



## Report November 2025

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**Role:** Facilitator and Developer

**Group:** G016 and G008 Haskell Plutus Groups

**Number of students:** 71

**Date:** 30 November 2025

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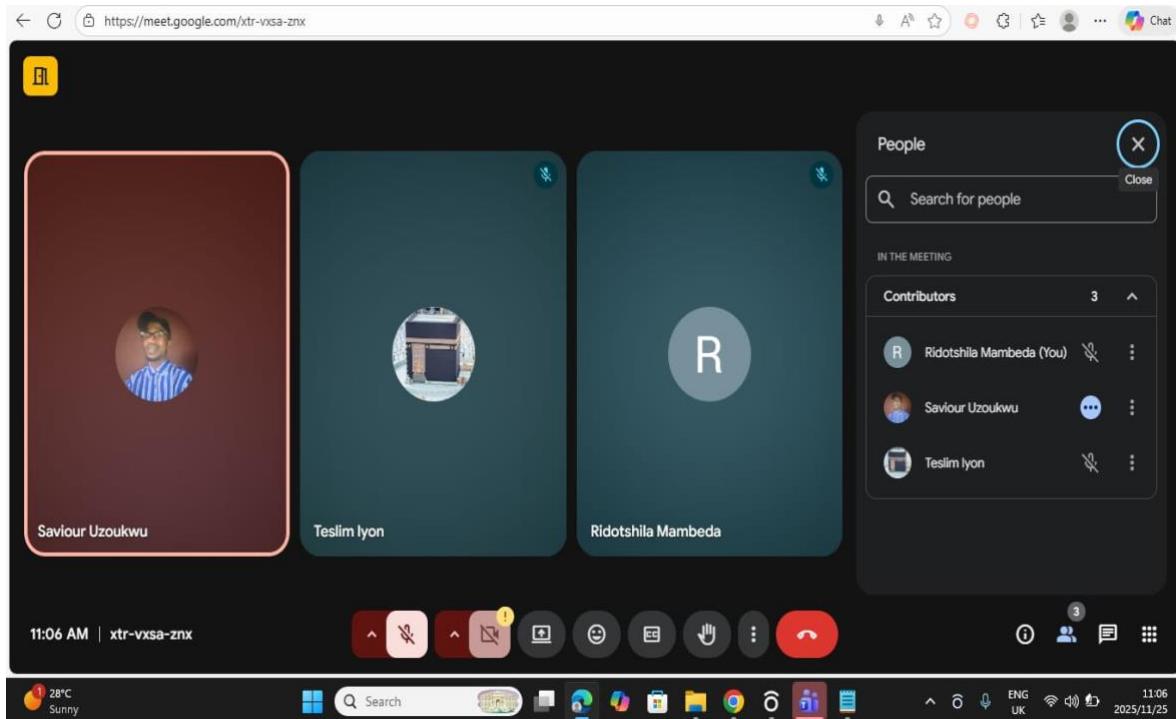
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## Introduction

This report summarizes the learning activities, progress, and achievements of the G016 and G008 students for November 2025 under my facilitation. The focus this month was on reinforcing Haskell programming skills, particularly around intermediate and advanced topics such as Handling Errors in Haskell, understanding cabal from their study materials. Students also engaged in hands-on software development exercises, including the creation of verification apps and practical problem-solving tasks, fostering their ability to apply functional programming concepts in real-world scenarios. Collaborative practices such as GitHub forking, pull requests, and code review were further emphasized to strengthen students' workflow and teamwork skills. Overall, November was geared towards consolidating foundational knowledge while gradually introducing more complex programming challenges.

# 1 General Meetings

1.1. 11/6/25, General meeting with Mr Bernard S and facilitators



**Time:** 17:00-18:00

**Attendance:** 8

**Expected Attendance:** 12

**Summary:** We started working on some smart contracts that was given to us to create

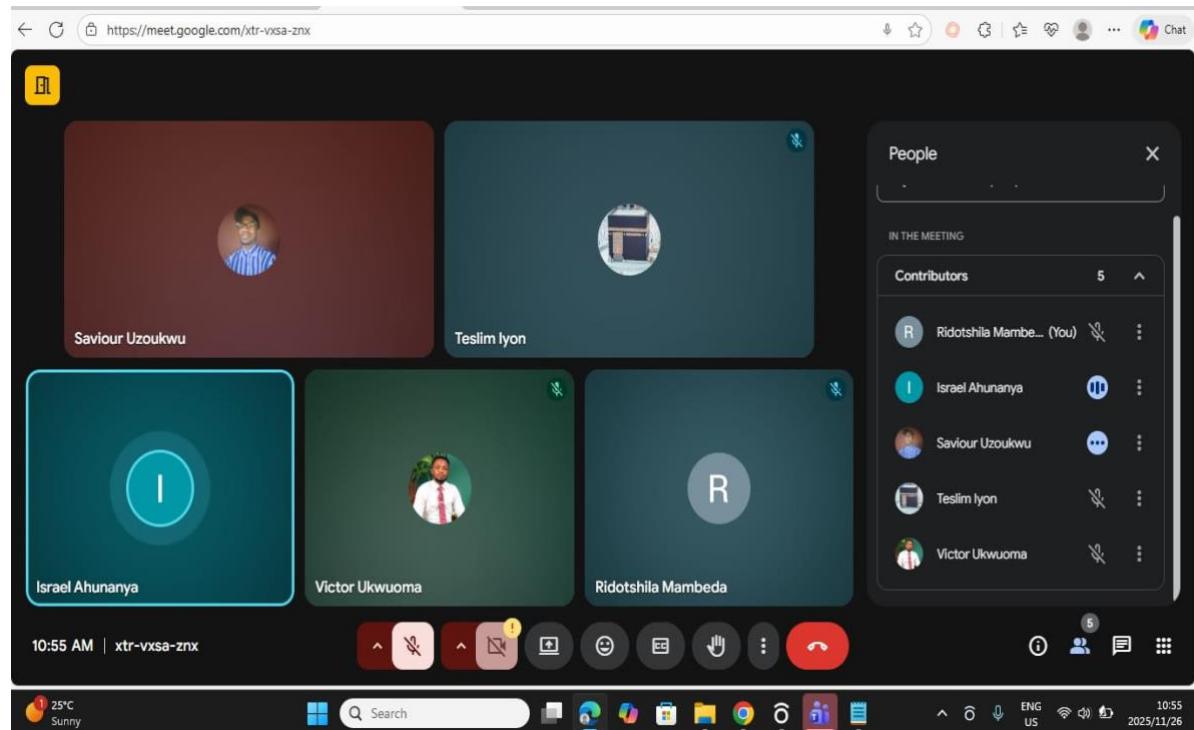
**Achievement of the day:** The students where able to create the needed smart contracts

4/30

By Mr B Sibanda

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### 1.2.11/7/25, General meeting with Mr Bernard S and facilitators



**Time:** 17:00-18:00

**Attendance:** 8

**Expected Attendance:** 12

**Summary:** We started working on some smart contracts that was given to us to create

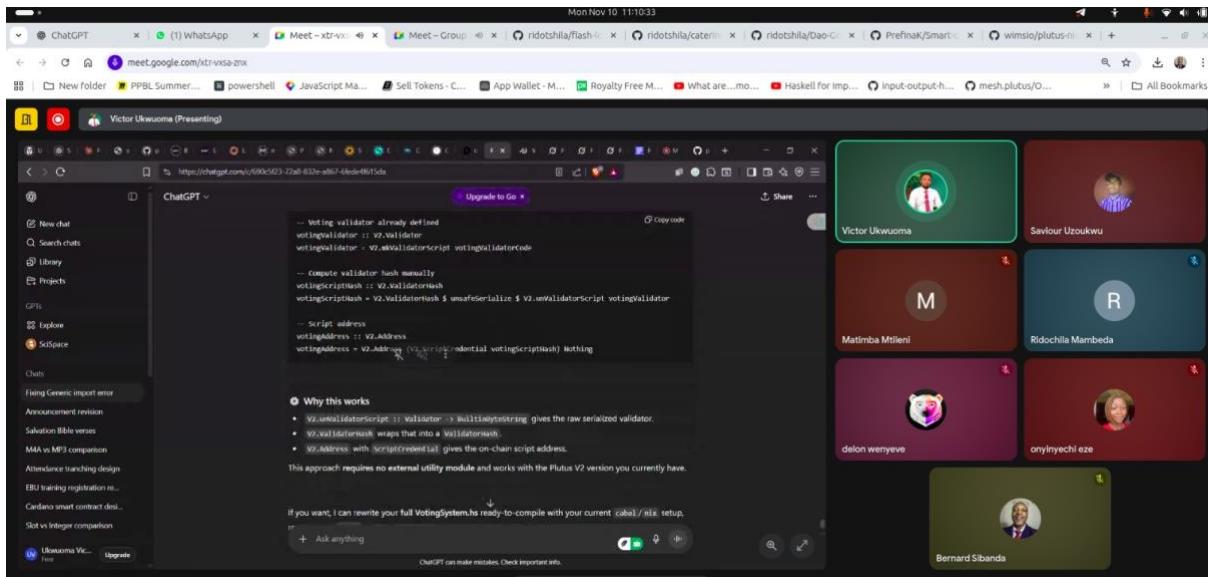
**Achievement of the day:** The students where able to create the needed smart contracts

