**Demonstration**

**Weather prediction application**

1. **What is our app?**

In short, our application uses live data feed from a Raspberry Pi home weather station and make short weather predictions, based on that information.

1. **How does it work exactly?**

The application collects 3 main data types from the sensors built into the Raspberry Pi. It uses air humidity, air temperature and air pressure. They are collected live and they’re fed through a custom API into our database and our back-end algorithm to do the prediction.

The algorithm itself is Zabretti’s algorithm for weather prediction. It uses these 3 types of data to make reliable short term weather predictions. It’s an old one and it’s been tried and tested for many years and it’s proven to work really well with very high accuracy.

1. **Where is the data stored?**

The data is stored on an SD card to be kept to the user, owning the Raspberry Pi weather station.

1. **How is the data displayed?**

The data is displayed on a locally hosted (for each user with a home weather station) website. It is then filtered and edited into graphs, showing tendencies. The main GUI also tracks the status of the weather station (is it connected, the live data readings, etc…)

1. **Why are there no log ins to the website?**

The entire app and its database are hosted locally to the user. It is not hosted on the Internet, thus it has no need for log in, since it’s going to be used locally by individual users and there would be no clashes.

**LINK TO THE SHORT VIDEO DEMONSTRATION:**

**/fill in/**

**LINK TO THE USER MANUAL (README)**

It goes along with the application and it’s a GitHub README

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