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Coxygen Global Haskell Plutus Facilitator

Report for 1 – 30 June 2025

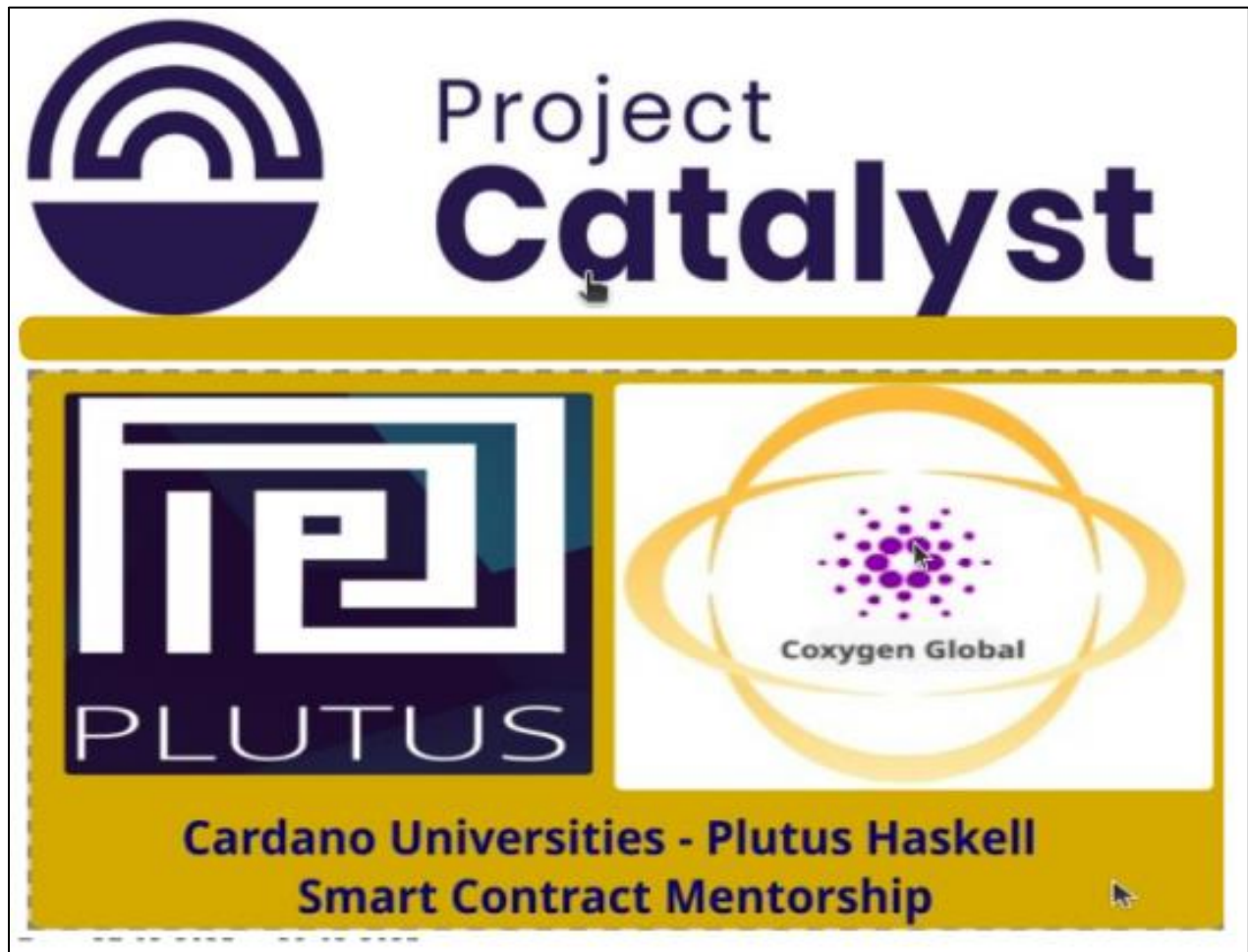


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Overview

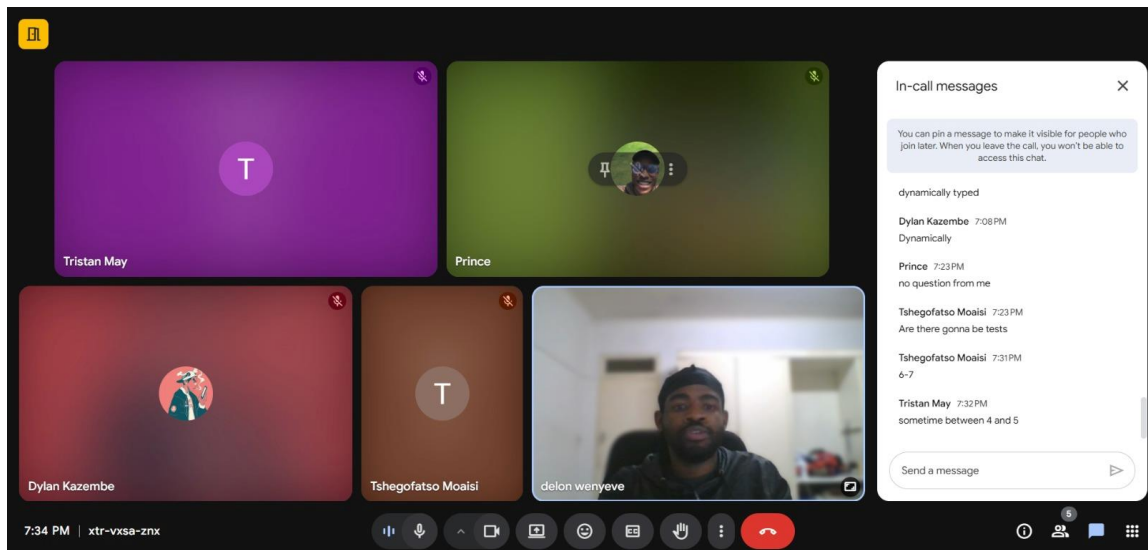
In June 2025 the Haskell Plutus program experienced a good change in pace. The members in my group G011 started off well, majority of them were joining the meetings and participating during the online meetings. This indicates that they are interested in the program. Although we started off well the first half of the month, the majority of the students (All from