Weekly Milestone Meeting Agenda
Week I

Date/Time: June 2, 10:00-11:00 A.M. Durham
Location: https://duke.zoom.us/j/91369404327
Next meeting: June 9, 10:00-11:00 A.M. Durham
Participants: Directory
Agenda prepared by: Luyao Zhang (Host)
Minutes by: Derrick Adam (Moderator)
Meeting Goal:
1. Communicate the Project Expectations
2. Discuss Division of Labor and Weekly Milestones
3. Team building and Q&A

Meeting Timeline:

Time	Discussion Topic	Presenter/Facilitator
10:00-10:10	general project briefing and team introduction	Luyao Zhang
10:10-10:30	communicate project expectations to reach consensus	Yulin Liu, Kartik Nayak and Fan Zhang
10:30-10:40	graduate mentoring and weekly recitation introductions	Derrick Adam
10:40-11:00	researcher Q&A	Dylan Paul, Urjit Banerjee, Oum Lahade, Malika Rawal

Action Items
1. Derrick organizes weekly recitation meetings.
2. Project leads acquire resources and organize follow-up comments.
3. Derrick interviews each project lead (Luyao, Kartik, Fan, and Yulin) and collects weekly comments. Derrick compiles the comments with polished meeting minutes and sends them to all.
4. UG research team submit weekly milestones and questions by Monday 11:00 P.M. Durham to Derrick before the next milestone meeting
5. Derrick collects the UG research team submissions and emails a weekly milestone report to project leads by Tuesday 11:00 P.M. Durham before the next milestone meeting.

Appendix: Weekly Milestone Resources

1. Project Briefings: Milestones, Final Deliverables, and Other Contributions

1) **Innovate** Deploy DeFi Apps (Canister) on the Internet Computer with the key features of specified Defi Apps (Smart Contract) that exist on the Ethereum Blockchain.
   - ☐ Final deliverables: video recordings and slides of prototype demonstrations
   - ☐ Milestone deliverables: video recordings and slides of step-by-step developing instructions

2) **Research**: Conduct research to compare the performance of the DeFi Apps newly developed on the Internet Computer and its analogy on the Ethereum Blockchain
   - ☐ Final deliverables: research reports and research proposals seeking support for a continuing project
   - ☐ Milestone deliverables: presentations and reports that cover the following five facets:
     - ■ research background (literature review)
     - ■ research questions (essays on why important and why not studied before)
     - ■ research methods (documents of modeling, simulating, experimenting, or analyzing methods)
     - ■ results (reports on pivot results)
     - ■ intellectual merits and practical impacts (arguments on contribution to the literature of economics and computer science and to real-world practices.)

3) Other contributions:
   - ☐ AMA with DFINITY engineers
   - ☐ Open Education Resource Publications: innovate/research on the Internet Computer
   - ☐ Presentation at SciEcon Seminars/Symposiums
   - ☐ Potential re-appointment on continuing projects and co-authorship on publications

Note: the research must be asking fundamental questions of relevancy to both Economist and Computer Scientist at the frontiers

2. Divisions of Labor

Project A

Specified DeFi Apps: Liquity
Economic Documents: https://docs.liquity.org/faq/general
Technical Resources: https://docs.liquity.org/documentation/resources
Staffing:
Senior Researcher: Urjit Banerjee
Junior Researcher: Oum Lahade
Research Support: William Zhao and Elliot Ha

Project B

Specified DeFi Apps: Compound and Ave
Compound: https://compound.finance/
Aave: https://aave.com/

Staffing:
Senior Researcher: Dylan Paul
Junior Researcher: Malika Rawal
Research Support: Tianyu Wu and Saad Lahrichi

Questions to Yulin: Key features that you recommend starting with for both projects?
Notes:
For Project A: No dividend tokens, i.e. LQTY, for the first version; Replace Ether by ICP and replace LUSD by SDR
    o   Users could pledge ICP tokens as collateral and borrow SDR tokens
    o   SDR tokens are pegged to Cycles (stability mechanism needs to be worked out)
    o   Users could withdraw their ICP tokens by paying back their debts

