FYP Logbook Entry Sheet

Meeting No: 12   **Date: 2025-03-09**

Start Time: 2:00 pm   **End Time: 4:00 pm**

Items Discussed:
Progress in the implementation of web socket (Django channels) to display the logs at the front end that will be stored in the Logs table.
Optimized frontend in the upload pcap page to display the already uploaded pcap files by calculating the hash of the file.
Implemented rate limiting on the login function to stop unnecessary login attempts and temporarily block the user from logging in.
Started the development of real-time network analysis functionality.

Achievements:
Implemented a feature to generate and web application system logs when a user does a particular action like creating a new user, multiple failed login attempts, changing user details etc. and display the logs automatically in the frontend using Django channels.
Optimized frontend on the pcap upload page and the rules management page.
Implemented a function to be able to download all the rules in a zip file. When a user tires to incorrect login for more than 5 times it will be blocked from logging in.

Problems:
Faced an issue when entering a non-existent username during login results in an error message stating "The user doesn't exist." Handled this scenario by setting the username as null in the logs if the user doesn't exist.

Tasks for Next Meeting:
Continue working on realtime NIDS module.

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Student Sign   **Internal Supervisor Sign**   **External Supervisor Sign**