Richfield College) did not attend the rest of the month. This is due to the June Examinations they had. Some had communicated that they won't have time to attend our daily meetings online during that period.

The coding aspect which accounts to the 75%. My focus was still Loss Reduction System Android Mobile Application. I have successfully implemented several features, covering both backend and frontend functionalities, aligning closely with the stated requirements.

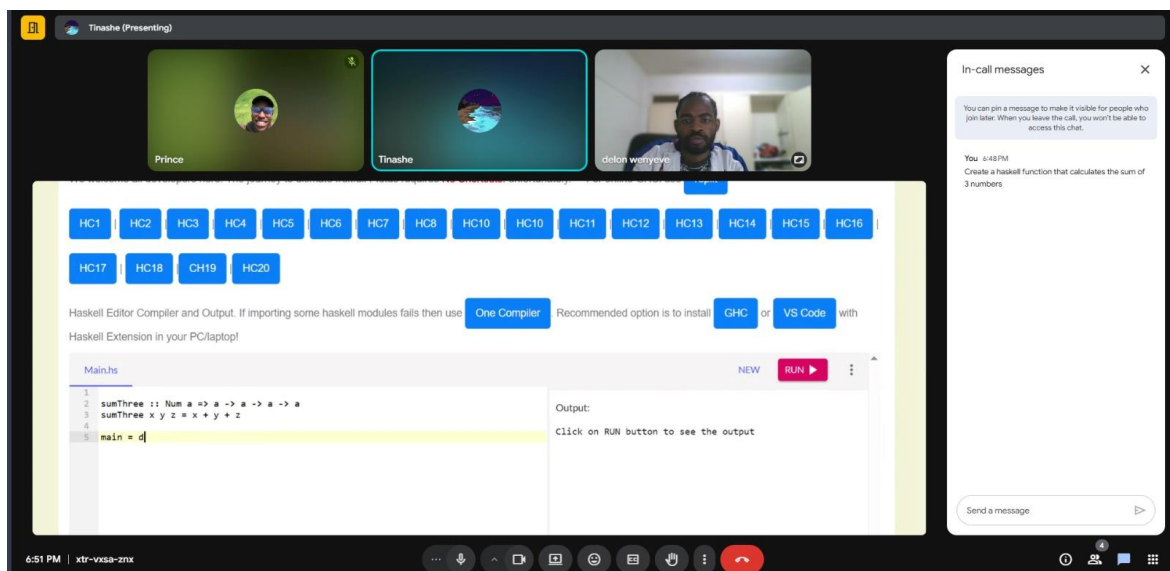
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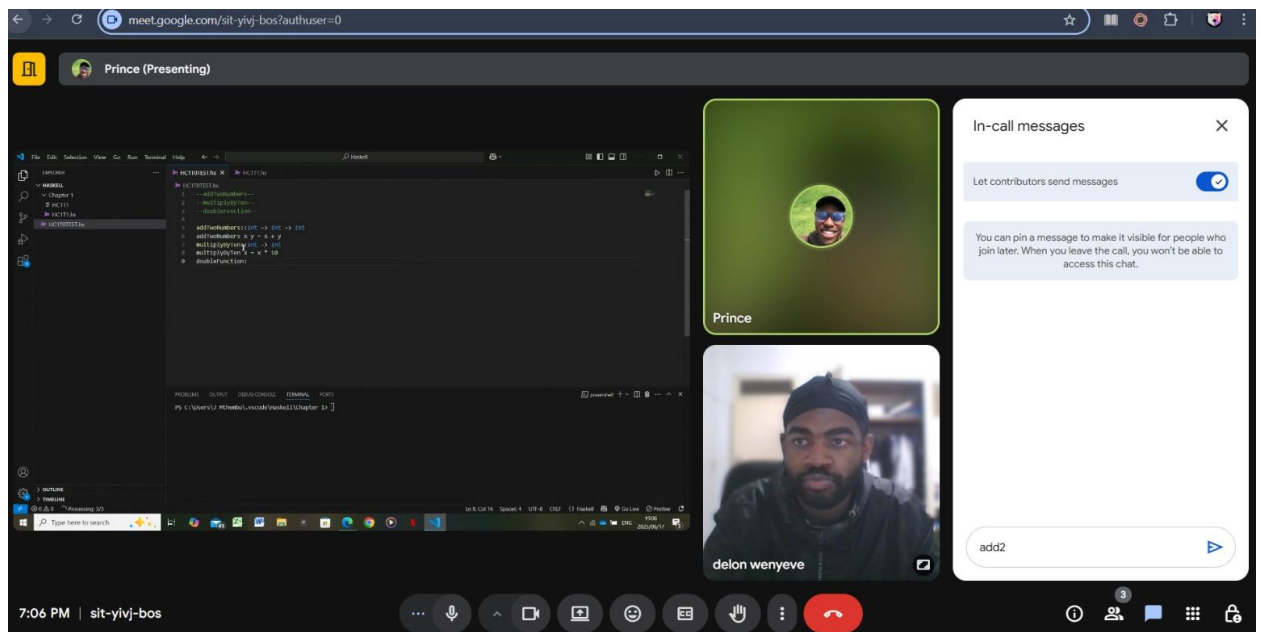
Date: 10 June 2025 at 18.07.25