5/30

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### 1.3.11/10/25, General meeting with Mr Bernard and facilitators



**Time:** 17:00-18:00

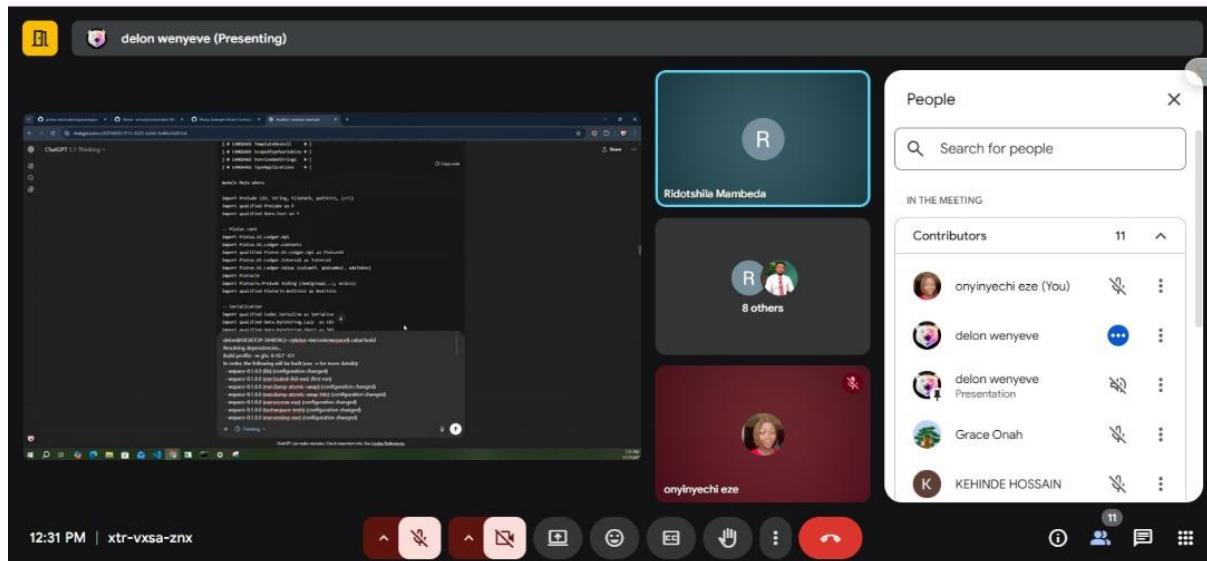
**Attendance:** 8

**Expected Attendance:** 12

**Summary:** We started working on some smart contracts that was given to us to create

**Achievement of the day:** The students where able to create the needed smart contracts

## 1.4. 11/17/25, General meeting with Mr Bernard and facilitators



**Time:** 17:00-18:00

**Attendance:** 8

**Expected Attendance:** 12

**Summary:** We started working on some smart contracts that was given to us to create

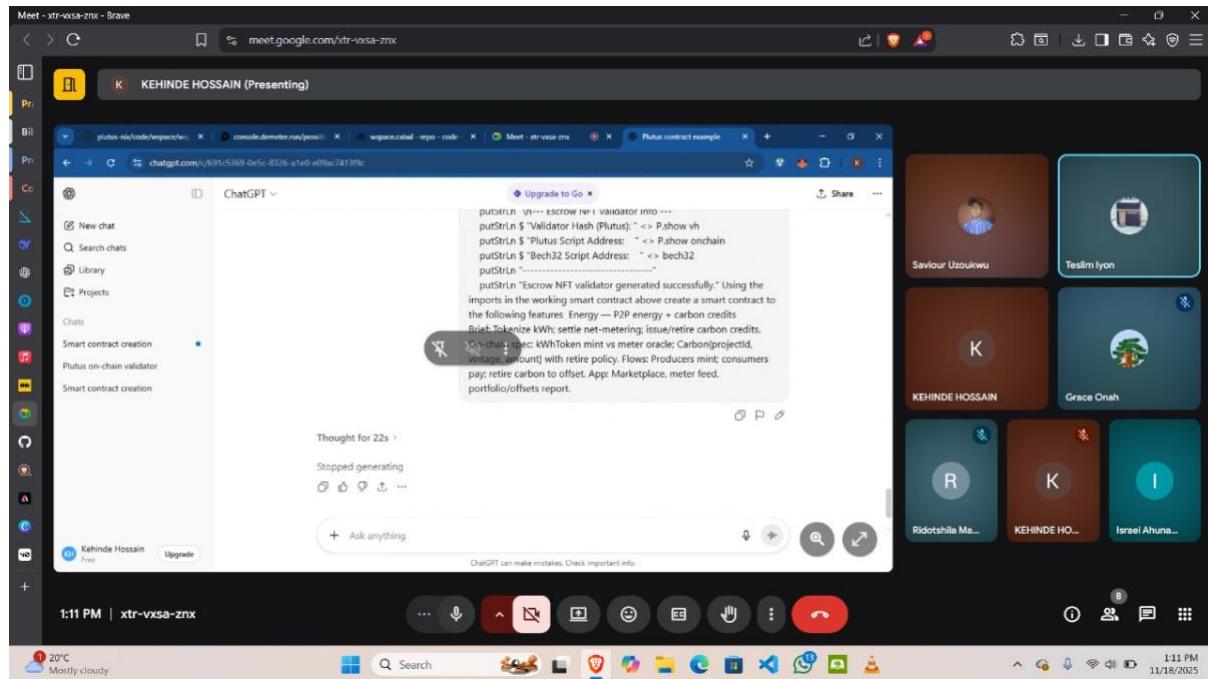
**Achievement of the day:** The students where able to create the needed smart contracts

7/30

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## 1.5. 11/18/25, General meeting with Mr Bernard and Student developers



**Time:** 17:00-18:00

**Attendance:** 8

**Expected Attendance:** 12

**Summary:** We started working on some smart contracts that was given to us to create

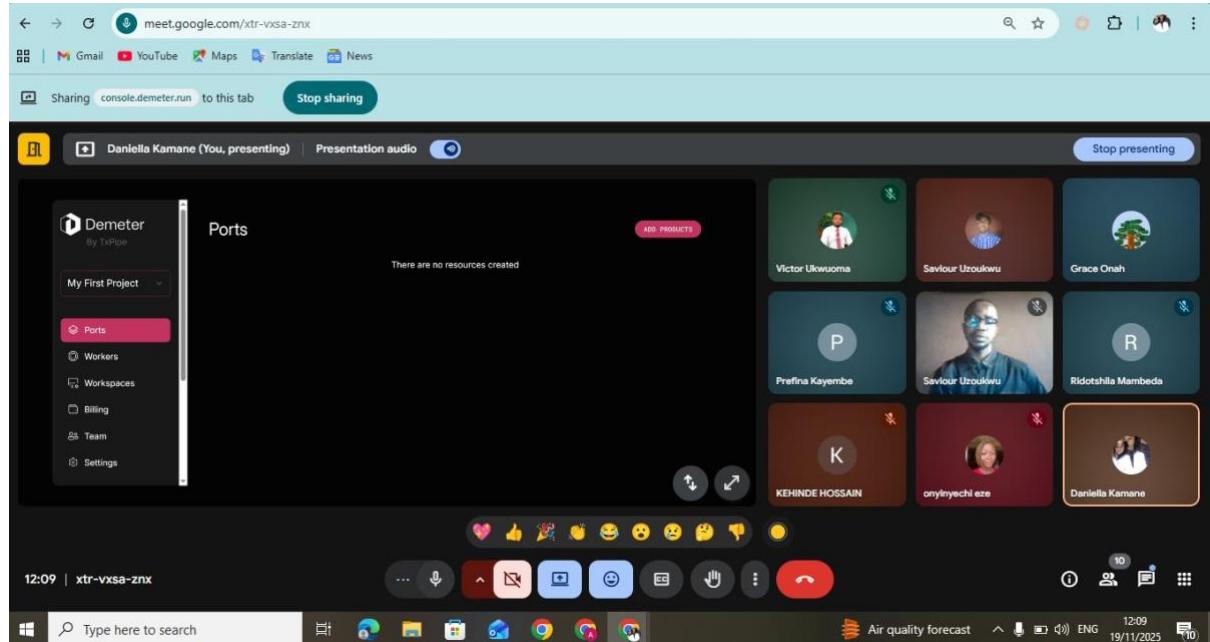
**Achievement of the day:** The students where able to create the needed smart contracts

