MICHIGAN STATE UNIVERSITY

Alpha Presentation Making STEM Papers Accessible to ASL Users

The Capstone Experience

Team Microsoft

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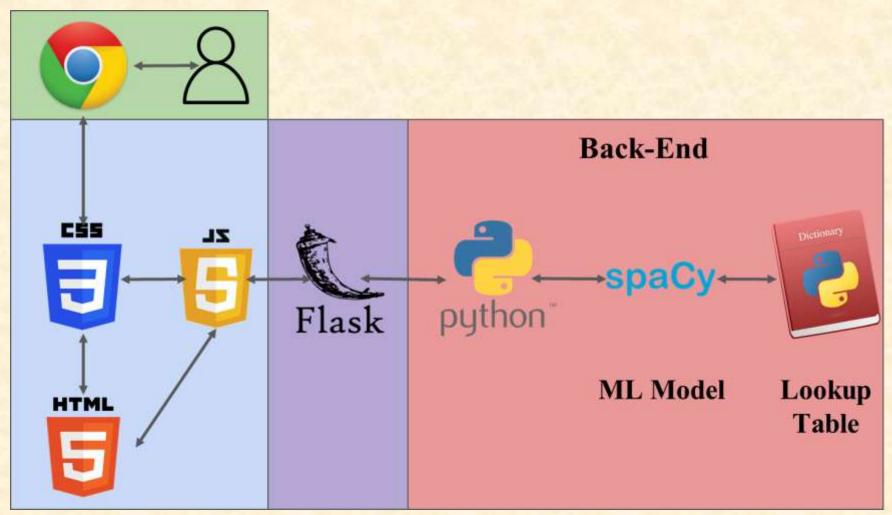
Department of Computer Science and Engineering
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Project Overview

- Enable ASL users to interpret STEM papers
- By making a translation reading tool
- Accessible as a Chrome extension

