Group 49
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Design Overview

The Scuba Chat application will be a fully distributed multi-hop ad-hoc chat application using wireless sound communication between at least four devices. The chat application will be TUI-based, and it will allow communication between each two of the four different nodes at one point in time. Implementing further features will depend on how the current planning goes and the closeness of the deadline. Some examples of these extra features would be: more security, a group chat or emoji/file transfer.

Tasks to be Performed

- Addressing
- Medium Access Control
- Reliable Data Transfer
- Routing & Forwarding
- Simple Chat App
- Final Report
    - System architecture and diagram
    - Description of system and its functionalities
    - Test setup and scenarios
    - Test results

Optional features
- Security
- Group chat
- File/emoji transfer
- GUI instead of TUI

Member Responsibilities

- Andrei Bercea: Reliable Data Transfer
- Christopher Colomb: Routing & Forwarding
- Maika Rabenitas: Addressing
- Patrick van Oerle: Medium Access Control
- All members: Simple Chat App + Final Report

Timeline

5 April: Submit project planning

-Things to do before the initial demo-

- 8 April (Monday): Start with the tasks assigned
- 9 April (Tuesday): Continue working on the tasks + update on what's been done
- 10 April (Wednesday): Finish the tasks + update on what's been done and problems that have occurred
- 11 April (Thursday): Piece it together

12 April (10:00-11:00): Initial demo
13-15 April: Revise project where needed upon receiving feedback
16 April (12:00): Final demo
16-18 April: Finalize report
18 April: Submit final report and code