8/30

By Mr B Sibanda

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## 1.6. 11/19/25, General Meeting with Mr Bernard S and Facilitators



**Time:** 17:00-18:00

**Attendance:** 8

**Expected Attendance:** 12

**Summary:** We started working on some smart contracts that was given to us to create

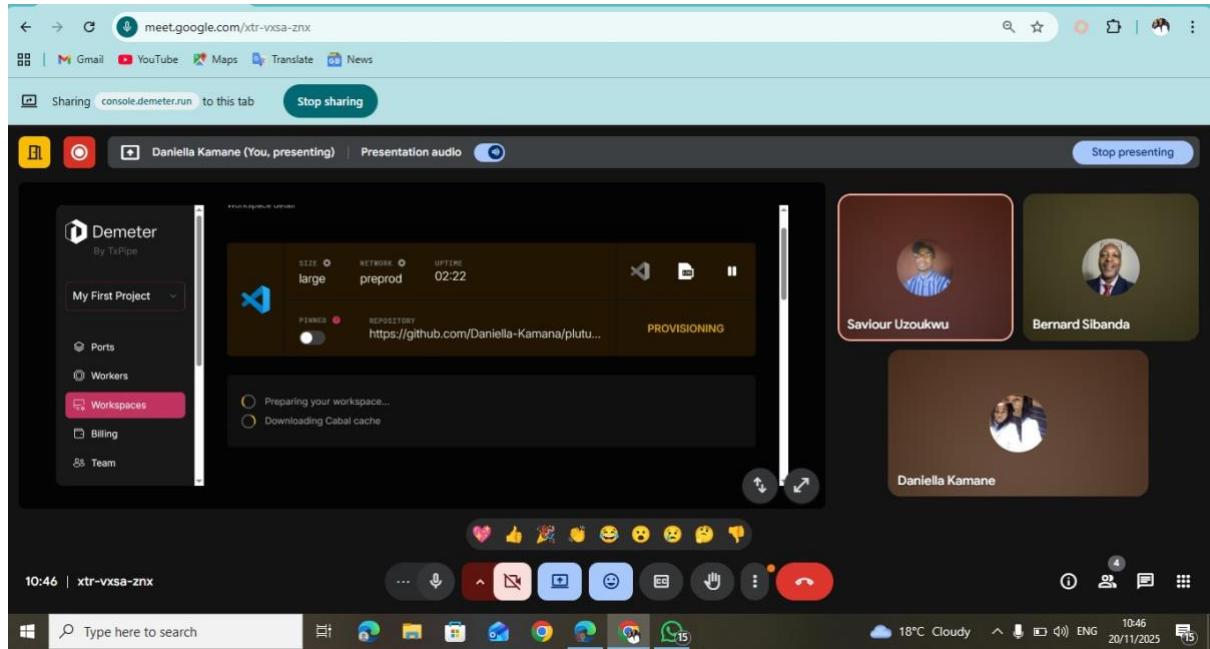
**Achievement of the day:** The students where able to create the needed smart contracts

9/30

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## 1.7.11/20/25, General Meeting with Mr Bernard S and Facilitators



**Time:** 17:00-18:00

**Attendance:** 8

**Expected Attendance:** 12

**Summary:** We started working on some smart contracts that was given to us to create

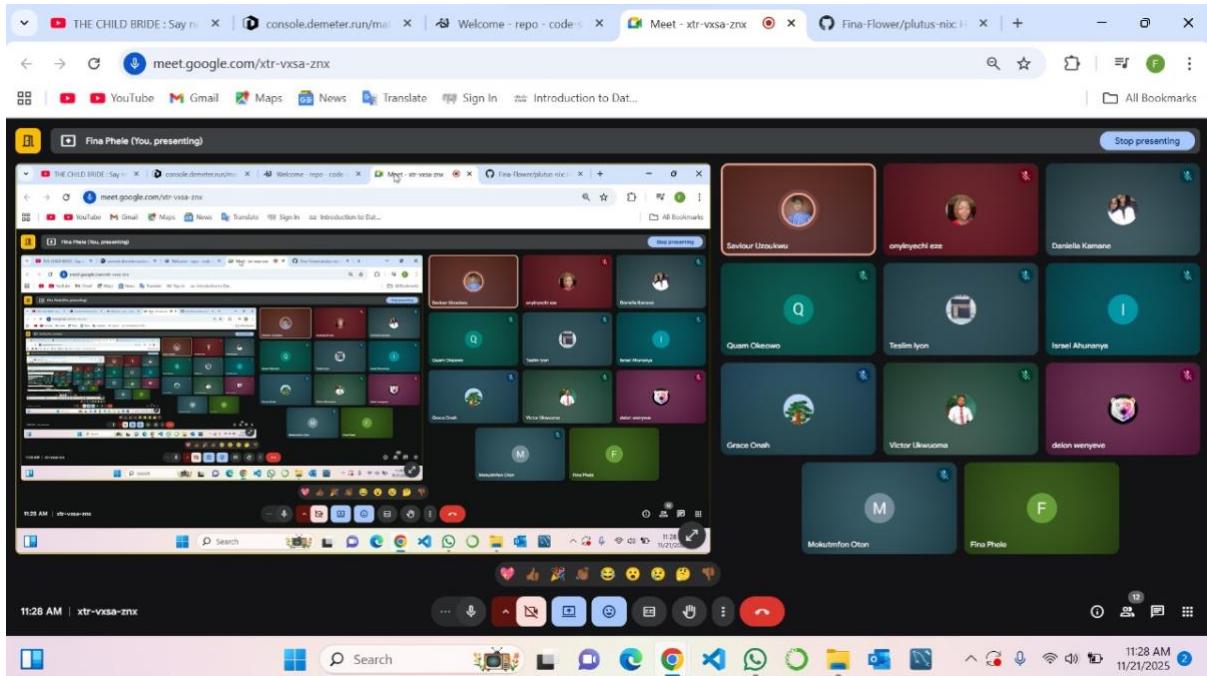
**Achievement of the day:** The students where able to create the needed smart contracts

10/30

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## 1.8. 11/21/25, General meeting with Mr Bernard and student developers



