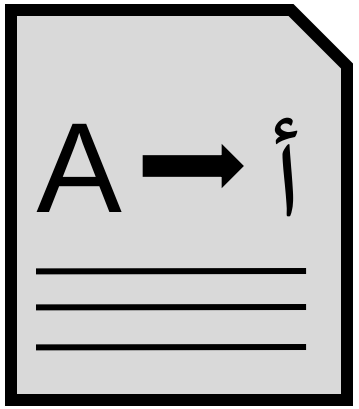


Note Translator

Design Phase

George Brown
Nitin Rachamalla
Robin Tellis
Uday Patlolla

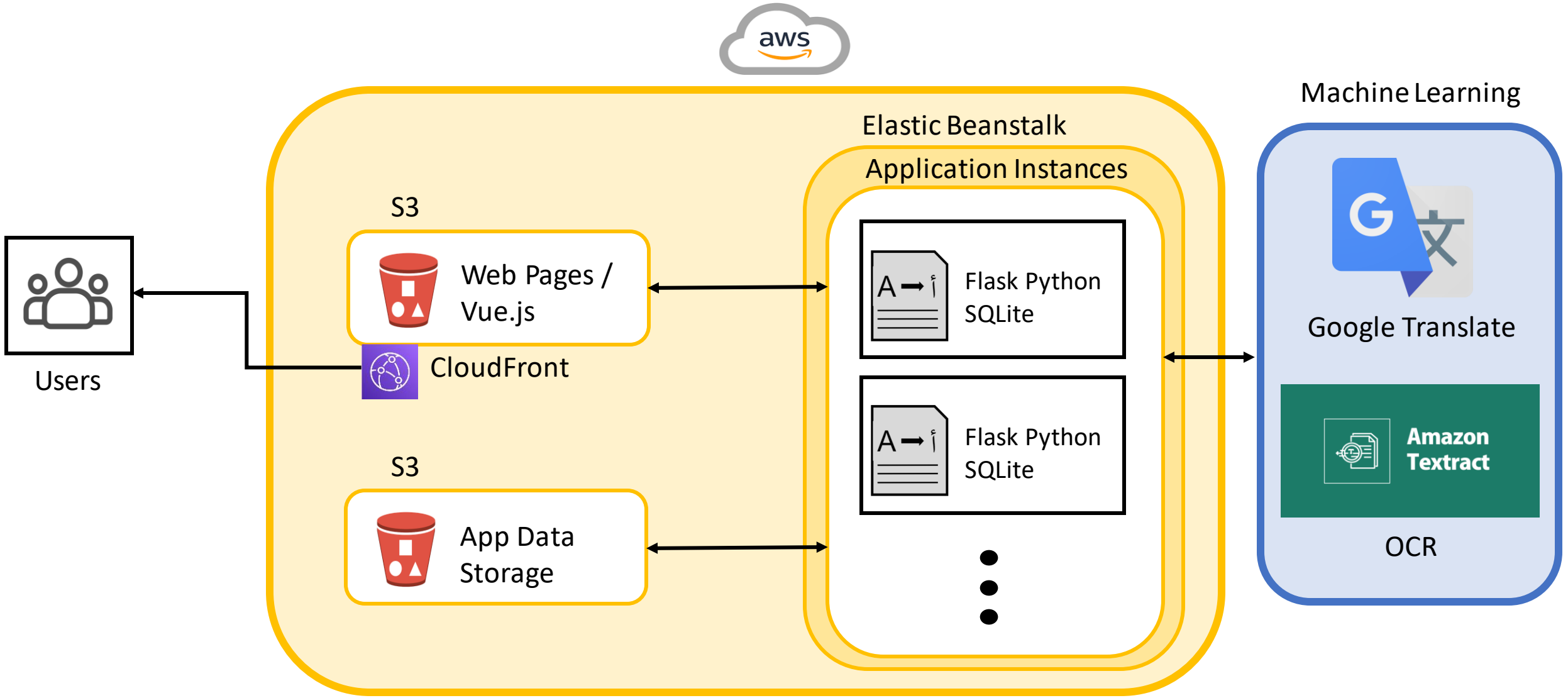
Key Features and Capabilities

- Target Market- Students and Researchers
- Note Sharing- Sharing of notes from user to user.
- Note Storage- Storage of notes in a text format.
- Implicit Translation- Ability to translate notes into receiver's preferred language.
  - Image files are converted to text using optical character recognition (OCR) and then translated.
- Explicit Translation- Ability to translate own notes into a specified language.

