ClearViz

Visualization Website for ClearNLP

What is NLP?

Natural Language Processing

Features

- ➔ Dependency parsing
- ➔ Tokenization and segmentation
- ➔ Part-of-speech tagging
- ➔ Morphological analysis
- ➔ Semantic role labeling
- ➔ (Sentiment Analysis)

Goal

Main: Demonstrate ClearNLP's features and performance to potential users through a simplistic and easy to use interface.

Secondary: Offer a complete NLP processing API and website at a competitive price range.

Market

Researchers and academics in NLP field

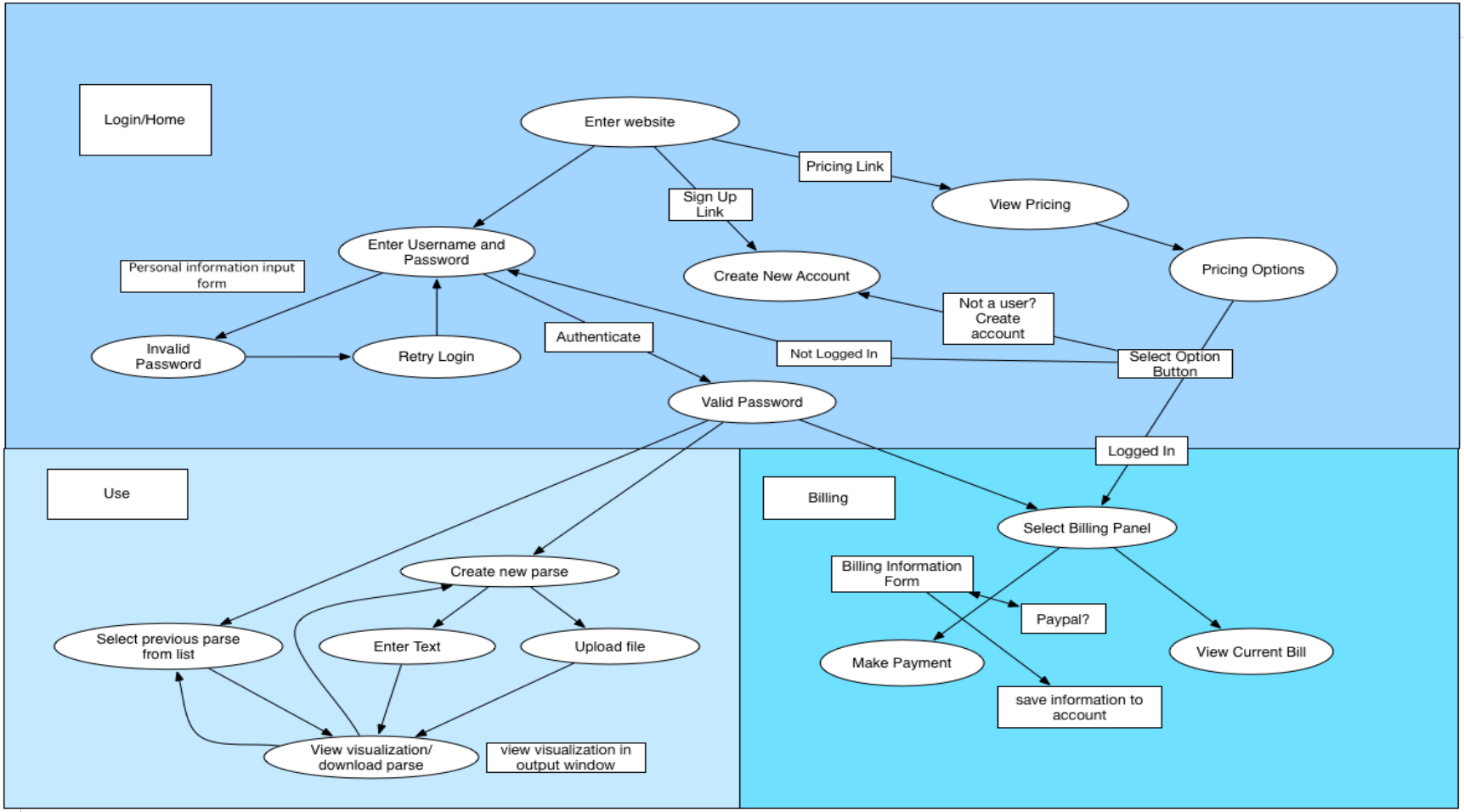
Companies in need for NLP tools without the technical expertise and/or processing power

The Natural Language Processing (NLP) market is estimated to grow from $ 3,787.3 million in 2013 to $9,858.4 million in 2018. This represents a Compounded Annual Growth Rate (CAGR) of 21.1% from 2013 to 2018.

