Back-end Application (FastAPI) Installation Instructions

Step 1. Install Anaconda

If you haven't installed Anaconda yet, download and install it from the respective website:

- Anaconda Distribution

Anaconda installation instructions can be found at the following page:
https://docs.anaconda.com/free/anaconda/install/linux/

Step 2. Open a Terminal or Anaconda Prompt

- On **Windows**, you can use the "Anaconda Prompt" from the Start menu.
- On **macOS** or **Linux**, open your preferred terminal application.

Step 3. Create a New Conda Environment

To create a new environment, use the `conda create` command followed by `--name` and the name you want to give your environment. You can also specify the Python version you want to use.

```
conda create --name myenv python=3.11.5
```

Replace `myenv` with the name you want to give your environment and `3.11.5` with the desired Python version.

Step 4. Activate the Conda Environment

After creating the environment, you need to activate it. Use the following command:

```
conda activate myenv
```

Replace `myenv` with the name of your environment.

Step 5. Install Dependencies

 # Install dependencies from "requirements.txt" available in salsa root directory

pip install -r requirements.txt

OR

 # Run following commands manually in the terminal

pip install transformers

pip install torch torchtext torchvision torchaudio

pip install -U pip setuptools wheel

pip install -U spacy

python3 -m spacy download en_core_web_sm

python3 -m spacy download es_core_news_sm

pip install stanza

pip install pandas

pip install openpyxl

pip install nltk

python3 -m nltk.downloader popular

Step 6. Install FastAPI and an ASGI Server

FastAPI requires an ASGI server to run. `uvicorn` is a commonly used ASGI server for FastAPI.

```
# Install FastAPI and uvicorn
pip install fastapi uvicorn
```

Step 7. Navigate to SALSA Project Directory

Navigate to salsa project directory with following command.
cd salsa

Step 8. Run Application Back-end

Use `uvicorn` to run your FastAPI application:

```
uvicorn main:app --reload
```

You should see output indicating that the server is running and you can open your browser and navigate to `http://127.0.0.1:8000` to see your FastAPI application in action.

Step 9 (Optional). Change Application Configurations

Navigate to salsa project directory with following command.

cd salsa

Locate the file "config.env" and change value of configurable options from default to available options. After saving updates in "config.env" file, reload the application with updated configurations using following command:

```
uvicorn main:app --reload
```

You should see output indicating that the server is running and you can open your browser and navigate to `http://127.0.0.1:8000` to see your FastAPI application in action.

Front-end Application (Vue.js 3) Installation Instructions

Step 1: Install Node.js and npm

Ensure you have Node.js and npm installed on your system.

To check if they are installed, you can run:

```
node -v
npm -v

If not installed, please consult official node installation guide.
https://nodejs.org/en/learn/getting-started/how-to-install-nodejs
```

Step 2: Install Vue CLI

Vue CLI is a command-line tool to quickly scaffold out a Vue.js project.

```
npm install -g @vue/cli
```

Step 3: Navigate to Front-end Directory

Once your project is created, navigate into the project directory:

```
cd salsa/Frontend

npm install
```

Step 4: Run the Front-end Application (Vue.js)

Start the development server:

```
npm run serve
```

This will start a development server, and you can view your Vue.js application by navigating to `http://localhost:5173` in your web browser.

Step 5 (Optional): Pagination Configuration

Navigate into the front-end directory

```
cd salsa/Frontend

Locate "config.json" file. Default value for items per page is 10 which can be
updated with the desired number.
```

Start the development server again to take effect the change on pagination.

```
npm run serve
```

This will start a development server, and you can view your Vue.js application by navigating to `http://localhost:5173` in your web browser.