



Project for “Piattaforme Software per la Rete”

2016 / 2017

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Goals

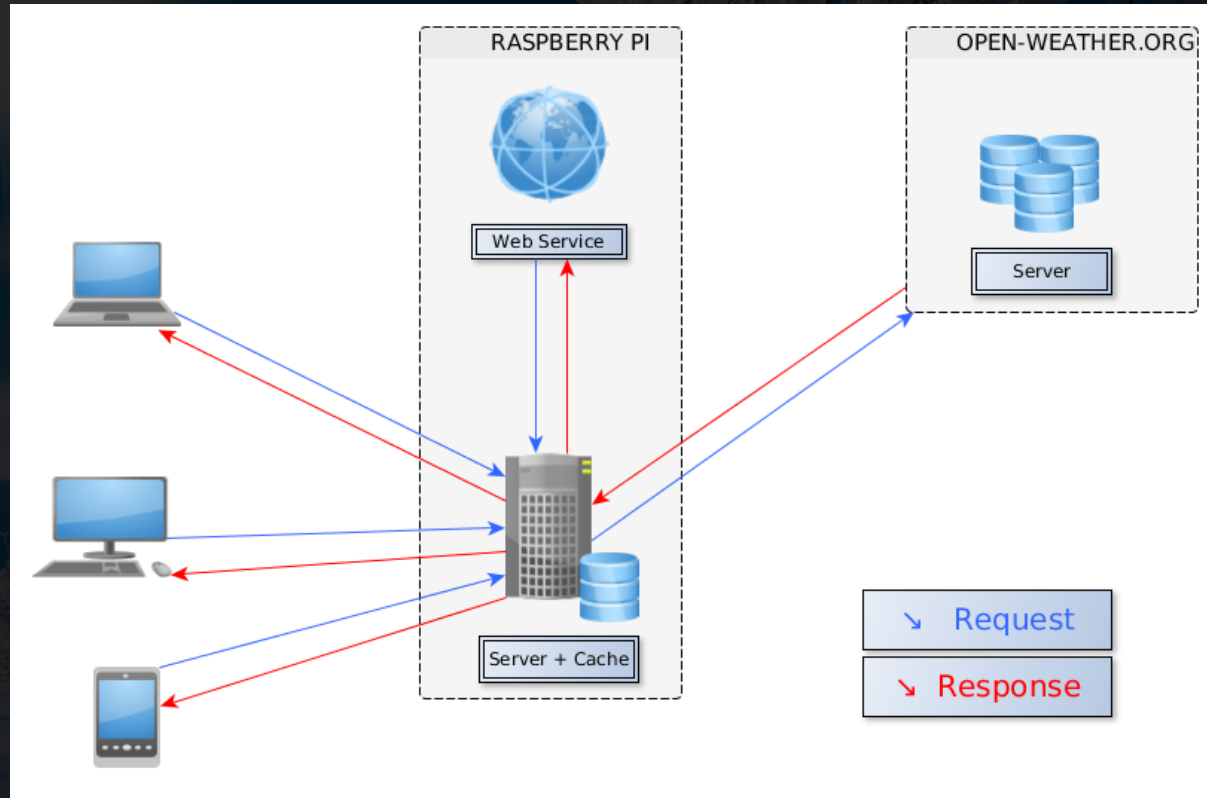


Developing
a weather application

Deploying to
multiple platforms

Linux, Windows and Android

Main Schema



The background of the slide is a dark, atmospheric photograph of a winter landscape. In the foreground and middle ground, there are several trees heavily laden with snow, their branches creating a complex, white web against the dark sky. The ground is also covered in a thick layer of snow, with some subtle shadows indicating its uneven surface. In the upper left corner, a bright sunburst or starburst effect is visible, with rays of light emanating from a central point, adding a dramatic and ethereal quality to the scene. The overall color palette is dominated by deep blues, blacks, and whites, creating a sense of cold and mystery.

Development

Server

Developed in Python



Using the Flask framework



Flask

```
from flask import Flask
app = Flask(__name__)
@app.route("/")
def hello():
    return "Hello World!"
if __name__ == "__main__":
    app.run()
```

Flask is a python web server framework used to deliver web pages to user's browsers. It's a good alternative to PHP.

