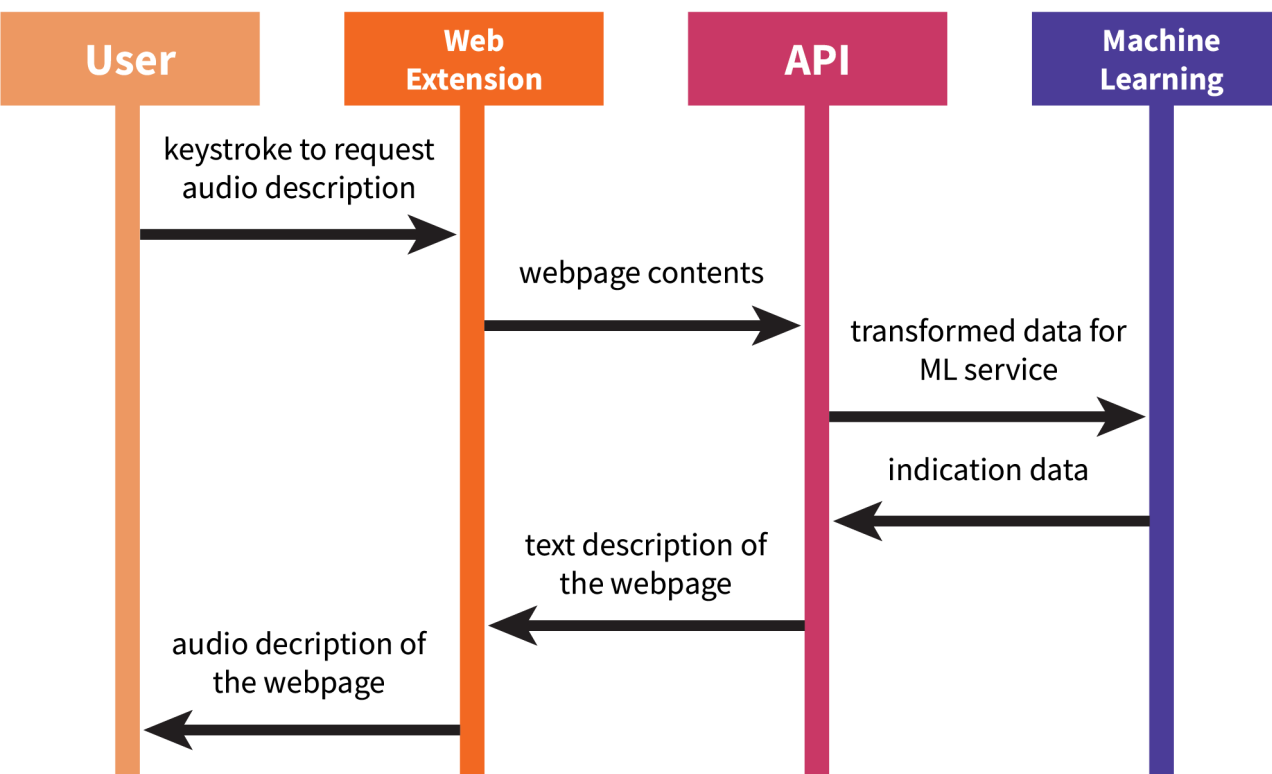


BetterRead, better heard

# BetterRead

BetterRead is an accessibility tool meant to improve the web browsing experience for those with visual impairments. It differs from normal screen reading software because it uses machine learning to identify important content of web pages and ignore the superfluous information that someone with visual impairments shouldn't worry about. BetterRead's purpose is to promote diverse internet usage through allowing vision-impaired users to navigate the web and give them experiences similar to able-bodied users.

## Design and Data Flow



## Challenges

- Learning new technologies
  - Serverless framework to create REST-API to communicate with AWS SageMaker
- Designing an interface for a web extension that is accessible to people with vision impairments
  - To overcome this challenge, we researched the design of existing software tools for vision impaired people
- Developing a machine learning model that can give useful results to the user
  - To overcome this challenge, we tested different models on small amounts of data and compared our results
- Obtaining good data to achieve a well-trained model
  - We gathered raw data and devised a method to transform our data in such a way that it would be useful and conducive to training

## Technologies



## Compatible With



Dr. Badri Vellambi



Isiah Lloyd



Madeline Eckhart



Sean Hearne



William Cupp