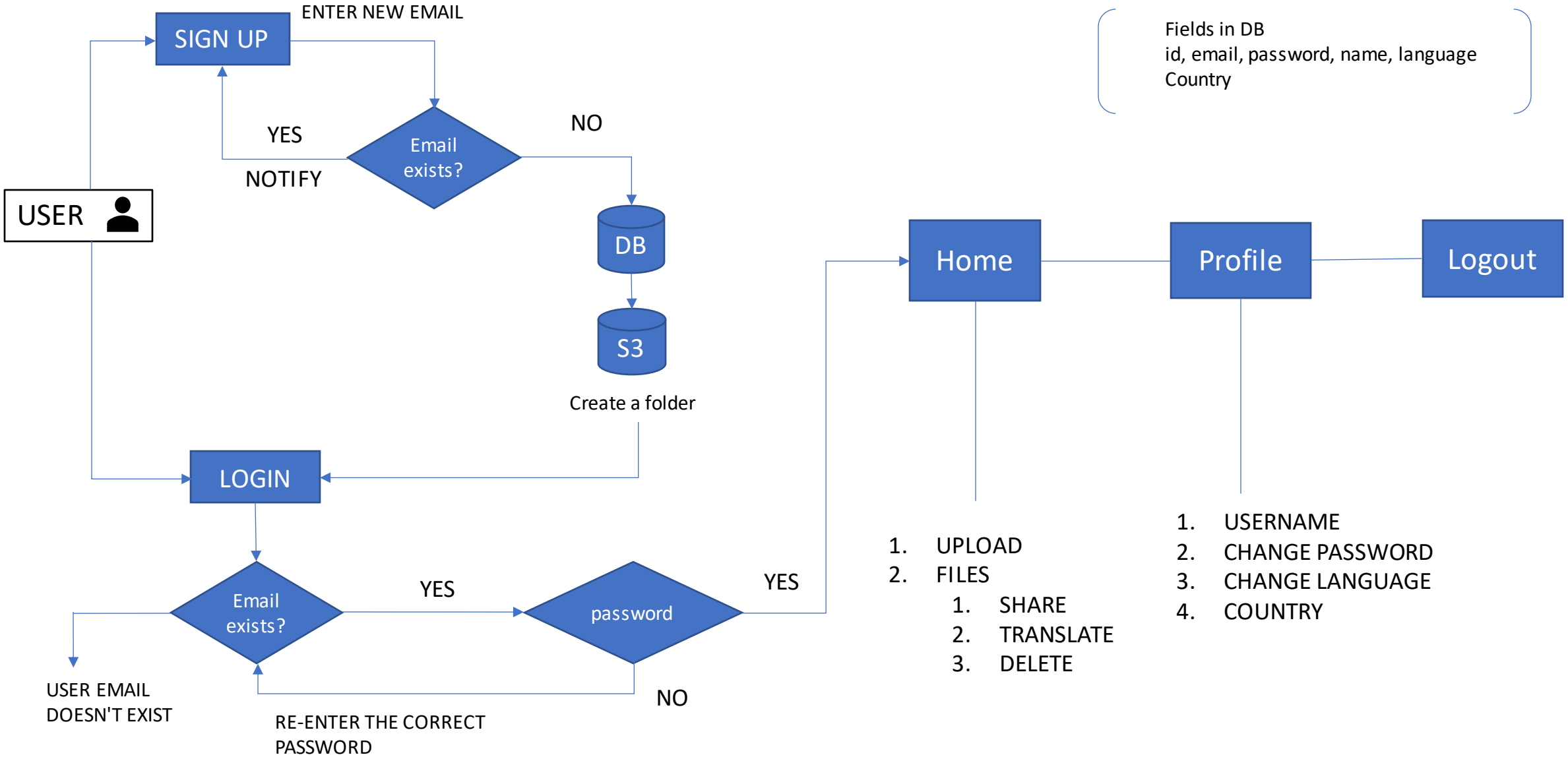
Justification

- Dedicated collaborative tool for translation and promotes Diversity, Equity, Inclusion (DEI).
- Bridging Language Barriers- Allows people who speak different languages to communicate with each other.
- Accessibility: Information is more accessible to people who do not speak the language in which it is written , enabling them to understand and engage.
- Convenience: Application is convenient to use because they can be used on-the-go, anywhere and anytime.

