Bi-Weekly Progress Report

Project Short Name: Genesis: Configuration Management

Your Name: Douglas Swanson

Number of hours worked week 1: 12 hours week 2: 12 hours

Report Due Date: 11/13/22

1. Tasks and Targets set for the report period
   1. Complete the React UI
   2. Complete the Spacecraft Service
   3. Complete the Service Broker
2. Adjustment and revisions made against the original tasks and targets. Explain the reasons if adjustments were made.
   1. Completing the React UI will be pushed one week, Progress was made just haven’t been able to finish.
   2. Completing the Spacecraft Service will be pushed one week, Progress was made just needs some additional testing and integration.
3. Summary of Accomplishments and the contribution to the project.
   1. Completed the Service Broker implementation in Redis
   2. Started building out the front end user interface.
      1. Built out the front end node server which will serve the React application to the users who request it
      2. This front end server will also connect to the service broker and keep track of where the services are so that the React application may converse with them.
      3. Built the landing pages using the React Library
   3. Worked on the spacecraft service.
4. Elaboration of the work done.
   1. Completed the Service Broker implementation in Redis
      1. Services can register themselves and their addresses
      2. Node server can find these registrations and register for changes to those registrations.
   2. Started building out the front end user interface.
      1. Built out the front end node server which will serve the React application to the users who request it
      2. This front end server will also connect to the service broker and keep track of where the services are so that the React application may converse with them.
      3. Built the landing pages using the React Library
      4. Worked, on paper, on the process flow through the application as well as what each component will look like.
      5. Built out the boilerplate code for the React Redux application state store.
   3. Worked on the spacecraft service
      1. Built out the service to accept requests, log messages, and register itself with the service broker just like the scenario service.
      2. Built out the MySql database logic to allow it to select any scenario and to complete the requests made.
      3. Started to build out the connection between the service and the template file store.
5. Conclusion Remarks
   1. This was another productive week, as far as coding up the project goes. It looks like all of the pieces will come together as expected. The redis service broker was completed and the other two pieces are coming together nicely. Should have all of the project done by the deadline if I can keep this pace up.
6. References used
   1. <https://spaceipsum.com/pale-blue-dot/> (Used to fill UI with dunny text)
   2. <https://beta.reactjs.org/> (Used as a reference to building out the React Application)
   3. <https://react-bootstrap.github.io/> (Used to add some prebuilt components to the UI)