

Text tone analyzer

Description

This project is designed to analyze the emotional tone of the input text and visualize it. It integrates **IBM Watson Natural Language Understanding API** for emotion analysis and allows users to upload text files or input text manually.

Outline

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Prerequisites

Make sure you have the following installed on your machine:

- [Node.js](#) (v14 or later)
- [npm](#) (comes with Node.js)

Installation

Follow these steps to run the project locally:

- Clone the Repository

```
git clone https://github.com/freedfall/Text-tone-analysis.git
cd Text-tone-analysis
```

- Install Dependencies

In the project directory, run the following command to install the necessary packages:

```
npm install
```

- IBM Watson Setup

To use IBM Watson Natural Language Understanding for emotion analysis, you need to set up your API key.

Steps to Get Your IBM Watson API Key:

1. Go to the [IBM Cloud](#) and create an account if you don't already have one.
2. Once logged in, navigate to the **Watson Natural Language Understanding** service page.

3. Click **Create** to set up a new service.
4. After the service is created, navigate to the **Manage** tab.
5. Copy your **API Key** and **Service URL**.

- Add API Key to **.env** File

1. In the root of your project directory, create a **.env** file (if it doesn't already exist).

```
touch .env
```

2. Add your IBM Watson API key and URL to this file:

```
REACT_APP_IBM_API_KEY=your-ibm-watson-api-key  
REACT_APP_IBM_URL=your-ibm-service-url
```

Replace **your-ibm-watson-api-key** and **your-ibm-service-url** with the values you obtained from the IBM Cloud.

- Start the Development Server

To start the project locally, use:

```
npm start
```

This will open the project in your browser at **localhost:3000**.

Usage

1. Open the project in your browser.
2. Import a text file using the file upload input or manually type/paste text for analysis and click **Check** button to view the result.