

**Task**● **1) GUI**

- 1.1) Client & Server GUI
- 1.2) GUI Helper Functions
- 1.3) File Handling
- 1.4) Client & Server Controls
- 1.5) Waveform Analysis

● **2) Networking**

- 2.1) Socket Connections
- 2.2) Control Channel
- 2.3) File Downloading & Uploading
- 2.4) Single-client Streaming
- 2.5) Circular Buffer
- 2.6) Multicasting
 - 2.6.1) Add IP Addresses to Set
 - 2.6.2) Send Buffer to all in Set

● **3) Multimedia**

- 3.1) Play Local File
- 3.2) Play from Buffer
- 3.3) Continuous Play from Buffer
- 3.4) Microphone Support
- 3.5) MP3 File Support

● **4) Integration & Debugging**

- 4.1) GUI
- 4.2) Networking
- 4.3) Multimedia

● **5) Documentation**

- 5.1) Update Design Work
- 5.2) User Manual

