

FYP Logbook Entry Sheet

Meeting No: 15

Date: 2025-03-30

Start Time: 10:00 am

End Time: 12:00 pm

Items Discussed:

1. Verified that DNS traffic was correctly extracted and displayed in the frontend table using Django Channels for real-time updates.
2. Discussed the implementation of mapping outgoing traffic's IP addresses to latitude and longitude, storing them in Redis, and retrieving them through Channels for socket connections.
3. Initiated the final documentation for the FYP, focusing on compiling development progress and implementation details.

Achievements:

1. Real-time DNS traffic is successfully displayed in the frontend via Channels.
2. Outgoing traffic's geolocation (lat/long) mapping implemented, stored in Redis, and retrieved for frontend use via WebSocket connections.
3. Started working on the FYP final documentation draft.

Problems:

1. Encountered an issue where latitude and longitude values were mistakenly swapped before storing in Redis, which caused incorrect mapping to locations. The issue was identified and fixed.

Tasks for Next Meeting:

1. Finalize map visualization for outgoing traffic with accurate geolocation.
2. Continue working on and completing the FYP final documentation.
3. Test overall system for data consistency and prepare for final presentation/demo.

Student Sign

Internal Supervisor Sign

External Supervisor Sign