-end - Nick, Noah
- 11) Research the deployment of an OpenStack operation as a foundation for our Infrastructure - Sam, Korey
- 12) Build core backing services (Message Broker, Databases, Datastores, etc.) for custom services to interact with - All
- 13) Test back-end app deployment strategy to Cyber@UC's servers in ERC - Noah
- 14) Test front-end app deployment strategy - Nick
- 15) Build API Gateway for interacting with the back-end - Sam
- 16) Choose authentication strategy and service (possibly OpenStack Keystone) - Sam
- 17) Research CLI Docker commands to launch containers that will emulate virtual machines - Korey
- 18) Research how to set up Docker containers to communicate in networks - Korey
- 19) Design and build container orchestration service for virtual machine and networking simulation - Korey
- 20) Build core application services - Korey, Noah, Sam
 - a) Network service
 - b) Traffic service
 - c) Software service
- 21) Investigate the possibility of using the Elastic Stack and Kibana to visualize network traffic - Korey, Sam