**Time:** 17:00-18:00

**Attendance:** 8

**Expected Attendance:** 12

**Summary:** We started working on some smart contracts that was given to us to create

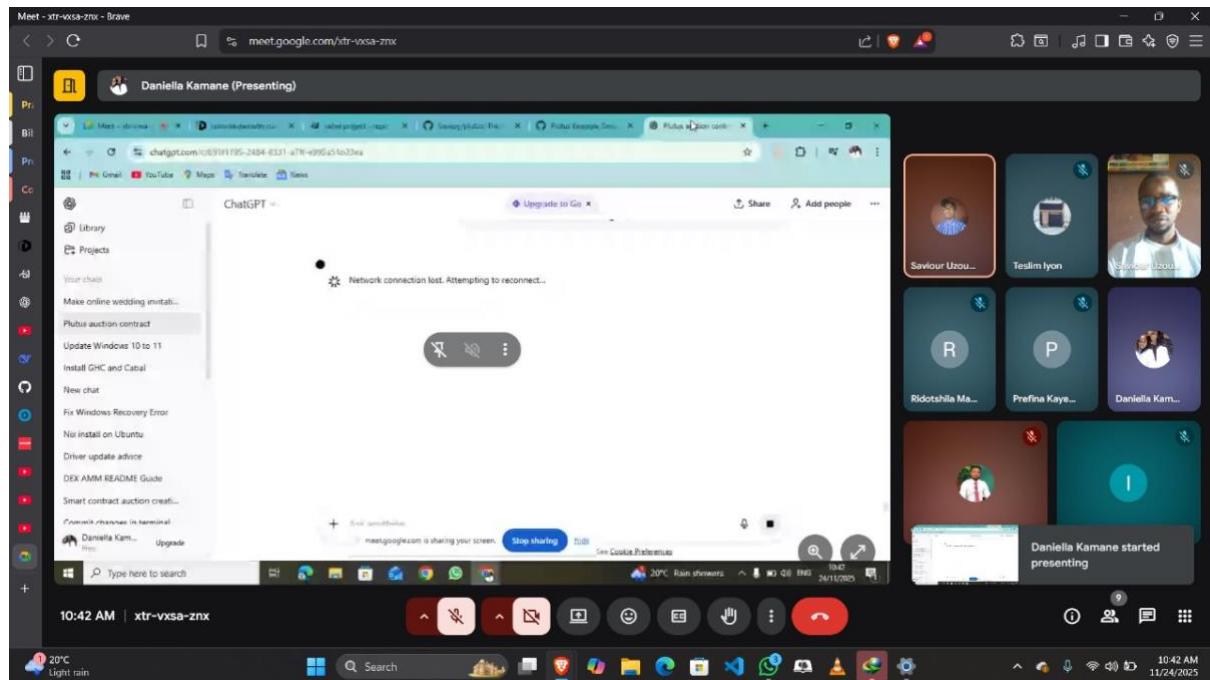
**Achievement of the day:** The students where able to create the needed smart contracts

11/30

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## 1.9. 11/24/25, General meeting with Mr Bernard and facilitators



**Time:** 17:00-18:00

**Attendance:** 8

**Expected Attendance:** 12

**Summary:** We started working on some smart contracts that was given to us to create

**Achievement of the day:** The students where able to create the needed smart contracts

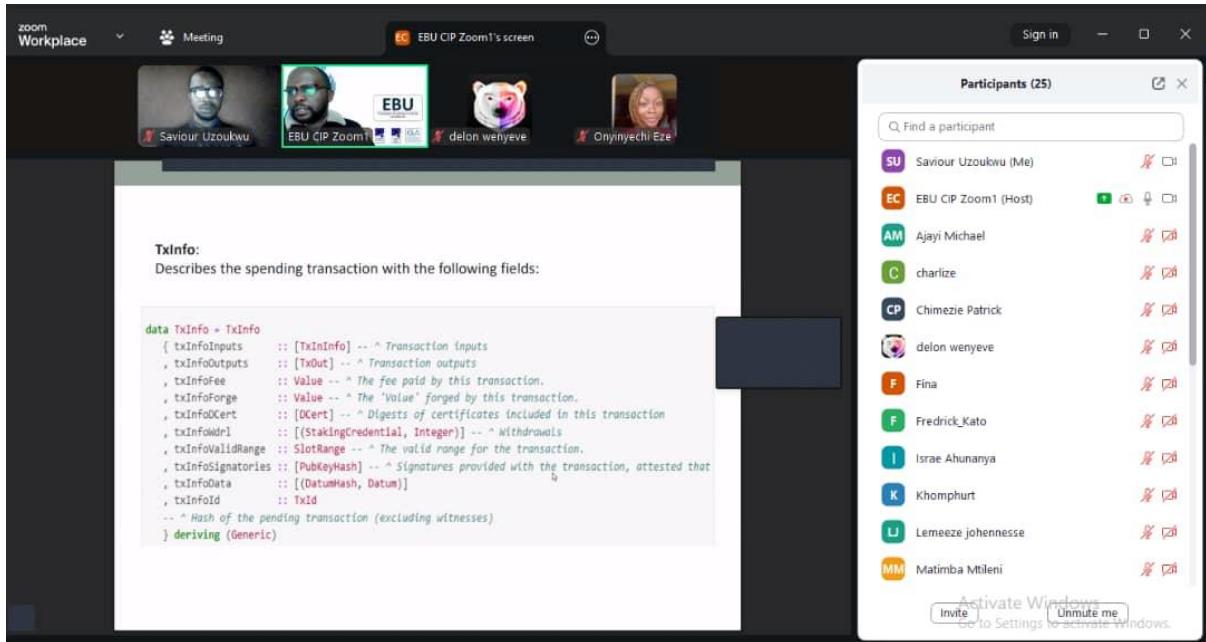
12/30

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## 2 Facilitation Meetings (Group: G008)

### 2.1. 11/6/25, First weekly meeting held at the EBU



**Time:** 17:00-18:00

**Attendance:** 10

**Expected Attendance:** 13

**Summary:** We had our EBU session for the week

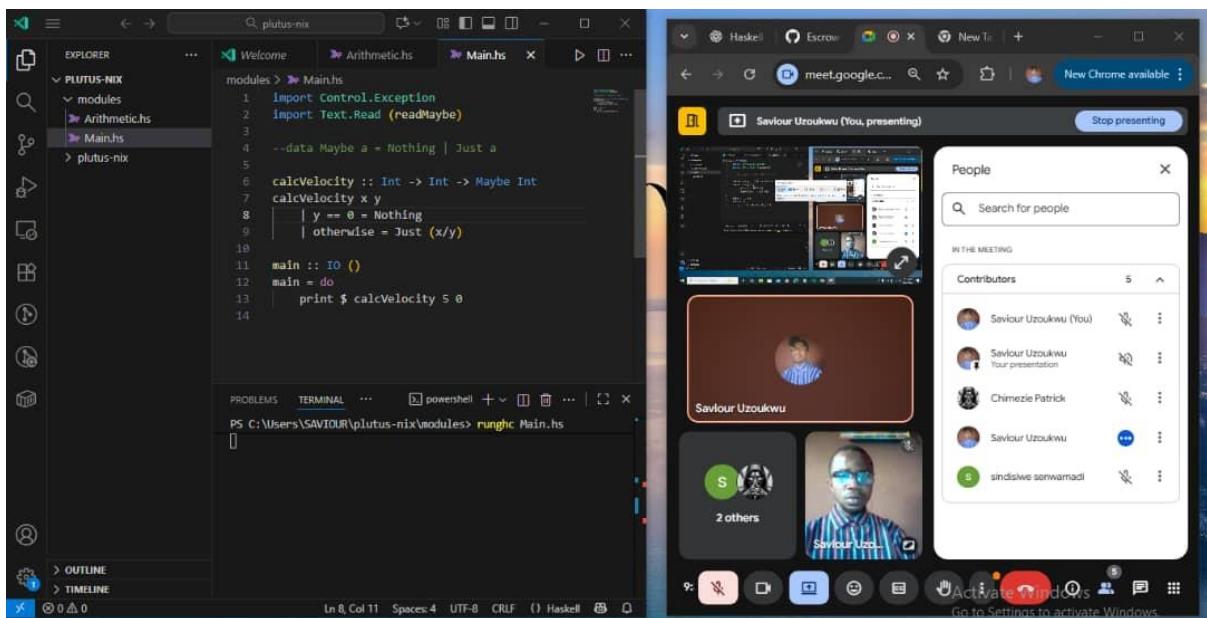
**Achievement of the day:** The students were able to some key aspects of plutus code like the TxInfo etc.

13/30

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## 2.2. 11/7/25, Second weekly meeting with student developers



