



**POLITECNICO**  
MILANO 1863

# **Node-RED Evaluation Lab**

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# A Telegram Weather Bot

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- You are to implement a Telegram interface to the OpenWeather open service
- The Bot should answer three types of queries
  - **QUERY** <location> <country>
    - Returns the temperature of the specific location as an answer
  - **TRACK** <location> <country>
    - Adds to the user's tracking preference a specific location, and replies with an acknowledgement
  - **REPORT**
    - Answers with the current temperature of all locations in a user's current tracking preferences

# Some Examples

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- Bot: “**QUERY** Milan IT”
  - Answer: “The temperature in Milan is 3C!”
- Bot: “**TRACK** Milan IT”
  - Answer: “Tracking temperature for Milan!”
- Bot: “**REPORT**”
  - Answer: “The temperature in Milan is 3C!”
- Bot: “**TRACK** Rome IT”
  - Answer: “Tracking temperature for Rome!”
- Bot: “**REPORT**”
  - Answer:
    - “The temperature in Milan is 3C!”
    - “The temperature in Rome is 5C!”

# Notes

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- Locations are those of  
<https://openweathermap.org/find>
- Your solution must be able to keep track of different users!
  - Some some unique identifier
- You don't need to implement any error handling
  - Non-existing locations
  - **REPORT** with no user tracking preferences
  - ...
- Remember the Text node can only use the handlebars-like syntax with a message payload... and nothing else!

# Rules

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- Complete the README.md file with
  - Your group identifier
    - From the group registration document
  - Name of each group member
  - A 200-word (max) description of the message flows in your solution
    - What node sends what message to what other node, when, ...
  - List of extensions possibly used besides the ones seen during the regular labs
- Submit a single zip file with **only** the flow file and README.md
  - Remove everything that is not the project you want to submit
    - Other flows in different tabs, notes, ...
    - Make sure to export **the whole flow!**
  - Name of the file: nodered-groupXX.zip
    - XX is the group identifier from the group registration document
  - Submit by the user corresponding to the contact email specified in the group registration document
- Failure to stick to these rules yields a detraction of one point