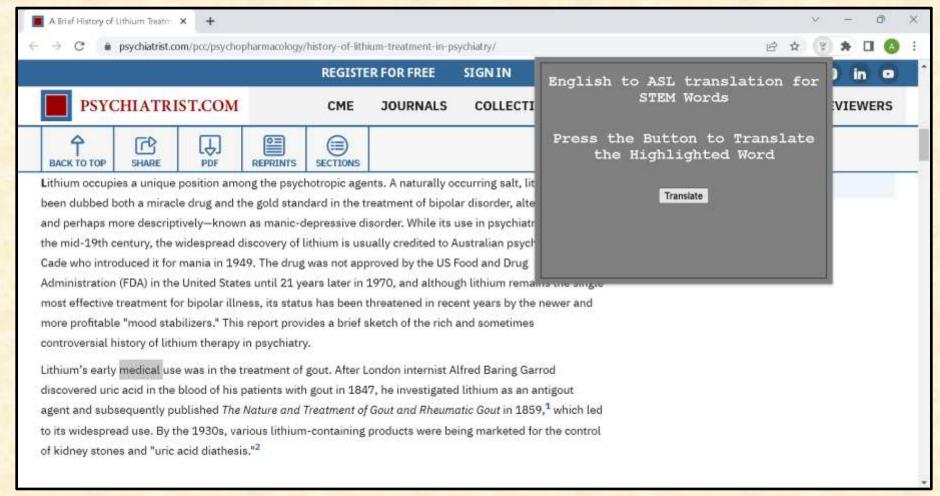
System Architecture



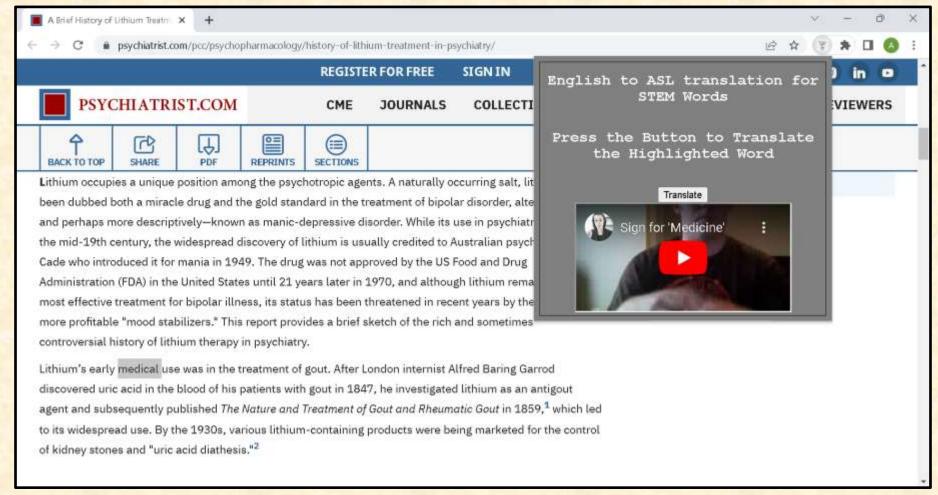


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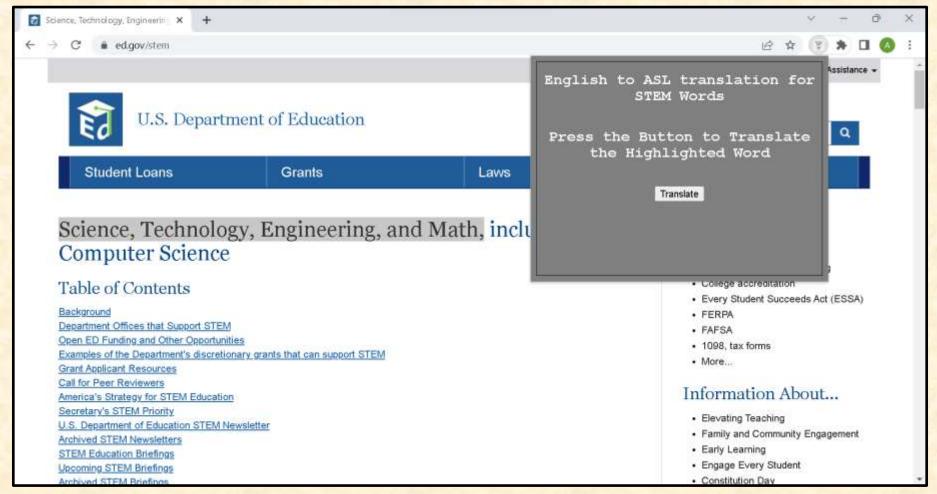
Input for a single word



Output for a single word

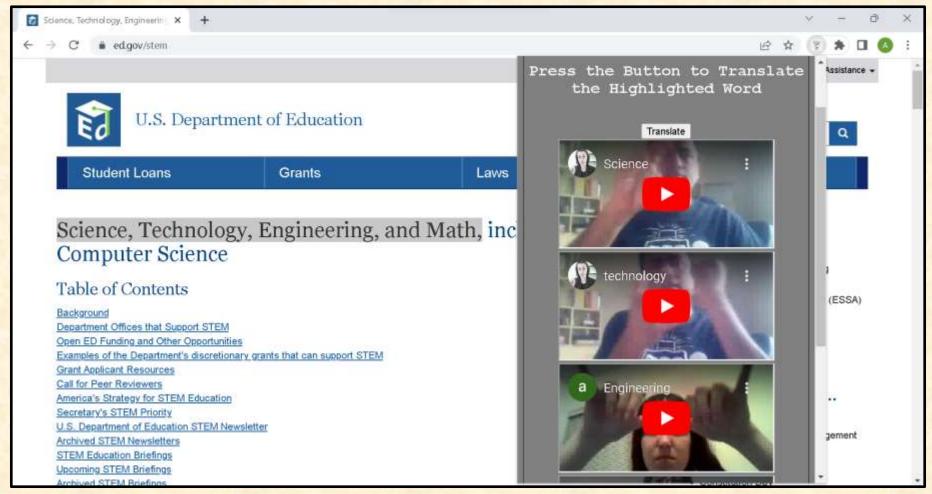


Input for several words





Output for several words





What's left to do?

- Stack models for increased accuracy
 - Other cross-lingual entity linking
 - BERT model
 - String difference
- List of similar words upon output
- Activate extension with right click
- Display YouTube search results to front-end
- PDF compatibility

Questions?