Client

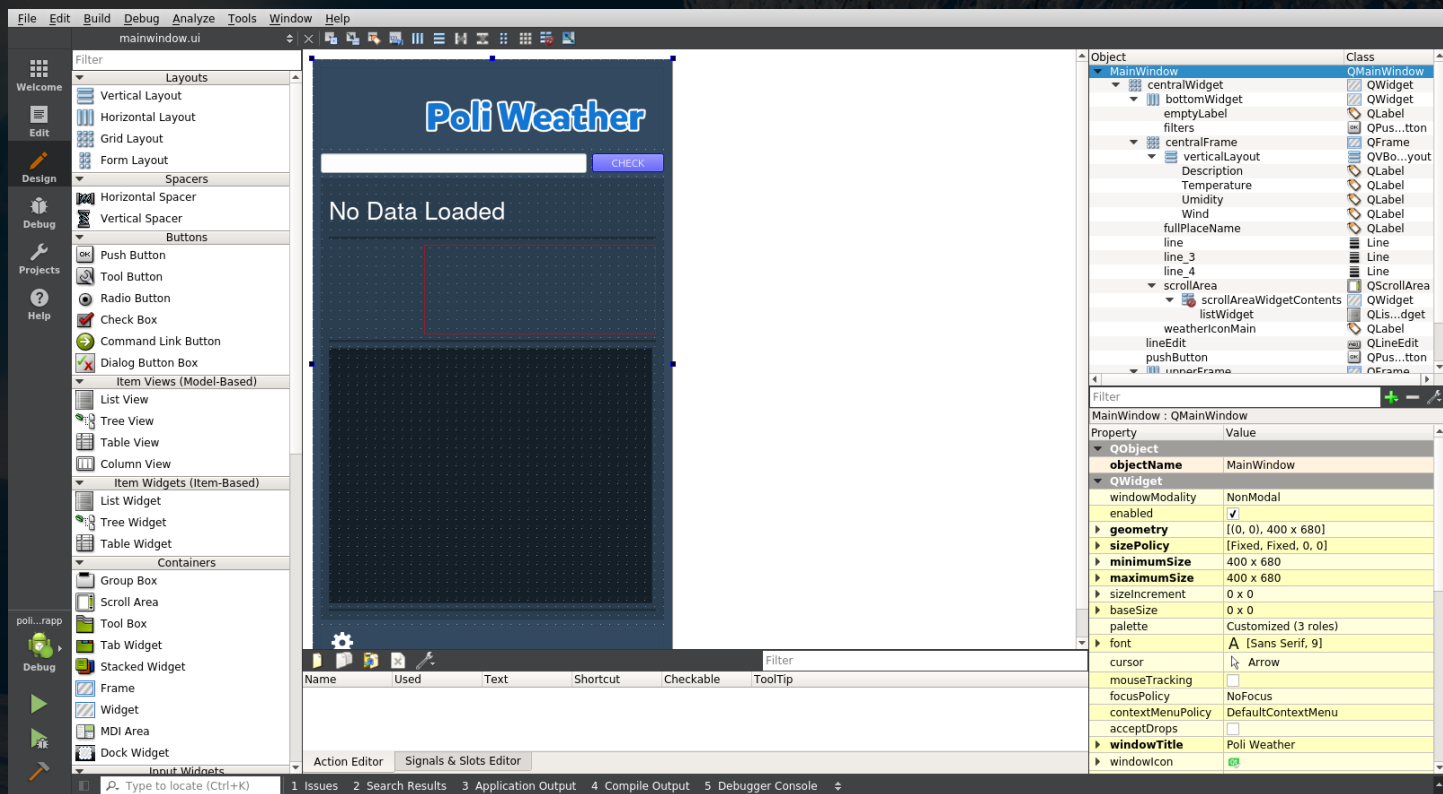
Developed in C++



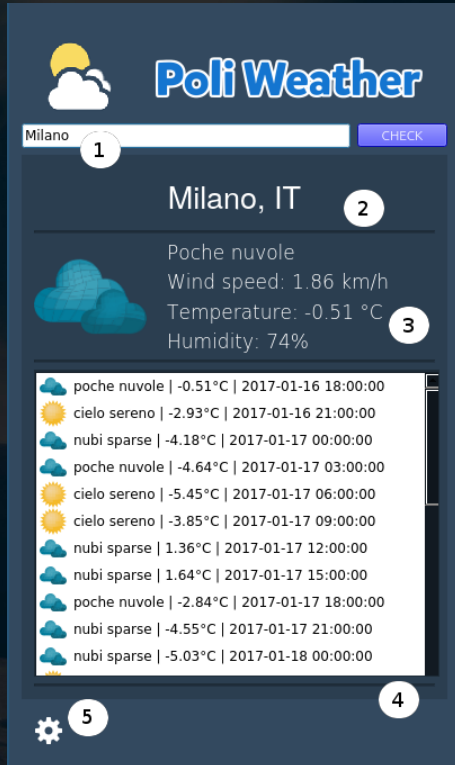
Graphical User Interface
made with QT



Client



Client



1. Input box
2. City name, nation
3. Description
4. Forecast every 3 hours
5. Filters for Celsius/Kelvin

MXE

Cross Compilation for Windows



Web Service

Realized in HTML, CSS, JavaScript



The background of the slide is a dark, atmospheric landscape. It features several snow-covered evergreen trees in the foreground and middle ground. The ground is covered in a layer of snow, and the sky is dark with a prominent, bright sunburst or starburst effect in the upper left quadrant. The overall mood is serene and wintry.

Physical Setup

Physical Setup

Domain registered
poliweather.tk



Using Cloudflare CDN



DDclient

Perl script used to update dynamic
DNS entries for accounts on
Dynamic DNS Network Service Provider.



A dark, atmospheric winter landscape. In the foreground, a snow-covered slope leads up to a cluster of trees heavily laden with snow. The trees are dark against the lighter sky. In the upper left, a bright sunburst or starburst effect is visible against a dark, cloudy sky. The overall mood is cold and serene.

Demo

The background of the slide is a dark, atmospheric photograph of a winter landscape. In the foreground, there are snow-covered trees and a path leading into the distance. The sky is dark with a bright sunburst effect in the upper left corner. The overall mood is somber and mysterious.

Encountered Problems

OpenWeather Data Structure

```

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OpenWeather Data Structure

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Poli Weather Data Structure

[illegible][illegible]

The background image is a dark, atmospheric winter scene. It features several trees heavily laden with snow, their branches creating a complex, white web against the dark sky. The ground is also covered in a thick layer of snow, with some subtle tracks or indentations visible. In the upper left corner, a bright sunburst or starburst effect emanates from behind a dark, silhouetted shape, possibly a hill or a large tree, casting long, soft rays across the sky. The overall color palette is dominated by deep blues, blacks, and whites, creating a serene and cold mood.

Thanks for your attention