Date 11 June 2025 at 18.52.43



Date 17 June 2025 at 19.06.40



The students showed interest in the program due to attendance. We did face difficulties during registration, The students were not yet experienced using crypto wallets such as Lace, a couple of the students did successfully manage to register and verify their accounts, 2 members managed to install the Haskell dependances such as GHCup, cabal and stack and they can now code Haskell on their local machines.

Coding Aspect

In the month of June, I have been working on the Loss reduction system. The mobile app now has the PHP backend and using the MySQL relational database.

1. Key achievements

During June, I focused on continuing building out the core architecture, features and a redesign of the UI to be User friendly for Users. The app now can display the assets for a specific project that users have uploaded from the database,

Key achievements include:

- Continuous update of the PHP-based backend REST API
- Designing and provisioning the MySQL database schema
- Integrating the Android mobile client with the new backend
- Redesigning the Android application UI using Material UI

2. Completed Work

Backend & Database

Database Schema

Created a new table `asset_status` that stores information regarding the status of an asset such as Active, Damaged, Disposed and the associated color hex #4CAF50, #F44336, #607D8B..etc.

API Endpoints

get_clients.php – returns active clients

get_projects.php?client_id=... – returns projects per client

get_assets = returns the assets of a specific project for a client

Mobile App Screens/Activities (Java)

TabsActivity

Bottom-tab navigation between Asset Management and Expense Management fragments

Animated indicator, theming, and fragment argument bundles

AssetFragment

UI scaffolding: search bar, category/status/quantity filters (Material exposed dropdowns), RecyclerView list

Floating-Action-Button to launch AddAssetActivity

AddAssetActivity

Form for asset name, quantity, value, category selection, image picker →
POST to add_asset.php

GitHub

New Repository link

Loss reduction Android App: <https://github.com/delon500/Loss-Reduction-Android>

Loss reduction Backend: <https://github.com/delon500/Loss-Reduction-Backend>

Challenges

Low Student Engagement: On the second half of the month, it was difficult to maintain momentum in the live online sessions due to low attendance.

Coding Project: Certain key features are still not implemented such as Report generation, expense upload, analytics and metrics generation and the expense management features.

July plan

Group G011, I am planning to carry on conducting lessons at least 3/4 times a week lessons per week after have completed they're exams.

The Loss reduction system I am aiming to code the 75% of the features required such as the adding and deleting assets from the app, the Expense management workflow, budget and reporting.