- ReportsnReports.com

Competitors

- ➔ Commerical: AlchemyAPI NLP
- ➔ Non-Commerical:
- ➔ Illinois CloudNLP
- ➔ Stanford CoreNLP
- ➔ Other NLP APIs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Create new parse
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Paypal?
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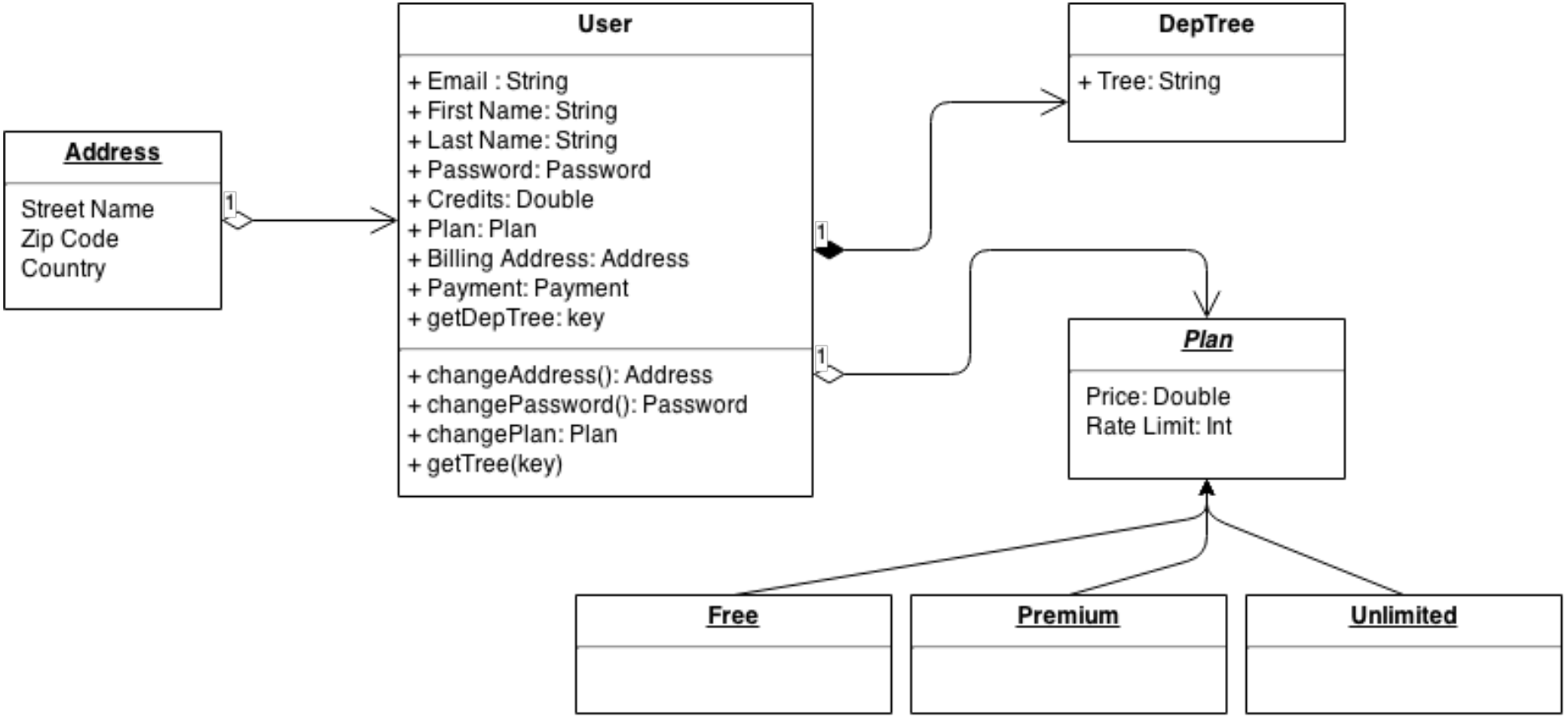
Make Payment
View Current Bill
save information to account
View visualization/ download parse
view visualization in output window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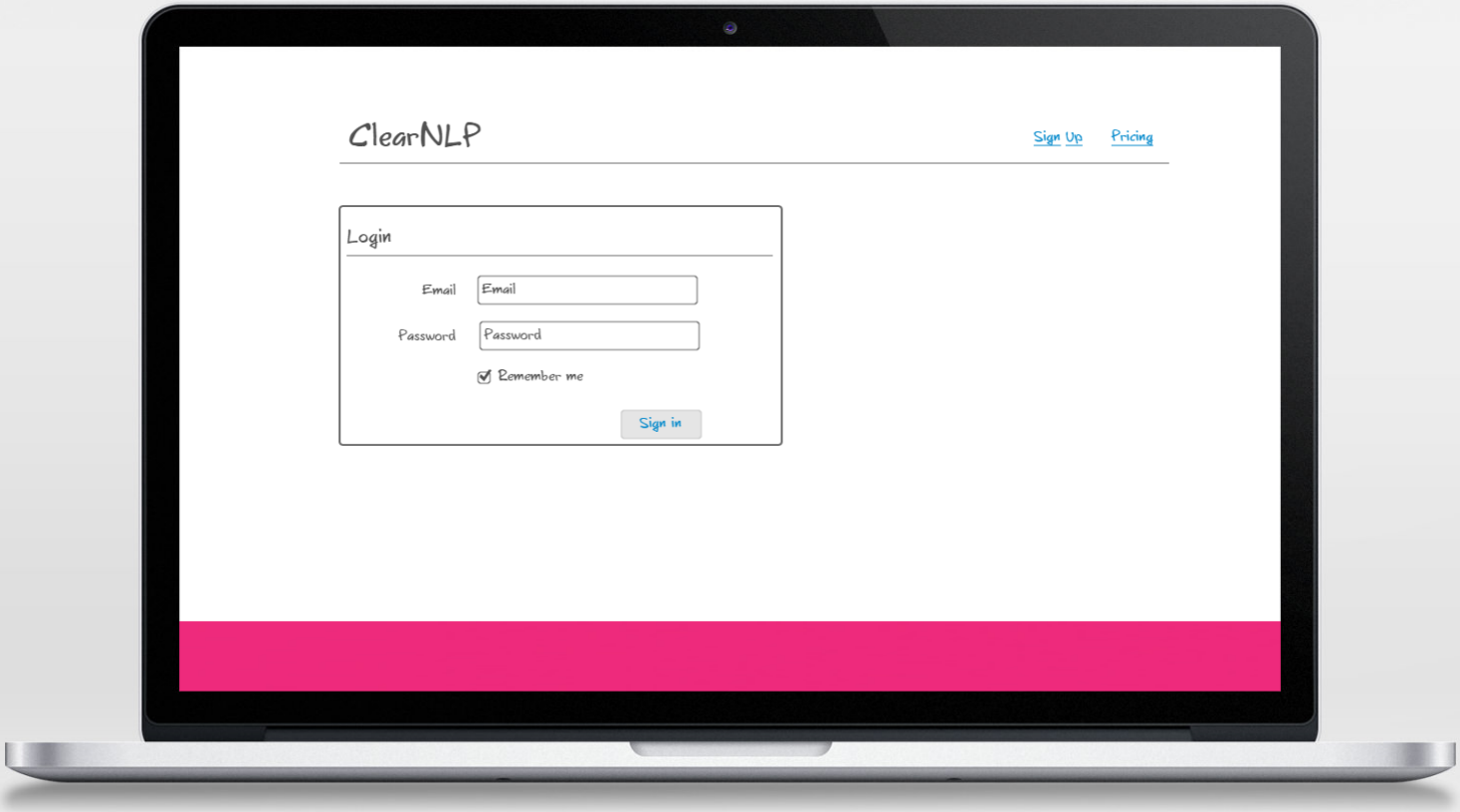
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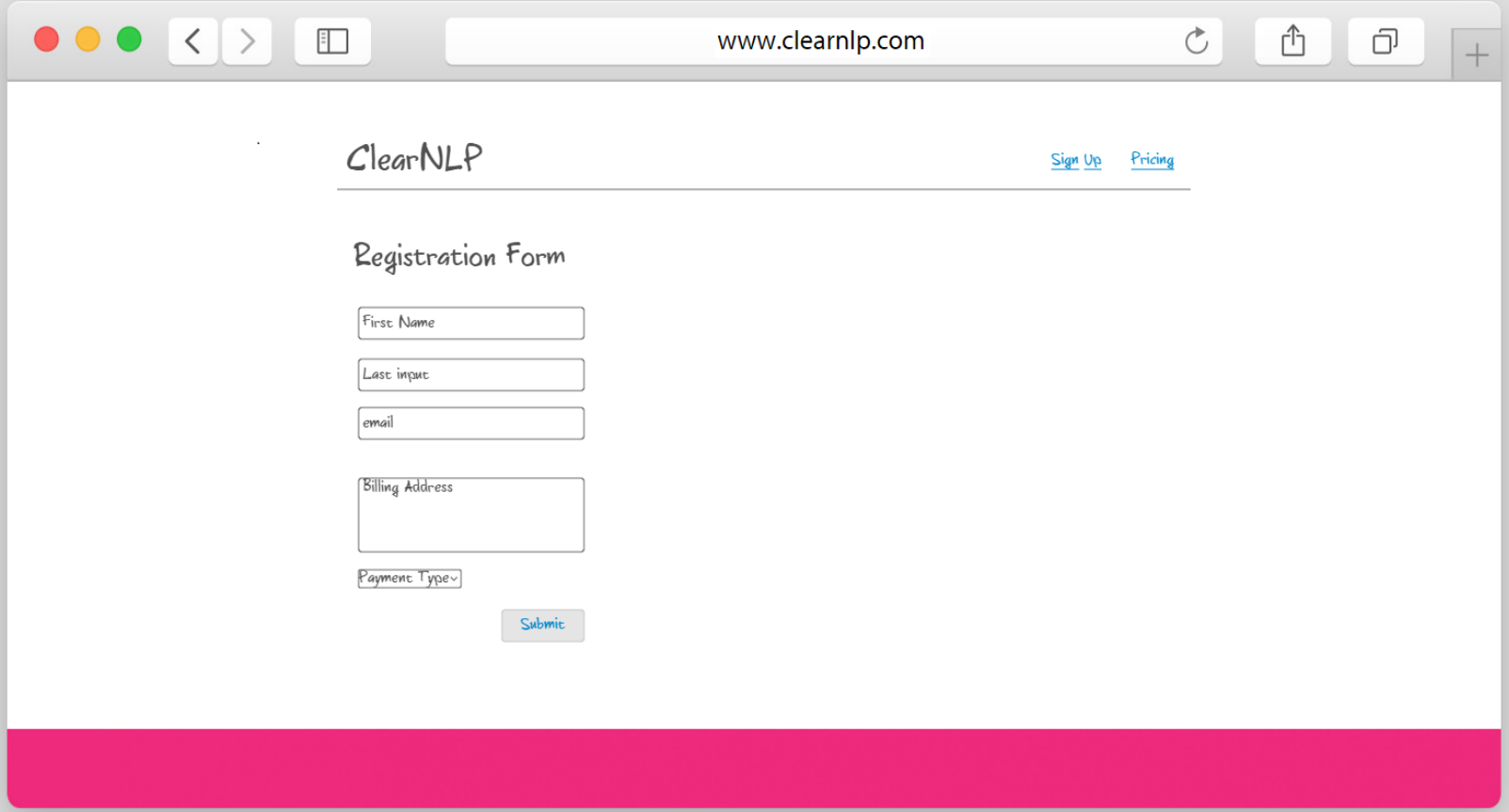