**Time:** 17:00-18:00

**Attendance:** 4

**Expected Attendance:** 10

**Summary:** Went through chapters 15 and where given practical questions based on what was learnt

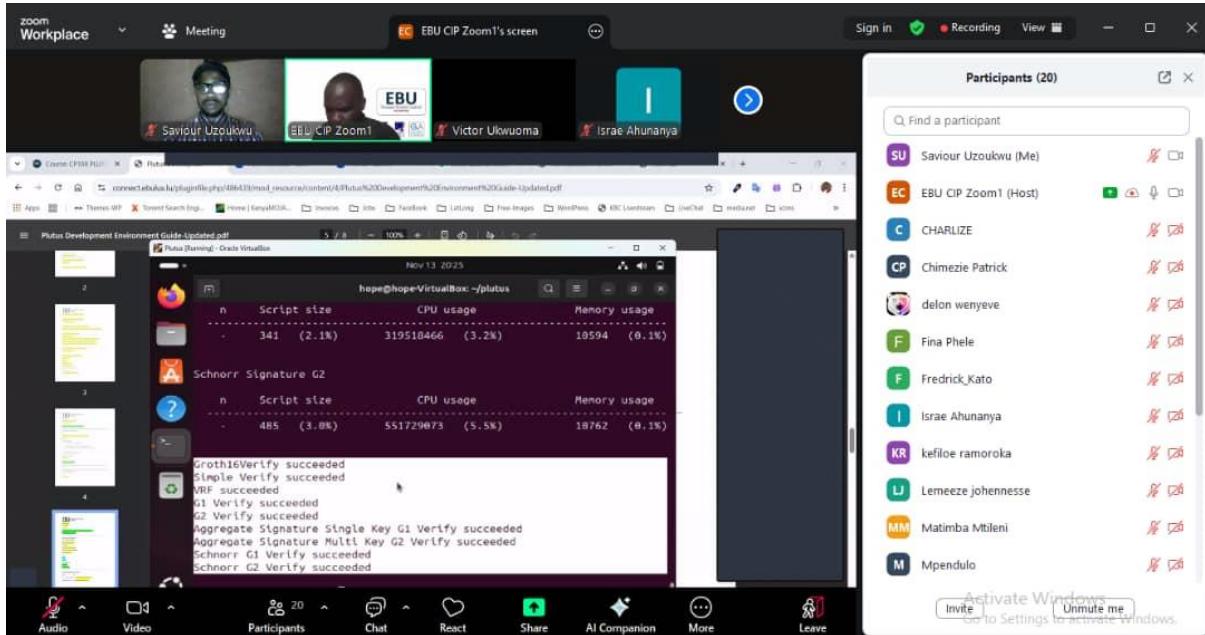
**Achievement of the day:** The students were able to understand what errors are in Haskell and how to handle them

14/30

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## 2.2. 11/13/25, Third weekly meeting held at the EBU



**Time:** 17:00-18:00

**Attendance:** 10

**Expected Attendance:** 13

**Summary:** We had our EBU session for the week

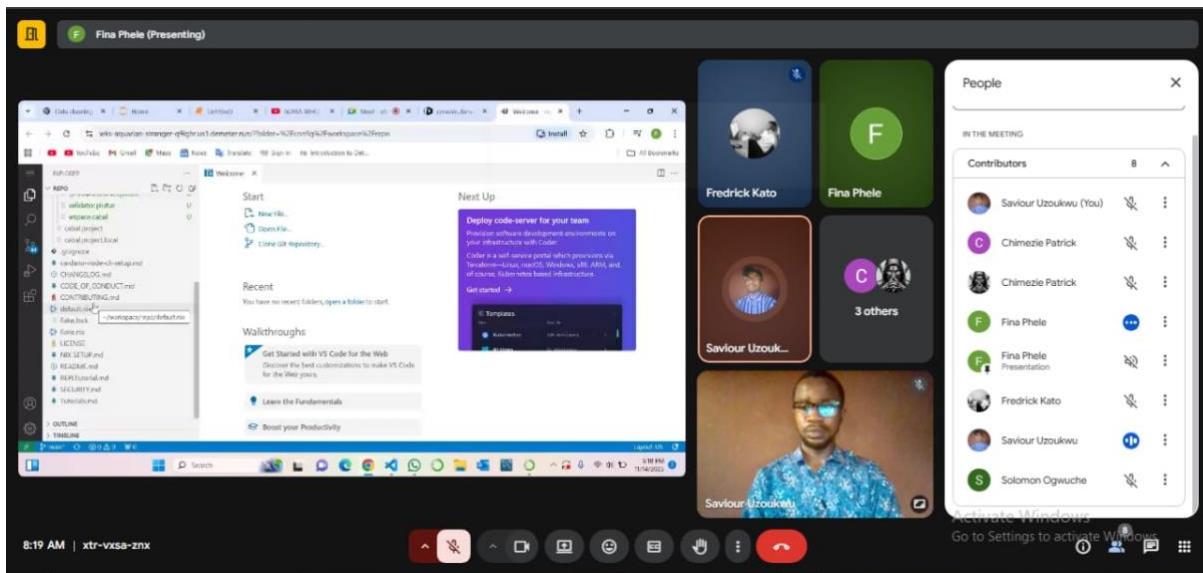
**Achievement of the day:** The students were able to some key aspects of plutus code like the TxInfo etc.

15/30

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## 2.3. 11/14/25, Fourth weekly meeting with student developers



**Time:** 17:00-18:00

**Attendance:** 4

**Expected Attendance:** 10

**Summary:** Went through chapters 15 and where given practical questions based on what was learnt

**Achievement of the day:** The students were able to understand what errors are in Haskell and how to handle them

16/30

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## 2.4. 11/20/25, Fifth weekly meeting held at the EBU

The screenshot shows a Zoom meeting interface. At the top, it says 'zoom Workplace' and 'Meeting'. The title bar includes 'EBU CIP Zoom1's screen'. On the left, there's a video feed of Saviour Uzoukwu and another participant. In the center, there's a slide with the EBU logo and the text 'Example 1 - The "Free" Policy'. Below the slide, the text reads: 'Policy Goal: Write the simplest possible policy that allows arbitrary minting and burning.' Underneath, it says 'On-Chain Code (mkPolicy): Haskell' and shows the following code:

```
if # INCLUSIVE mkPolicy #=>
    mkPolicy :: () -> ScriptContext -> Bool
    mkPolicy () = True
```

Below the code, it says 'This policy ignores the context and always returns True.' and 'Off-Chain Logic (The mint Contract):'. It describes the logic for minting and burning tokens. To the right, a 'Participants (15)' list is shown with 15 names, each with a video thumbnail and a muted/unmuted status indicator.

**Time:** 17:00-18:00

**Attendance:** 10

**Expected Attendance:** 13

**Summary:** We had our EBU session for the week

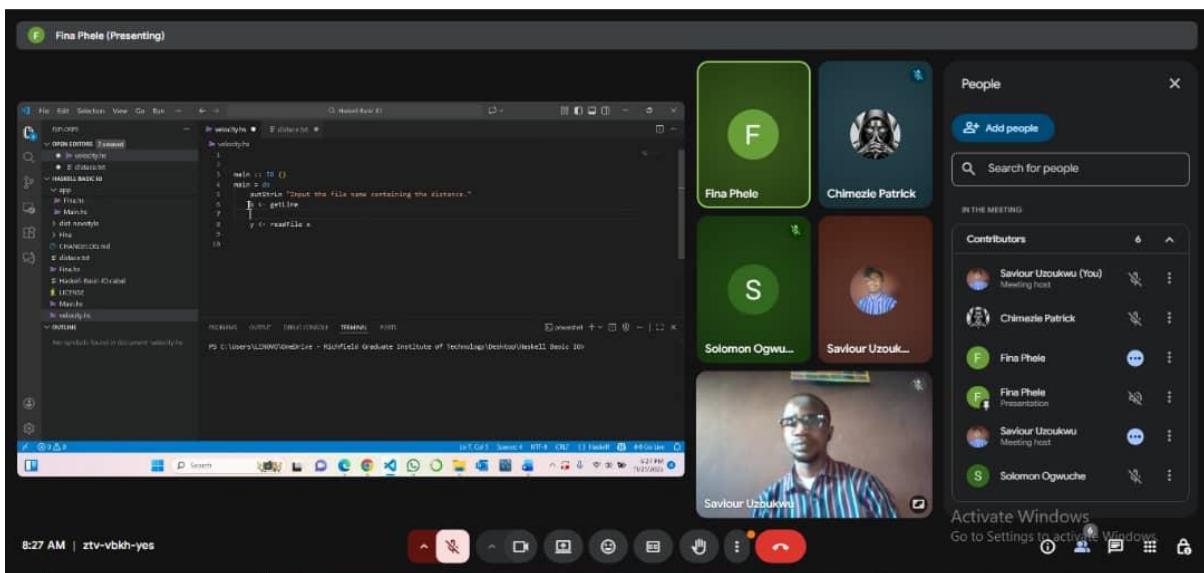
**Achievement of the day:** The students were able to some key aspects of plutus code like the TxInfo etc.

