```
+----+
| User Interface | <-- [HTML, CSS, JavaScript,
React.js]
| (User Sends Input) |
| Prompt Formatting Module | <-- [Python]
|-----|
| - Text for lossless conversion |
| - Text for abridged summarization |
| - Code for simplification |
+----+
| Prompt Optimization Engine |
|-----|
| - Lemmatized Text (Slow + Detailed) |
| - Aggressive Summary (Fast + Concise) |
| - Optimized Code |
```

```
| AI & NLP Integration
|-----|
| - spaCy (NLP Functionalities) |
 - Custom Algorithm
 - LangChain
| - OpenAl API
| Feedback Loop & Performance Tracking |
|-----|
 - Monitor Token Efficiency
 - Improve Response Quality
 - Continuous System Optimization
```