

# About

WeatherIO is a weather app for Android, Windows and Web. It is built on .NET MAUI and Blazor.

## Features

- View current weather conditions for your location
- View hourly and daily weather forecast

## Contents

This project contains the source code for the following projects:

- [WeatherIO App](#) - .NET MAUI Blazor app for Android, Windows
- [WeatherIO Common](#) - Razor Class Library with common code for all projects
- [WeatherIO Server](#) - ASP.NET Core Web API for server side logic
- [WeatherIO Web](#) - ASP.NET Core Blazor WebAssembly app for Web

# User Guide

This guide is intended to help users of WeatherIO app to get started with the app and to learn about its features.

# API Documentation

Here you can find the documentation for the WeatherIO API. The API is built using ASP.NET Core Web API and dockerized using Docker.

# Deployment guide for administrators

Prerequisites:

- docker

To begin with you need to have docker installed on the machine. A guide on docker installation can be found at: <https://docs.docker.com/engine/install/>. Next you need to clone the repository with command:

```
git clone https://github.com/pcz-io/weather-io.git
```

This will download repository with application code.

## Running server

The easiest way to start server is to run `run-compose.sh` script located in `WeatherIO/` folder. So to do that change working directory to `WeatherIO` and run script by typing commands:

```
cd WeatherIO
./run-compose.sh --detach
```

It is necessary to add `--detach` argument to run docker compose in detached mode, otherwise it would not run in background.

## Help message

To show a script help message you can run:

```
./run-compose.sh --help
```

## Updating application

To update the application you need to pull new version from the remote repository and run `run-compose.sh` with additional `--update` argument.

```
git pull
./run-compose.sh --update --detach
```

By adding `--update`, script will stop application containers, delete them (database will be preserved), remove old images, build new version and start all necessary containers.

# Technical Documentation

This document contains all the technical documentation for the WeatherIO project. It is divided into sections based on project namespacing.