Globant Piscine

Project 1

Summary: PokeAPI

Version: 1

Contents

Chapter I

A word about this Project

Web development is an interesting career path because of the challenges and the plethora of options available to solve those problems. In this specific case, we'll focus on two of the most common libraries and frameworks to approach web development and then tackle a specific problem using AI generated images through an API.

This project is influenced by our previous experience with these types of academys where we used PokeAPI to create new applications on top of that API. The current document describes a new twist on that idea and allows us to explore new tools like AI generated images and content and include them in real-world applications.

Chapter II

Introduction

What this Project will show you:

- Usage of a WebFramework to build a Website.
- Communication with a remote REST API.
- Managing Front-End challenges like Accessibility or SPA.
- Using AI generated images in a real-world application.
- Using Oauth2 as an authentication method.
- Managing some basic security concerns.

Chapter III

General instructions

Unless explicitely specified, the following rules will apply for every project of this Piscine.

- This subject is the one and only trustable source. Don't trust any rumor.
- This subject can be updated up to one hour before the turn-in deadline.
- The assignments in a subject must be done in the given order. Later assignments won't be rated unless all the previous ones are perfectly executed.
- Be careful about the access rights of your files and folders.
- Your assignments WON'T be evaluated by your Piscine peers.
- You must not leave in your turn-in your workspace any file other than the ones explicitly requested By the assignments. If the assignment don't precise them, put only the necessary ones to run your Project.
- Using some API Key or Token? Keep them for you! Do not push them on your repository.
- You have a question? Ask your left neighbor. Otherwise, try your luck with your right neighbor.
- Every technical answer you might need is available in the `man` or on the Internet.
- You must read the examples thoroughly. They can reveal requirements that are not obvious in the assignment's description.
- By Thor, by Odin! Use your brain!!!

Chapter IV

Mandatory part

Globant	Exercise 00
PokeAPI	
Turn-in directory : $ex00/$	
Files to turn in : `All needed files to run your Project and nothing else`	
Allowed functions : `None`	

- Using our project web application, users will be able to create new Pokemons from a list of available options to combine and share the results with their friends.
- Application should be developed using a mobile-first approach, supporting mobile users since the start of development.
- The application will be a Single-Page Application (SPA). Users should be able to use back and forward buttons in the browser.
- Users will be able to create new Pokemons by selecting from a list of potential animal combinations and abilities.
- Users will be able to share the results as images generated by the application.
- Accessibility is very important for us. Your application should aim to support WCAG 2.1 AA level as much as possible. We will not enforce AA strict compliance but it's important to have an understanding of the subject and some experience with it's implementation at the end of the project.
- Image generation using some 3rd party REST API.
- Use some good basic security measures, API keys, JWT tokens, etc.
- A docker-compose file will be used to run your application.
- User authentication will be done using Oauth2.

You may want to take a look at every technologies referenced in the project description before starting.

This is a group project, remember to communicate with your team members and split the work together. Git Branch are your friends. Use them to split the work and merge it together.

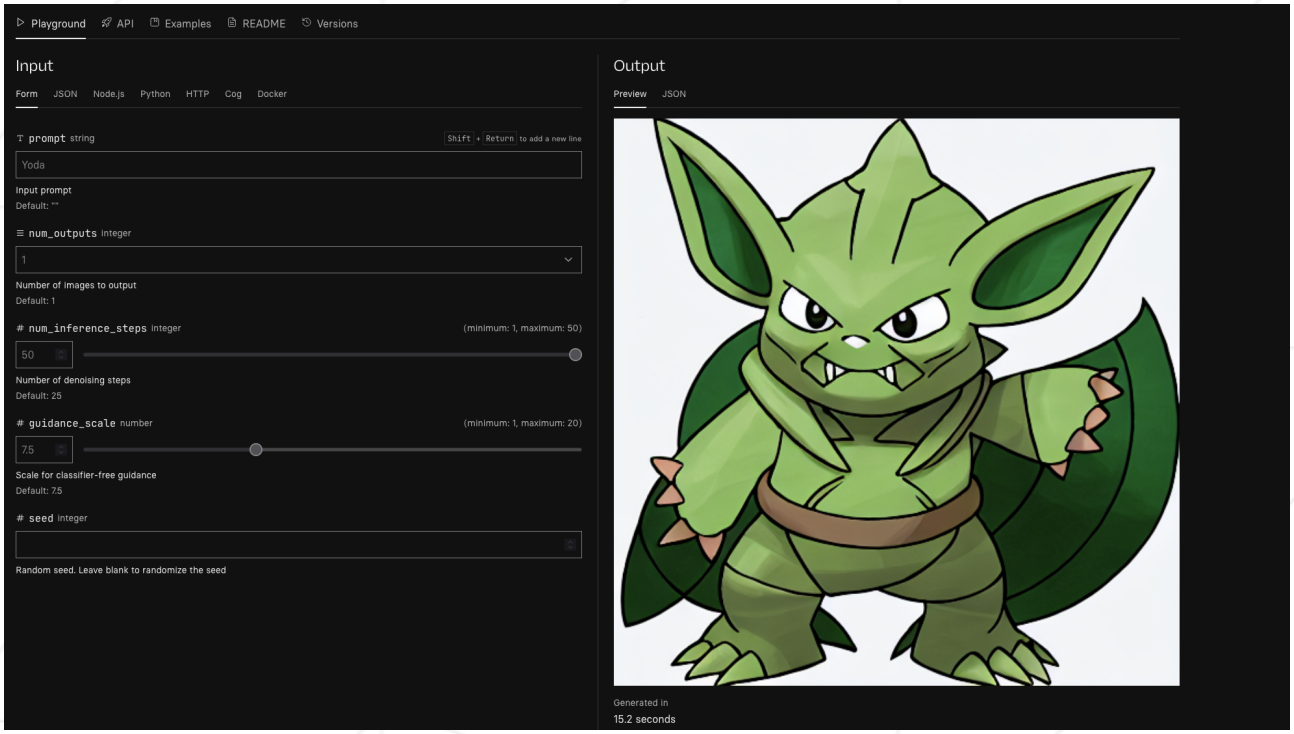

Figure IV.1: Example from to lambdal/text-to-pokemon – Run with an API on Replicate

Chapter V

Bonus Part

Once mandatory requirements are implemented in the application, you can add any additional features you see fit. Here a quick list of suggestions to give you ideas.

- Share can also include a URL to redirect your friends to your application or send by email for example. If you choose to implement these, some kind of unique identifier should be generated to avoid potential conflicts with the shared results.
- When creating new Pokemons, free text input could be supported.
- Image input could be added as well, providing another way to input the required information to generate new Pokemon.
- I18n support for internationalization and multiple languages.
- If you are super deep on AI learning, you could also train your own model and make it work with this project's frontend.

Those are only examples. The sky's the limit so again, once mandatory functional requirements are met, we are open to any additional functionalities you see fit.

Chapter VI

Submission

- Create a git repo (Github, Gitlab, Bitbucket, etc) and add your project files to it.
- Copy the link to your repository and paste it in the project submission form.
- Project submission form: PLACEHOLDER

Please note, no modifications made on the repo after the form is sent will be taken into account for the evaluation.

No Peer evaluation for this Piscine, but feel free to share your project with your peers and get feedback.