



**POLITECNICO**  
MILANO 1863

# **Node-RED**

## **Evaluation Lab**

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# Your Bot!

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- You are to implement a Telegram bot using Node-RED capable of answering **four queries**
  - Return the average **temperature** in Milano or Hamburg based on the last ten readings of **sensor.community**
  - Return the maximum and minimum **humidity** in Milano or Hamburg based on the last ten readings of **sensor.community**
  - Return the list of user names the bot interacted with, until the time of the query
  - Confirm if the bot ever interacted with a specific user

# Examples

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- **User:** “What is the average temperature in Milano?”  
**Bot:** “According to sensor.community, the average temperature in Milano is 7C!”
- **User:** “Who did you talk to?”  
**Bot:** “In my whole life, I talked to Luca, Alessandro, and Pietro until now.”
  - You **must** properly format the output string!
- **User:** “Have you ever talked to Luca?”  
**Bot:** ”Yes, I talked to Luca before”

# Assumptions

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- User names are explicitly communicated to the bot
  - Example, from the user: “Hi, my name is Luca!”
- User names are unique
- You can format the queries the way you like
  - But you **must** format answers too!
- You can assume the bot is installed on a Node-RED machine that is up 24/7

# 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
  - URL of your bot, to be used by a regular Telegram client
- Create and submit a single zip file with the flow file and README.md
  - Remove everything that is not the project you want to submit
    - Other flows in different tabs, notes, ...
  - 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

# Bonus

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- The best three solutions will be deployed on one of our servers and stay up until end of the year!