17/30

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## 2.5. 11/21/25, Sixth weekly meeting with student developers



**Time:** 17:00-18:00

**Attendance:** 4

**Expected Attendance:** 10

**Summary:** Went through chapters 15 and where given practical questions based on what was learnt

**Achievement of the day:** The students were able to understand what errors are in Haskell and how to handle them

18/30

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## 2.6. 11/27/25, Seventh weekly meeting held at the EBU



**Time:** 17:00-18:00

**Attendance:** 10

**Expected Attendance:** 13

**Summary:** We had our EBU session for the week

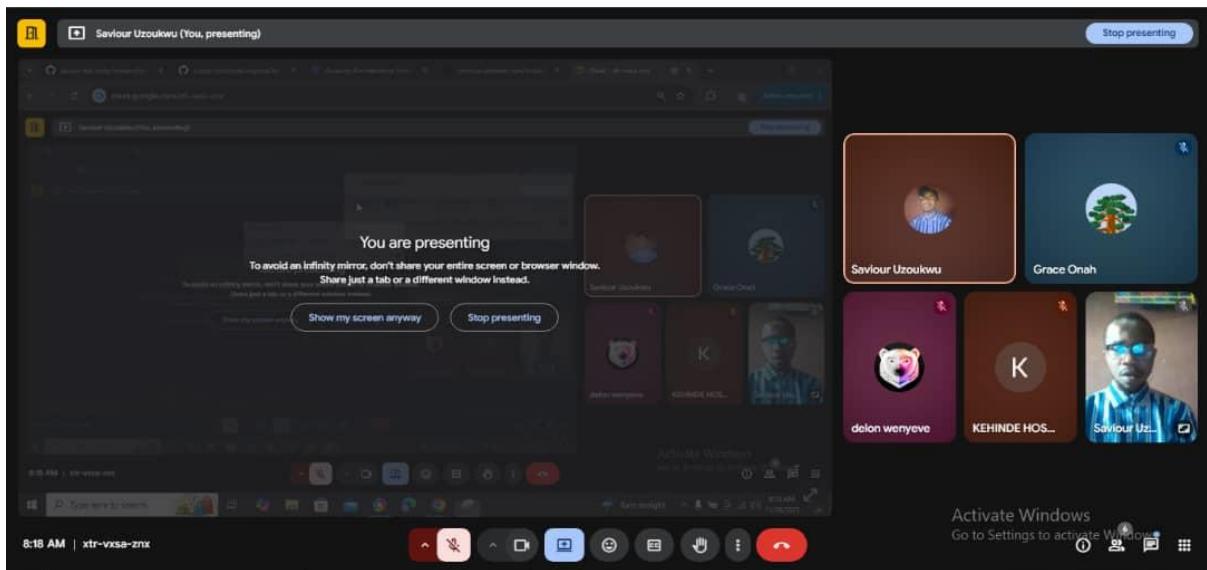
**Achievement of the day:** The students were able to some key aspects of plutos code like the TxInfo etc.

19/30

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## 2.7. 11/28/25, Eighth weekly meeting with student developers



**Time:** 17:00-18:00

**Attendance:** 4

**Expected Attendance:** 10

**Summary:** Went through chapters 15 and where given practical questions based on what was learnt

**Achievement of the day:** The students were able to understand what errors are in Haskell and how to handle them

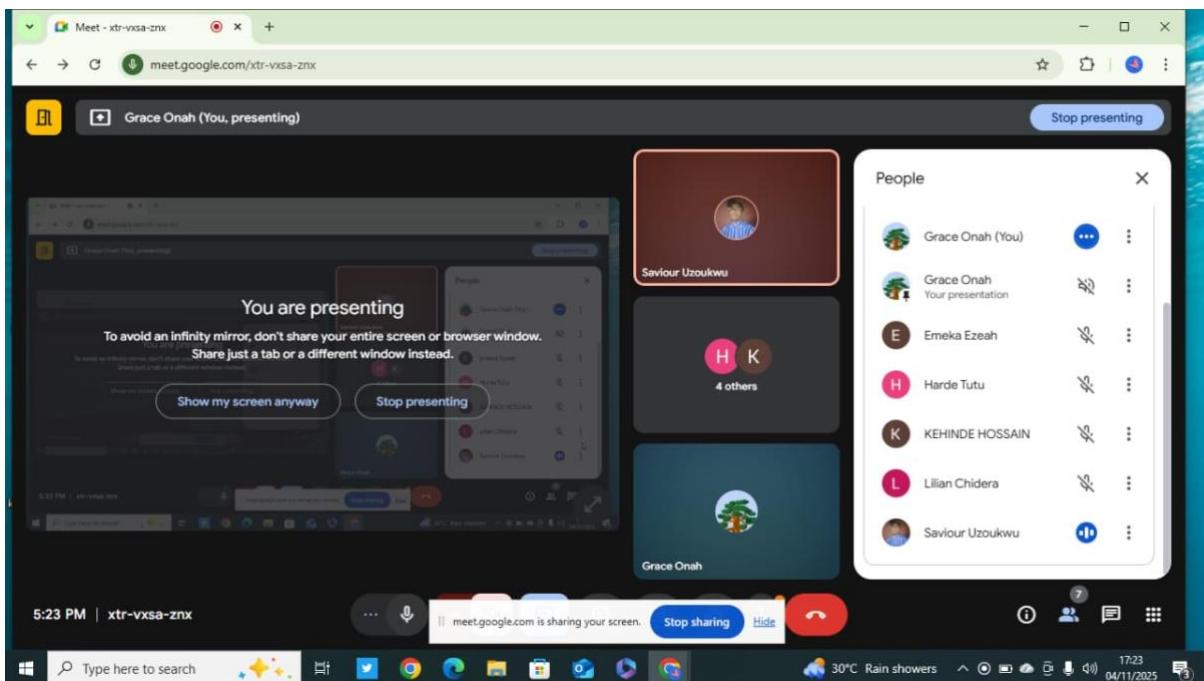
20/30

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### 3 Facilitation Meetings (Group: G016)

3.1. 11/4/25, First weekly meeting with student developers



**Time:** 17:00-18:00

**Attendance:** 7

**Expected Attendance:** 10

**Summary:** Went through chapters 14 and where given practical questions based on what was learnt.

21/30

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**Achievement of the day:** The students were able to install and understand how to use the cabal files

### 3.2. 11/5/25, Second weekly meeting with student developers



**Time:** 17:00-18:00

**Attendance:** 8

**Expected Attendance:** 10

**Summary:** Went through chapters 14 and where given practical questions based on what was learnt.

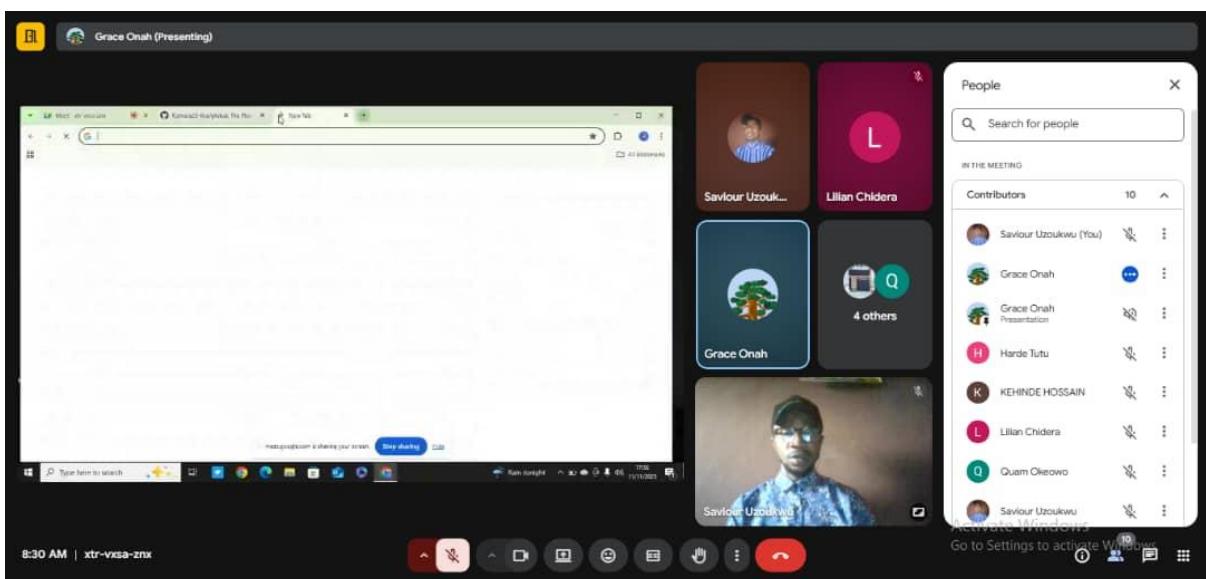
**Achievement of the day:** The students were able to install and understand how to use the cabal files

