



README .md

Sentence Parsing Tools

This project contains two applications designed for parsing sentences using different NLP techniques:

1. **Sentence Parsing Tool (Using Stanford CoreNLP):** A tool that leverages Stanford CoreNLP to perform sentence parsing.
2. **Sentence Parsing Program with Mind Map:** A tool that visualizes parsed sentences as a mind map.

Project Structure

```
.
├── UsingComposite
│   └── index.html          # Main file for the Sentence Parsing Program with Mind Map
├── UsingStandfordCoreNLP
│   ├── app.js              # Main Node.js application file for Stanford CoreNLP tool
│   ├── package.json        # Dependencies and project metadata
│   ├── package-lock.json   # Exact dependency tree for project
│   ├── public              # Static files directory
│   │   └── index.html      # Frontend form to submit sentences
│   ├── result.ejs          # View template for parsed sentence results
│   └── views               # Additional views for the Stanford CoreNLP tool
└── README.md              # This file
```

URLs

- Sentence Parsing Tool (Using Stanford CoreNLP): <https://doosan.pagooah.com/usingstandford/>
- Sentence Parsing Program with Mind Map: <https://doosan.pagooah.com/usingcomposite/>

Tools and Libraries

1. Using Stanford CoreNLP

This tool uses the Stanford CoreNLP server to parse sentences and display their structure. It utilizes:

- **Express.js**: For creating the backend server.
- **Axios**: For making HTTP requests to the Stanford CoreNLP server.
- **EJS**: As a templating engine to display results dynamically.

2. Using Composite (Mind Map)

This is a static HTML page that visualizes parsed sentences in the form of a mind map. It uses:

- **HTML & Bootstrap**: For UI design and layout.
- **JavaScript**: For basic frontend interactivity.

How to Run the Project Locally

1. Setup for Stanford CoreNLP Tool

- Ensure you have Node.js installed on your machine.
- Clone the repository or download the project files.
- Navigate to the `UsingStandfordCoreNLP` directory and install dependencies:

```
cd UsingStandfordCoreNLP
npm install
```

- Start the server:

```
node app.js
```

- Access the application at `http://localhost:3000`.

2. Setup for Composite (Mind Map) Tool

This is a simple HTML file located in `UsingComposite/index.html`. You can open it directly in your browser or serve it using any HTTP server (e.g., Nginx or Apache).

Configuration for Nginx

The project is hosted using Nginx as a reverse proxy. Below is the relevant Nginx configuration for proxying the Stanford CoreNLP tool and serving the static HTML files:

```
server {  
    listen 80;  
    server_name doosan.pagooah.com;  
  
    # Proxy for Stanford CoreNLP Tool  
    location /usingstandford {  
        proxy_pass http://localhost:3000/;  
        rewrite ^/usingstandford/(.*)$ /$1 break;  
        proxy_set_header Host $host;  
        proxy_set_header X-Real-IP $remote_addr;  
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;  
        proxy_set_header X-Forwarded-Proto $scheme;  
    }  
  
    # Serve static HTML for Mind Map Tool  
    location /usingcomposite {  
        root /var/www/parser;  
        index index.html;  
        try_files $uri $uri/ /index.html =404;  
    }  
}
```

License

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Contact

For any questions or inquiries, please contact the project maintainer at doosan.pagooah@gmail.com.