

Tracking Employees

Prepared by:

Name: Mohammed Al-Hajji

ID#200876740

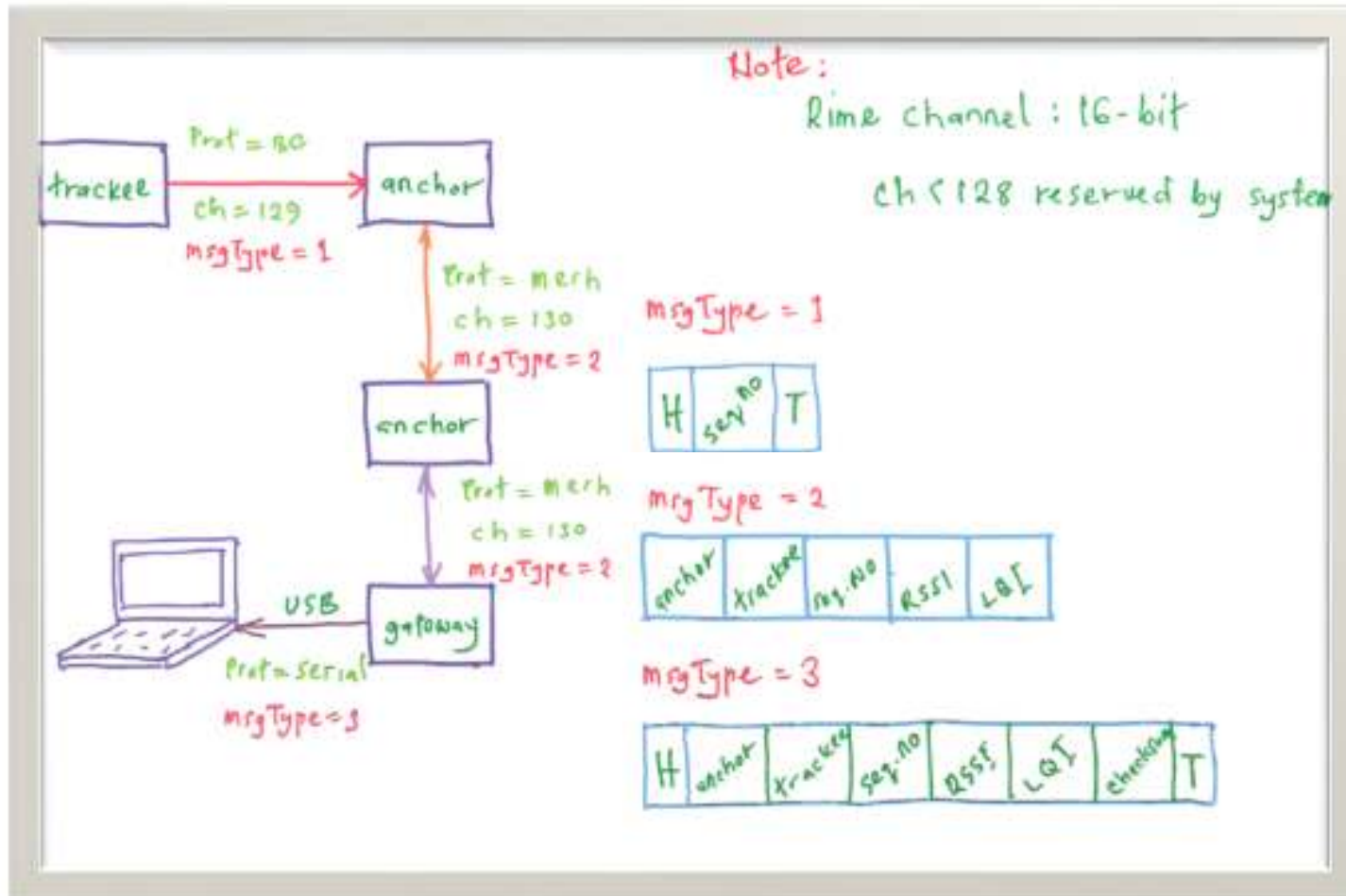