> o   No dividend tokens, i.e. LQTY, for the first version

For Project B: start with a single asset Cycle and a single collateral ICP
>   o   Lenders could deposit Cycle tokens and earn interest
>   o   Borrowers could pledge ICP tokens as collateral and borrow Cycle tokens
>   o   If the collateral ratio (=value of ICP/value of the debt) falls below 110%, the ICP collateral is automatically converted to Cycles to pay back their loans

- Both teams start with replication and could innovate later by adding more features to their products
- The two projects could interact at some point, e.g. users could deposit in DB2 the SDR tokens borrowed from DB1

3. Weekly Milestones

Week 1

Innovate:

☐   An Absolute Beginner's Guide for Innovate on Internet Computer:
Step-by-step instruction/demonstration slides submitted in Sakai and videos recorded and uploaded to duke Wapwire library. (Specify the operating system and version for your instructions: Mac/Windows/Linux)
- ✧ Set up the development environment
- ✧ Prepare the building blocks: ICP tokens and cycles
- ✧ Leverage the toolbox: DFINITY Canister SDK
- ✧ Deploy the first application
- ✧ Share how the developer experience connects to or differs from that on a different platform such as Ethereum Blockchain, Webservers, etc.
- ✧ Share where you get stuck, how you remove obstacles and tricks for fast progress.
References: https://sdk.dfinity.org/docs/quickstart/quickstart-intro.html
Hint: Install Linux subsystem and Ubuntu for windows tutorial

Research:

☐ Literature Review for Economist, Computer Scientist, and Practitioners submitted in Sakai:
- ✧ Literature review for DeFi in general and your specified application in particular.
- ✧ Reference includes white papers, industry reports, websites, medium articles, conference papers, data, GitHub, third-party evaluations, etc.
- ✧ Literature review for your specified application should answer the following questions:
  - ☐ **Motivation**: What problem does the specified DeFi App intend to solve?

- ☐ **Methods and Results**: How does it solve the problem? What are the key mechanisms? Is the problem solved?
- ☐ **Business Models**: How does it work to create business/social value for stakeholders?
- ✧ Please include both in-text citation and bibliographies in [Chicago author-date](#) style. (Hint: https://www.mybib.com/)

Week 2: TBD

Innovate:

☐ The pipeline and weekly milestone plan to deploy the specified application on the Internet Computer in four weeks submitted in Sakai.
- ✧ The pipeline should be able to complete the deployment with the user experience of key features.
- ✧ The weekly plan should include
  - ◆ Plan to acquire necessary resources
  - ◆ Expert to consult for advice
  - ◆ Expected obstacles and solutions

Research:

☐ Essay on Research Question:
- ✧ Identify a relevant research question that is interesting to both Computer scientists, economists, and practitioners.
- ✧ Elaborate on the importance and originality of the research question.
- ✧ Please include both in-text citation and bibliographies in [Chicago author-date](#) style. (Hint: https://www.mybib.com/)

References:

Four Internet Computer Start-up Tutorial Videos:
https://drive.google.com/drive/folders/1PDaBXAJuLq0VgYp0KvCCEndpJjtxrSIm?usp=sharing
Internet Computer Association Course Release:https://internetcomputer.org/education
Focus: https://github.com/DFINITY-Education/blockchain-and-cryptocurrency
More videos on the DFINITY YouTube channel:
https://www.youtube.com/c/DFINITY/videos
Join the Internet Computer Forum: https://forum.dfinity.org/categories
GitHub:
https://github.com/dfinity/ic
https://github.com/dfnfan/awesome-DFINITY
https://github.com/dfinity/awesome-dfinity
Canisters Developed on the Internet Computer:

Decentralized Tiktok: https://github.com/dfinity/cancan
Decentralized LinkedIn: https://github.com/dfinity/linkedup
Decentralized Whatsapp: https://www.youtube.com/watch?v=PjMIY2w480I
Decentralized Reddit

Blockchain Data:

CoinmarketCap	https://coinmarketcap.com/tokens/
Coinmetrics	https://coinmetrics.io/
Coingecko	https://www.coingecko.com/en
Etherscan	https://cn.etherscan.com/
Bitfinex	https://www.bitfinex.com/
Messari	https://messari.io/
Glassnode	https://glassnode.com/