JupyterBin

29 January 2019

Brief

We are proposing to build a web resource for storing Jupyter Notebooks. We will deliver this project in a number of phases as described below:

Basic web portal

- Fully design and implement the database.
- User account control w/privileges.
- Secure storage of a limited amount of personal information.
- Fully developed user interface.
- This is the minimum requirement of the project to be completed by the end of the semester.

Jupyter Notebook container environment

- Automated containers to run Jupyter Notebook over the web.
- The timeline for this requirement will be developed in the first phase of work.

AGENDA

Research technologies

- Attempt to mock a single instance of Jupyter Notebook running in a web environment.

- Decide which software stack we would like to use for web portal (e.g. React, Node.js, Express) including which libraries (e.g. Oauth for user authentication).

Two week meeting cycles

- We will have a more detailed and accurate timeline complete once we accomplish our first research objectives as listed above. Our goal is to finish these first steps within two weeks.

- This document will be a "living document" and will change throughout the project. It will be reviewed each meeting and changes will be discussed and agreed upon at that time.
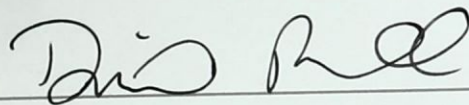
Licensing

- Need to research and decide under which type of license we would like to release our code. GPL may be a good fit for this project.

Other terms/notes

- The overall size of this project and the experience of our team should be taken into account as expectations are discussed and set.
- Our expected compensation is the experience of the project, including the ability to show potential employers what it is we are working on.
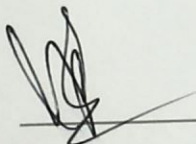
Signed,

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