Name: Abdullah Al-Ghaith

ID#200995130

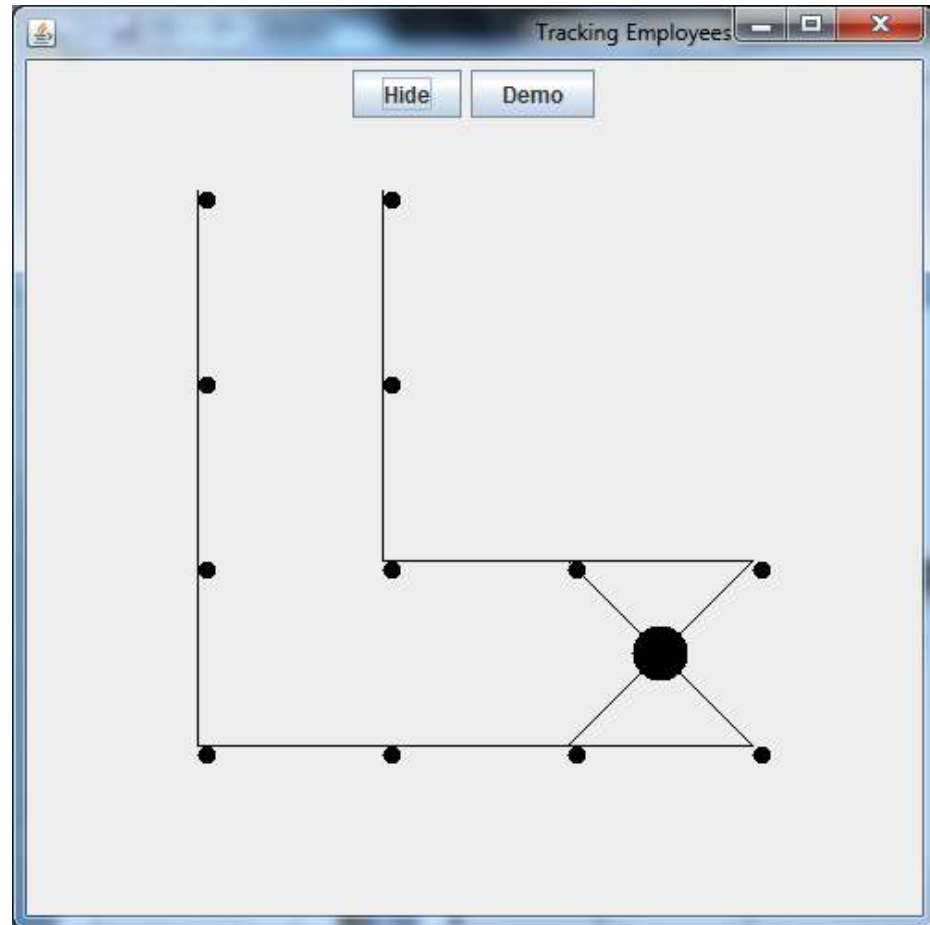
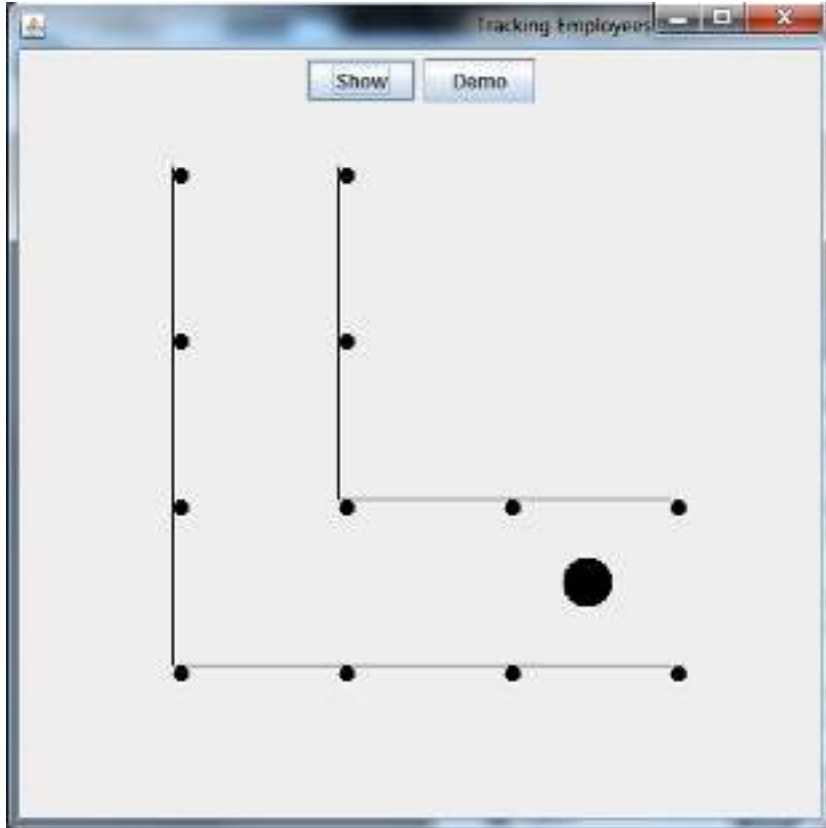
Outline