22/30

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### 3.3. 11/11/25, Third weekly meeting with student developers



**Time:** 17:00-18:00

**Attendance:** 7

**Expected Attendance:** 10

**Summary:** Went through chapters 14 and where given practical questions based on what was learnt.

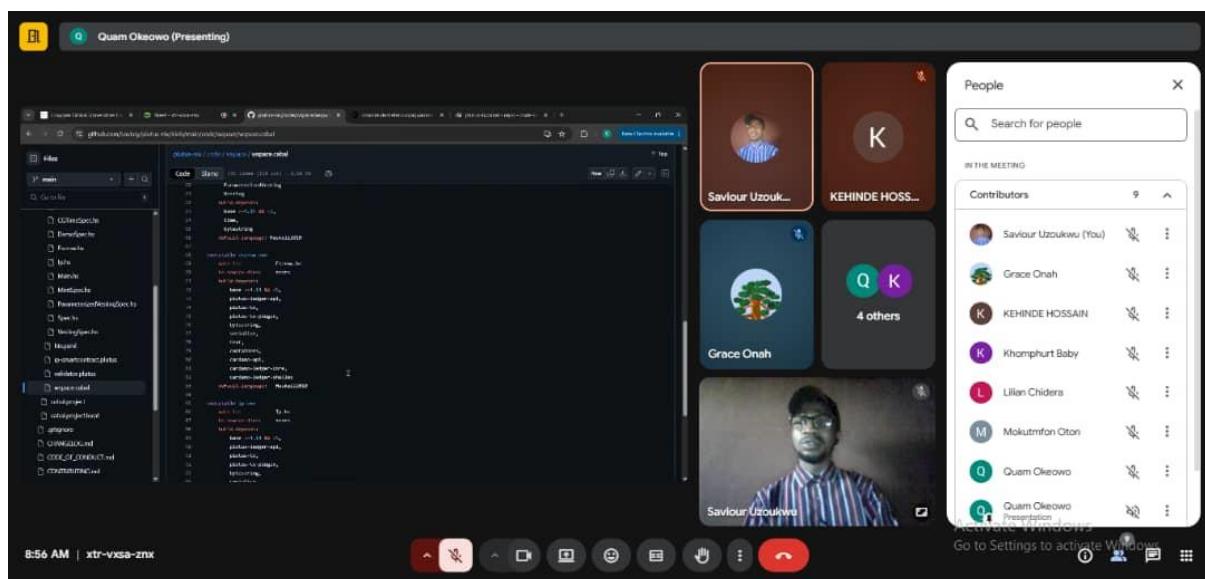
**Achievement of the day:** The students were able to install and understand how to use the cabal files

23/30

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### 3.4. 11/12/25, Fourth weekly meeting with student developers



**Time:** 17:00-18:00

**Attendance:** 6

**Expected Attendance:** 10

**Summary:** Went through chapters 14 and where given practical questions based on what was learnt.

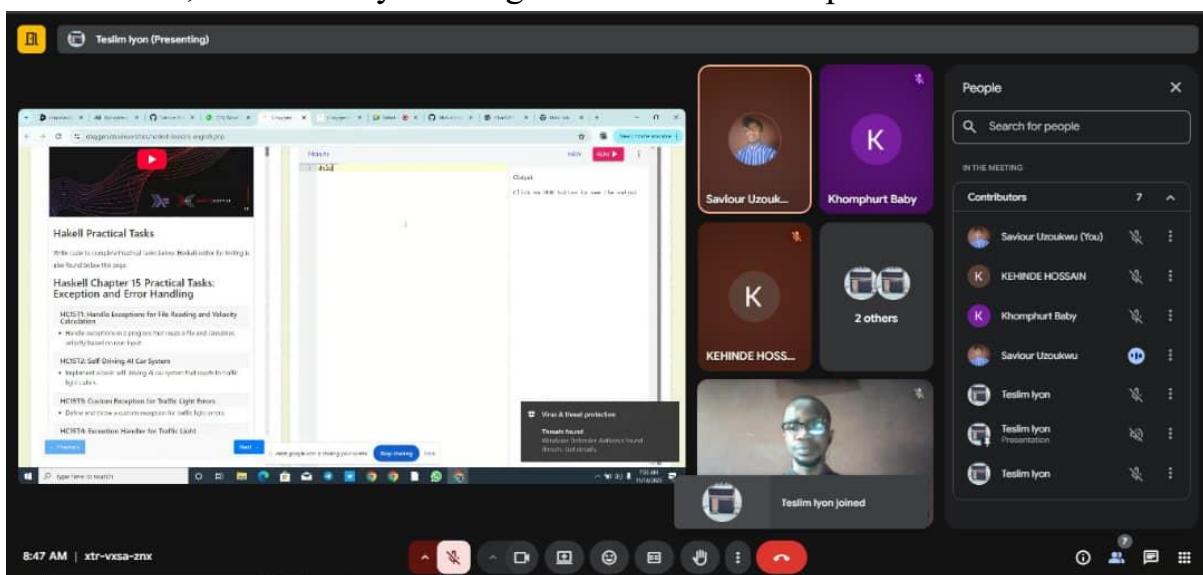
**Achievement of the day:** The students were able to install and understand how to use the cabal files

24/30

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### 3.5. 11/18/25, Fifth weekly meeting with student developers



**Time:** 17:00-18:00

**Attendance:** 3

**Expected Attendance:** 10

**Summary:** Went through chapters 15 and where given practical questions based on what was learnt.

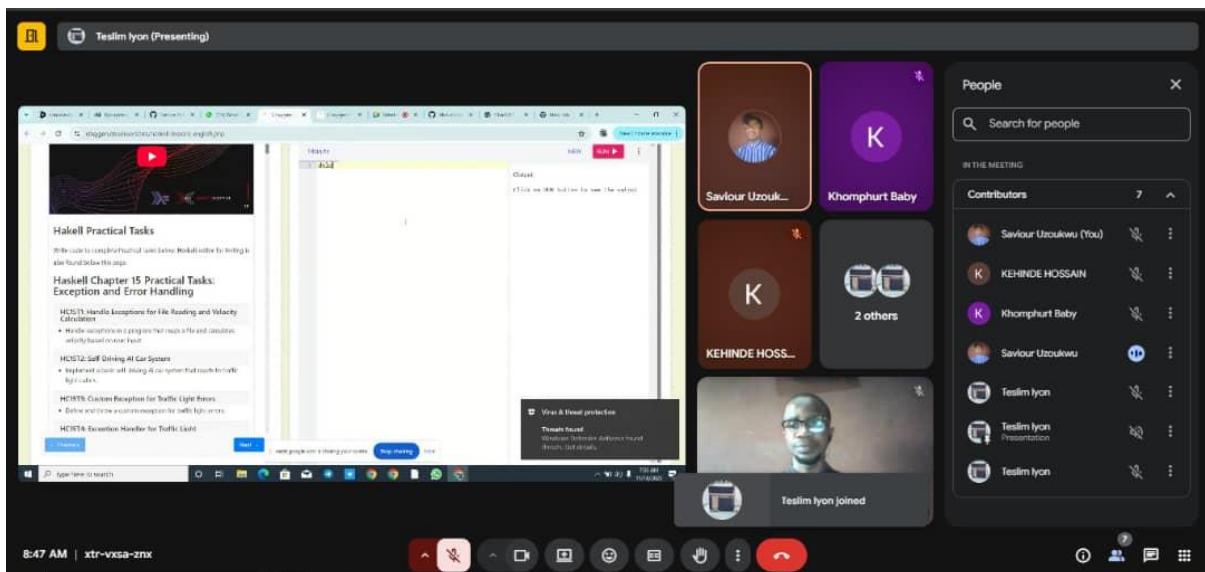
**Achievement of the day:** The students were able to understand what errors are in haskell and how to handle them

25/30

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### 3.6. 11/19/25, Sixth weekly meeting with student developers



**Time:** 17:00-18:00

**Attendance:** 3

**Expected Attendance:** 10

**Summary:** Went through chapters 15 and where given practical questions based on what was learnt.

26/30

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**Achievement of the day:** The students were able to understand what errors are in haskell and how to handle them