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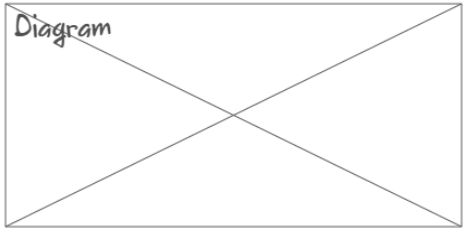

Text area

Submit

Frameworks/Processes

- ➔ MEAN Stack for visualization site
- ➔ Spark for RESTful API on Amazon EC2
- ➔ Apache Otlu for Oauth2
- ➔ (Possibly switch to Spring IO)
- ➔ Slack for communications
- ➔ Pivotal Tracker for project management

Team Skills

Everyone: Java + Javascript

Mike: Amazon Web Service (AWS)

Use Cases

Linguistics research

Large scale text processing

Feature extraction

- Healthcare
- Military
- Law

Responsibilities

Mike - Amazon AWS + Visualization + Spring.io

Deh Jun - Mean.js

Andrew - Mean.js

User Stories

User Story #001: Text analysis

As a business or researcher I want to extract dependency tree features so I can analyze texts based on these features rather merely words and word order.

User Stories

User Story #002: Question Answering

I want to be able to extract dependency tree features to recognize data more accurate and synthesize in more naturally sounding answers.

User Stories

User Story #003: Machine Translation

As a business, I would like to obtain accurate dependency tree features so I can create a more accurate model for machine translation software.

User Stories

User Story #004: Grammar check and suggestion

As a developer, I want to create dependency trees features to assess grammar and suggest grammar corrections.