CPRE 492 WEEKLY REPORT 20

Project Molecule

22 - 28 February 2017

May1739

may1739@iastate.edu

Dr. Arun Somani

Ryan Wade – Team Leader

Nathan Volkert - Communications Lead

Daniel Griffen – Key Concept Holder

Alex Berns - Webmaster & Scribe

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2 WEEKLY SUMMARY

Each member did work to finish up their parts to get ready for integration. We discussed the path to integration again due to a change in plans. We determined we are behind our initial schedule, but have a path forward.

3 Past week accomplishments

All Members:

• Integration plans

Ryan Wade:

TODO

Nathan Volkert:

- Worked further on permissions and testing
- Started integration with molecule common library

Daniel Griffen:

- Created IPC backend
- Integrating network library with atom library
- Documentation
- Helped with design of atom

Alex Berns:

• Form builder Work

4 INDIVIDUAL CONTRIBUTIONS

NAME	Hours	Semester Total	Cumulative
Ryan Wade	19	100	220
Nathan Volkert	15	87	189
Daniel Griffen	22	94	228
Alex Berns	14	95	194

5 COMMENTS AND EXTENDED DISCUSSION

5.1 **NETWORKING**

Documentation for molecule common is located at:

https://may1739-molecule.gitlab.io/molecule-common/dev/doc/molecule_common/

5.2 Particle Packaging

TODO

5.3 UI COMMUNICATION

TODO

6 PLAN FOR COMING WEEK

Nat: More testing. Adding to Common Lib. Documenting.

Once handlers are done, can integrate. Think about how to demo in a few weeks. Needs steps to create success and failure. Think of final system scenario.

Alex: Next week will be migrating to rust. If more time, export.

Transition to integration of Rust UI Server to do the: request + socket -> response

Ryan: Tie rust UI server into system.

Dan: Will pick up some work from Ryan.

Ryan + Dan: Handlers will be done next week. Then connect permissions

7 SUMMARY OF WEEKLY ADVISOR MEETING

7.1 This Weeks Accomplishments

Nat: Worked on bugs with the permissions layer. App Installs working and other nodes can call its apps.

Alex: UI Builder is behind. Exporter is not started yet. Still working on the updating of components

Ryan: Rust now runs the UI Server. Communication manager (atom) work continued, messages move but not finished. State store is tested and working.

Dan: Streams finished. Multiple Communication now works. Documentation.

7.2 Notes

Since we can register features on the fly. We need to figure out how to store function pointers on the fly for apps.

7.3 How far behind?

Handlers for permission are not build yet. Anticipate Next Week

Rust UI builder is not done. Anticipate Next Week

System Startup will take longer than a week. Starting of that will be done next week

One particle communicates to other particles

Alex: Look at Molecule Common for an example of the server. Its not final.

7.4 OLD GOALS

End of Feb: basic demo of system

Mid to late march: UI Working

End of March (21?): "final demo"

Apps and systems, with synchronized UI and stuff

April: Fix Bugs

Integration Parts

- 1. UI Builder Rust: Not Working
- 2. Atomic Layer communication with other atomic layer
- 3. Atomic Layer to run permissions
- 4. UI Particle in system: Working

7.5 Next Week Promises

Nate: More testing. Adding to Common Lib. Documenting.

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