

Yoyo Python Engineering Test

As part of the Yoyo interview process we ask you to complete a small coding challenge to help us better understand your skills. We estimate this should take no longer than half a day but there is no limit.

User Story:

As an API user I want to get the minimum, maximum, average and median temperature for a given city and period of time.

Requirements:

- Create a Django application with RESTful API
- Django application must run locally
- API must be in the format `/api/locations/{city}/?days={number_of_days}`
- API must fetch weather data from some public API of your choice
- API must compute min, max, average, and median temperature
- Response format must be in the following structure:

```
{
  "maximum": value,
  "minimum": value,
  "average": value,
  "median": value,
}
```

Please publish your project via Github and send us a link to your repository.

Marking Criteria:

Category	Description
Functionality	All specified requirements are adequately met
Architecture	How well the application is designed and code is structured
Readability	Simplicity, comments, style, documentation etc.
Tests	Various test cases and coverage

Tips:

- `django-rest-framework` is recommended although not required
- <https://www.weatherapi.com/> provides a free tier for querying weather forecasts
- Consider and observe best practices regarding implementation of public facing APIs (i.e. input validation, error handling, etc.)
- Keep your Github repo clean and easy to navigate code changes. Ensure to provide a well structured `readme.md`