### 3.7. 11/25/25, Seventh weekly meeting with student developers

The screenshot shows a dual-pane Haskell development environment. On the left, a browser window displays a Haskell lesson titled "Haskell Chapter 15 Practical Tasks: Exception and Error Handling". It lists four tasks: HC15T1, HC15T2, HC15T3, and HC15T4. HC15T1 is selected, showing a task about handling exceptions for file reading and velocity calculation. On the right, an IDE window titled "haskell [Administrator]" shows a code editor with a Haskell file named "main.hs". The code reads a file containing distance and time, calculates velocity, and prints the result. Below the code editor is a terminal window showing a PowerShell prompt at "C:\Users\USER\Documents\haskell>".

```
main :: IO ()
main = do
    putStrLn "Input file name containing distance"
    x <- getLine
    y <- readFile x
    putStrLn "Input time"
    a <- getLine
    let distance = read y :: Double
        time = read a :: Double
        velocity = distance / time
    putStrLn ("Your calculated velocity is " ++ show velocity)
```

**Time:** 17:00-18:00

**Attendance:** 8

**Expected Attendance:** 10

27/30

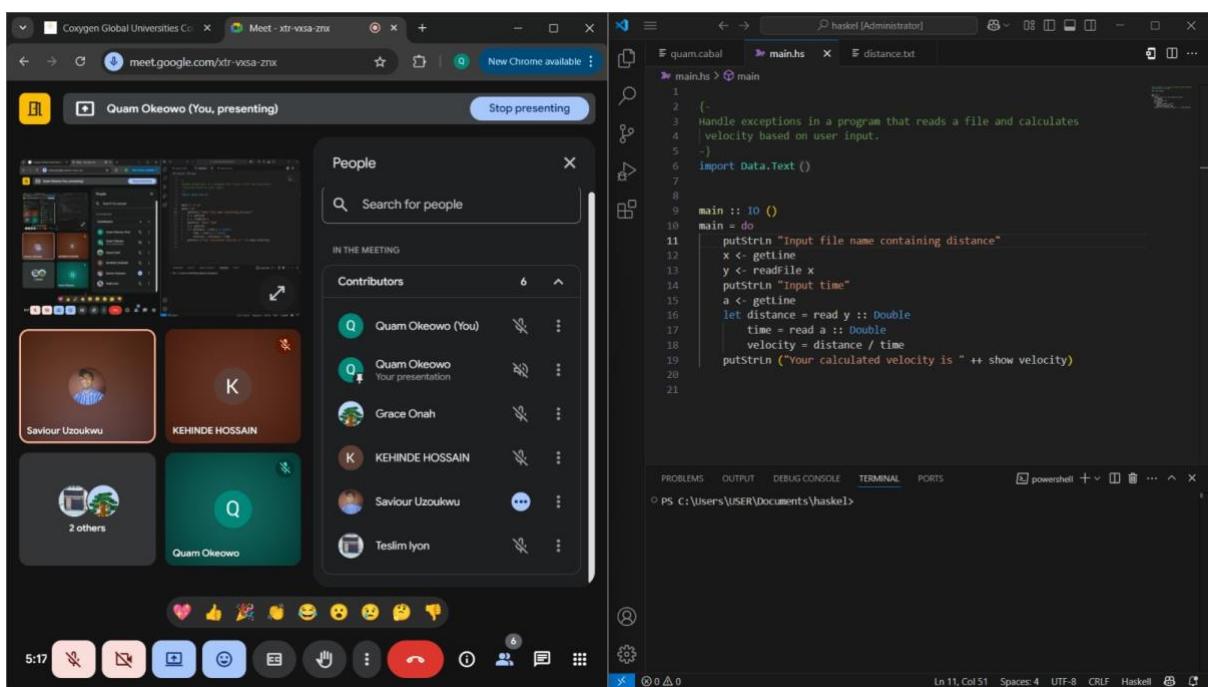
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**Summary:**  
Went through chapters 15 and where given practical questions based on what was learnt.

**Achievement of the day:** The students were able to understand what errors are in haskell and how to handle them

### 3.8. 11/26/25, Eighth weekly meeting with student developers



**Time:** 17:00-18:00

**Attendance:** 5

28/30

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**Expected Attendance:** 10

**Summary:** Went through chapters 15 and where given practical questions based on what was learnt.

**Achievement of the day:** The students were able to understand what errors are in haskell and how to handle them

## 4 Developer Session And Source Codes

### 4.1. Plutus Smart Contracts Project

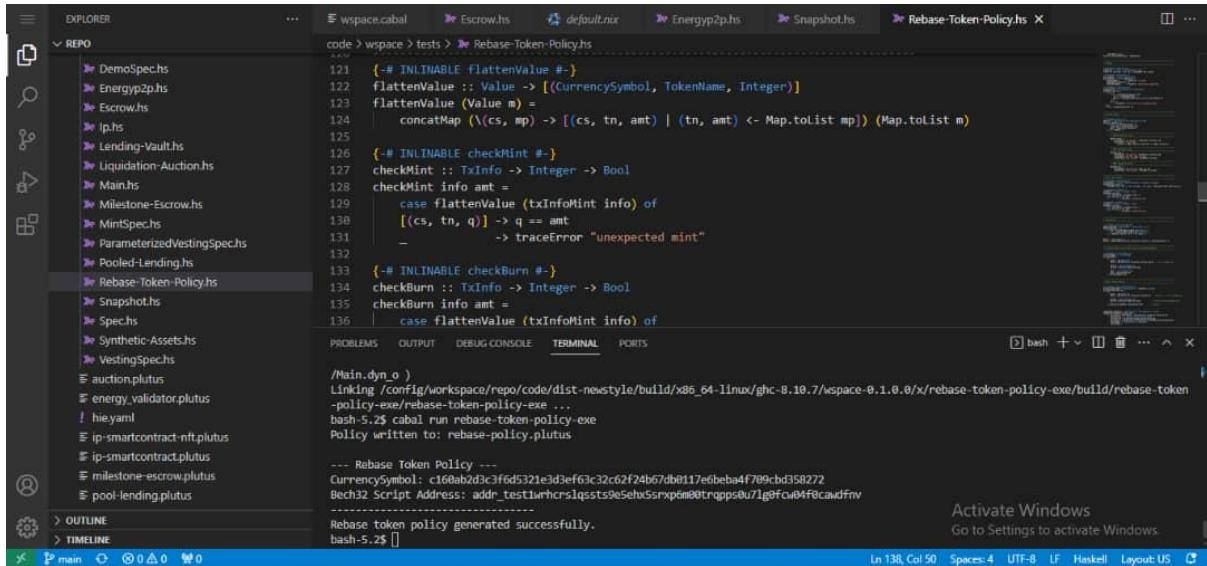
I was able to successfully create 12 different working smart contracts and their respective html and md files for their tutorials

Here is the link to the GitHub repository:

<https://github.com/Savissy/plutus-nix/tree/main/code/wspace/tests>

Testing:

Here is a screenshot showing one of the codes which is fully functional and it compiles and runs successfully



```
code > wspace > tests > Rebase-Token-Policy.hs
121 {-# INLINABLE flattenValue #-}
122 flattenValue :: Value -> [(CurrencySymbol, TokenName, Integer)]
123 flattenValue (Value m) =
124   concatMap (\(cs, tn, amt) -> [(cs, tn, amt) | (tn, amt) <- Map.toList mp]) (Map.toList m)
125
126 {-# INLINABLE checkMint #-}
127 checkMint :: TxInfo -> Integer -> Bool
128 checkMint info amt =
129   case flattenValue (txInfoMint info) of
130     [(cs, tn, q)] -> q == amt
131     _ -> traceError "unexpected mint"
132
133 {-# INLINABLE checkBurn #-}
134 checkBurn :: TxInfo -> Integer -> Bool
135 checkBurn info amt =
136   case flattenValue (txInfoBurn info) of
137     [(cs, tn, q)] -> q == amt
138     _ -> traceError "unexpected burn"

/Mail.dyn.o
Linking /config/workspace/repo/code/dist-newstyle/build/x86_64-linux/ghc-8.10.7/wspace-0.1.0.0/x/rebase-token-policy-exe/build/rebase-token-policy-exe/rebase-token-policy-exe ...
bash-5.2$ cabal run rebase-token-policy-exe
Policy written to: rebase-policy.plutus
-----
--- Rebase Token Policy ---
CurrencySymbol: c160ab2d3c0f6d5321e3d3ef63c32c62f24b67db0117e6beba4f709cbd358272
Bech32 Script Address: addr-test1whcrslqsst9e5ehx5srxp0m0trppss8u7lg0fcu84fcudnfv
-----
Rebase token policy generated successfully.
bash-5.2$ []
```

Activate Windows  
Go to Settings to activate Windows.

30/30

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