# **User Guide**

Weather Monitoring System

#### Server

#### Setting up

Edit the *server.conf* file with the required settings.

@server_com	Port for socket communication
	Default: 6666
@rmi_port	Port for the RMI Registry
	Default: 1099

#### Running the Server

- 1. Start rmiregistry
- 2. Start the server using the **Server.jar** executable jar file.

#### Managing users

#### Add New User

Command format: @add <username> <password>

Example: @add user123 pass123

#### Remove Existing User

Command format: @remove <username>

Example: @remove user123

#### Note:

- 1. AES Encryption is used to secure your usernames and passwords. User details are stored in **users.conf** file.
- 2. Server needs to be restarted once a change is made to its configurations
- 3. If a user is removed while he is connected, automatically his session gets destroyed.

## Shutting down the Server

1. Type 'exit' and press Enter.

```
Loading configurations...

Socket communication port: 9999

RMI port: 1099

Server started...

Listening on port 9999 for sensors

Type 'exit' to shutdown server

exit

Shutting down server...
```

Figure 1: A healthy run

## Sensor

## Setting up

Edit the *sensor.conf* file with the required settings.

@sensor_com	Port for socket communication
	Default: 6666
@server	Server's IP address
	Default: localhost

# Running the Sensor

1. Start the sensor application using the **Sensor.jar** executable jar file.

## Shutting down the Sensor

2. Type 'exit' and press Enter.

```
Loading configurations...

Server: localhost:6666

Enter location: Kandy

Available Sensor Types:

1. Air Pressure

2. Humidity

3. Rainfall

4. Temperature

Select type of sensor: 3

Connected to server

Type 'exit' to stop the sensor exit

Sensor shutting down...
```

Figure 2: A healthy run

# Monitoring Station Dashboard

# Setting up

Edit the *station.conf* file with the required settings.

@rmi_host	Host address for RMI
	Default: localhost
@rmi_port	Port for RMI
	Default: 1099

# Running the Station

- 1. Start the station application using the **Station.jar** executable jar file.
- 2. Login to the system



Figure 3: Login Popup

Default: Username: user Password: pass

3. Tool tips are available on the dashboard. Move your cursor on to elements to see what they do.

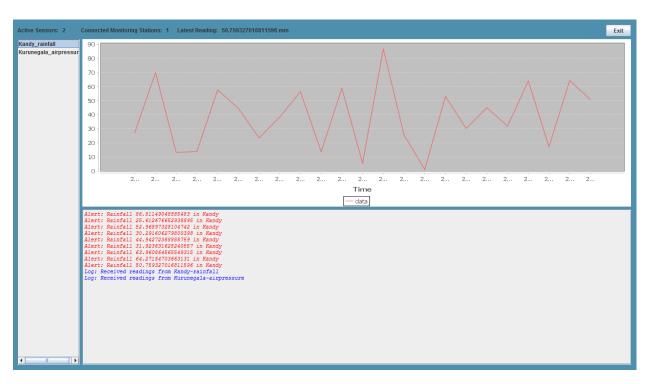


Figure 4: Dashboard

# Shutting down the Station

1. Click on the 'Exit' button on the right top corner and confirm.