- Introduction
- GUI
- Serial Communication
- Future Plan
- Conclusion

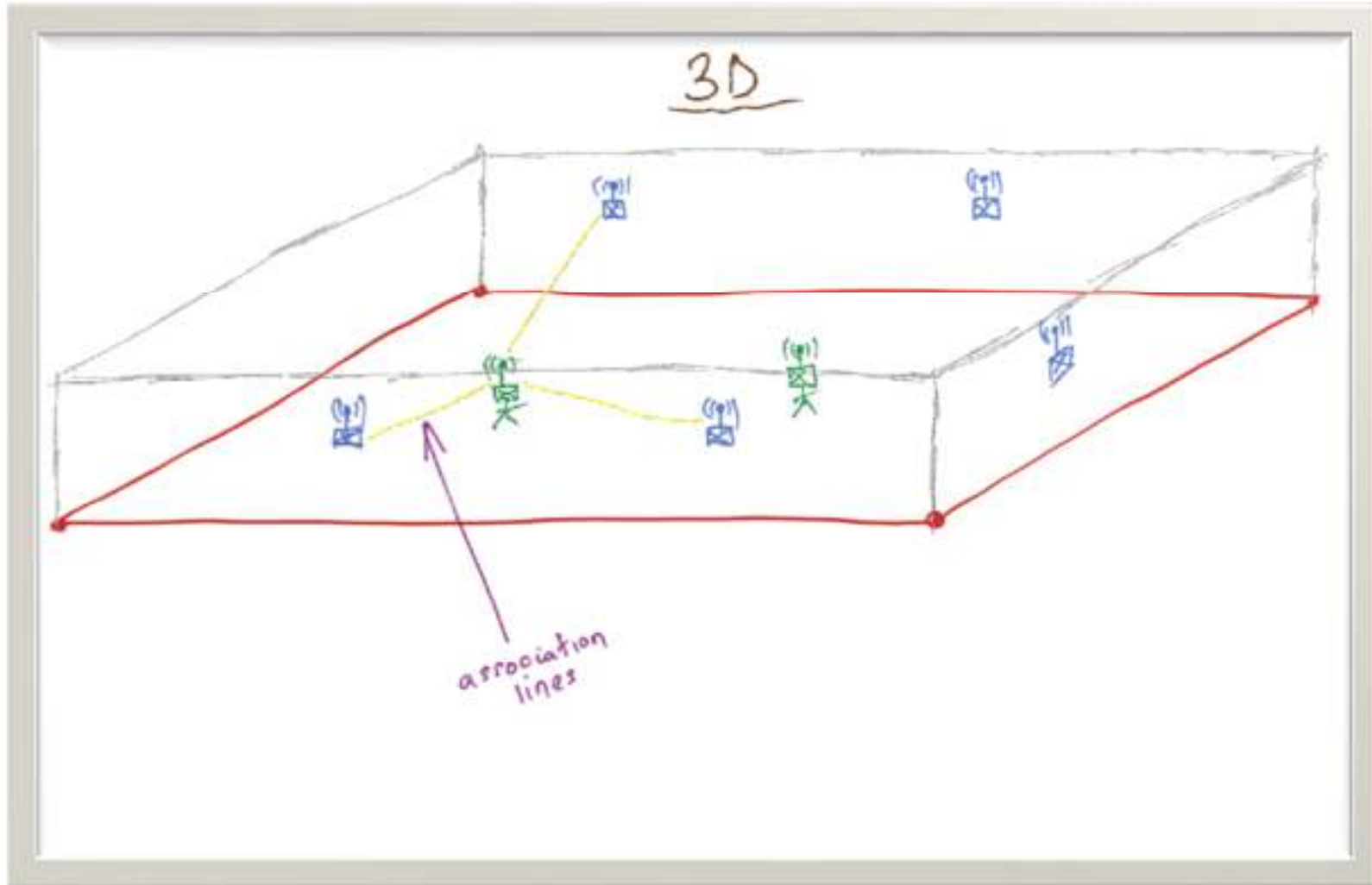
Introduction



GUI



GUI



Serial Communication

The image shows a screenshot of an IDE (likely Eclipse) with two windows. The left window shows the source code for a Java class named `serial.java`. The code imports various Java classes related to serial communication and implements the `SerialPortEventListener` interface. It defines a `serial` class with a `SerialPort` member and a `loop` method. The `loop` method prints several messages to the serial port, including "Hello, I am Arduino MEGA 2560", "test succeeded", and "test failed".

```
import gnu.io.CommPortIdentifier;
import gnu.io.SerialPort;
import gnu.io.SerialPortEvent;
import gnu.io.SerialPortEventListener;
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.io.OutputStream;
import java.util.Enumeration;

public class serial implements SerialPortEventListener {
    SerialPort serialPort;
    /** The port we're normally going to use. */
    private static final String PORT_NAMES[] = { "COM1" }; // Windows
    /**
     * A BufferedReader which will be fed by a InputStreamReader
     * converting the bytes into characters
     * making the displayed results codepage independent
     */
    private BufferedReader input;
    /** The output stream to the port */
    private OutputStream output;

    public void serialEvent(SerialPortEvent event) {
        // ... (code omitted) ...
    }
}
```

The right window shows the output of the program. The output is displayed in a terminal window titled "serialTestJAVA | 1.0.2". The output shows the following messages:

```
Serial.begin(9600);
*****
Hello, I am Arduino MEGA 2560;
*****1*****
*****2*****
*****3*****
test succeeded
*****
test failed
*****
```

The bottom of the IDE shows the "General Output" window with the following text:

```
Configuration: (Default)
-----
Stable Library
-----
Native lib Version = RTX-2.1-7
Java lib Version = RTX-2.1-7
Started
*****
Hello, I am Arduino MEGA 2560
*****1*****
*****2*****
*****3*****
test succeeded
*****
test failed
*****
Process interrupted by user.
```

Future Plan

- Improve the GUI.
- Merge GUI and serial with simulating Arduino data.
- Implement the actual hardware when receiving the parts.

Conclusion

Questions .!?