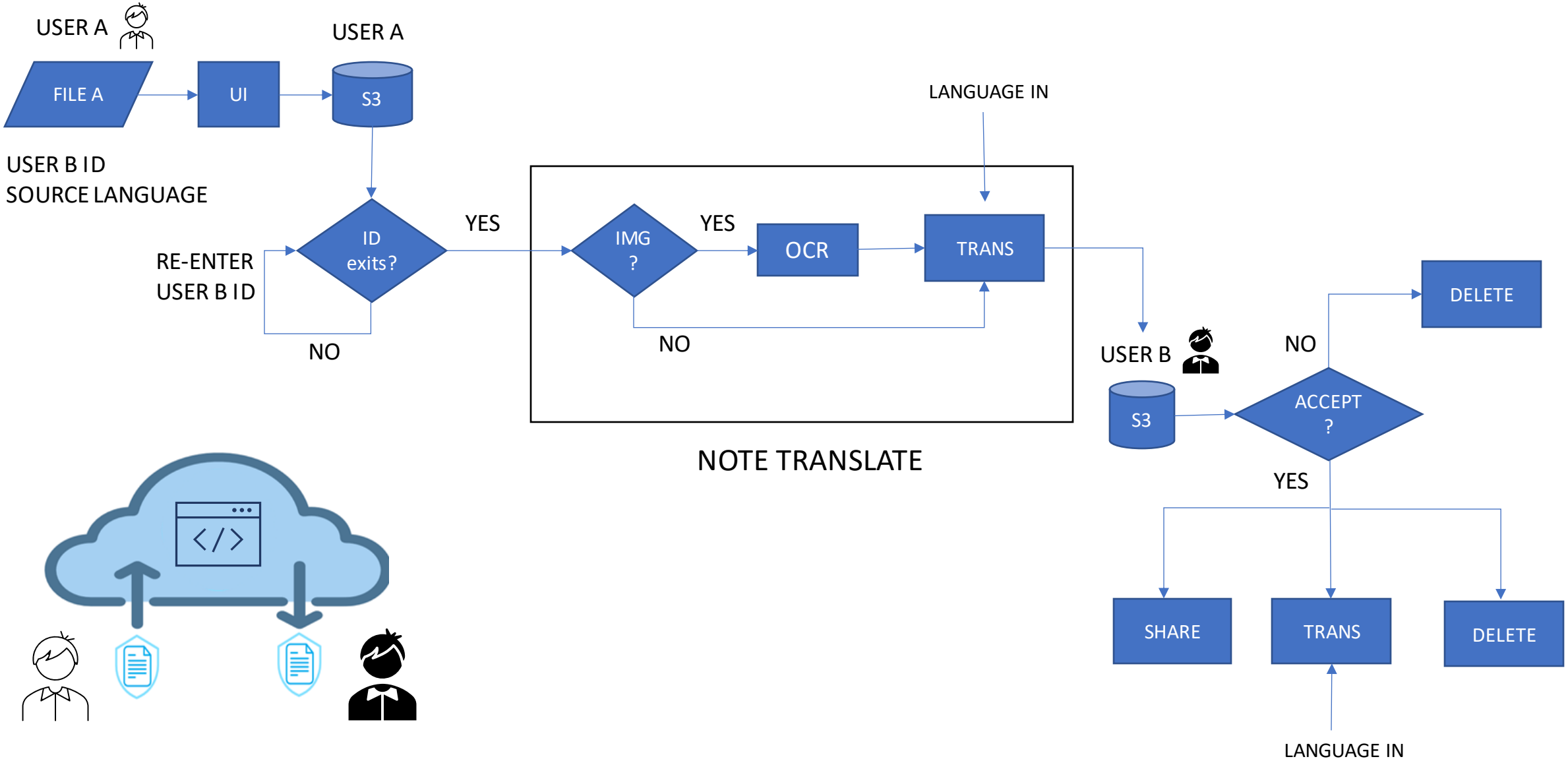
Cloud Architecture



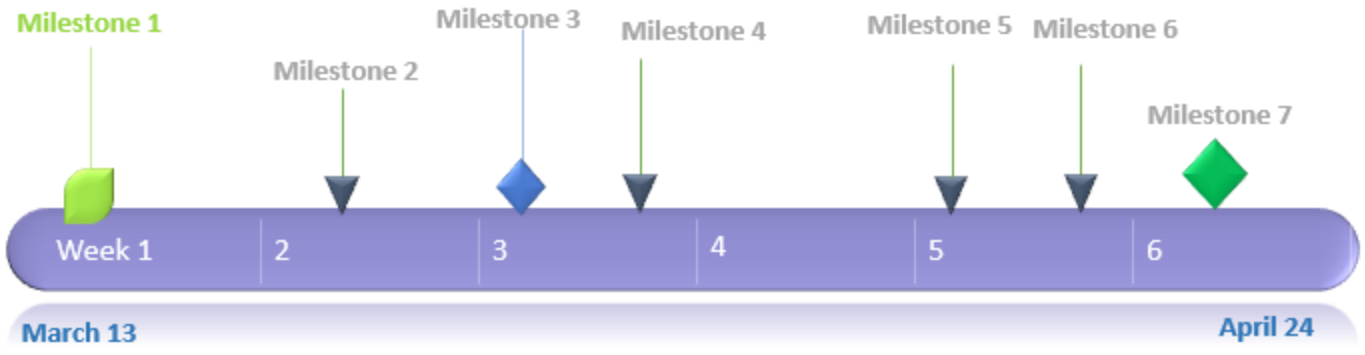
Application Workflow



Note Sharing Workflow



Period of March 13 – April 28



Milestone 1 - Test ML APIs outside of application.

Milestone 2 - Build sign up/login pages.

Milestone 3 - Build S3 endpoints. Classes or functions to store, retrieve and remove data from S3.

Milestone 4 - Build ML/OCR endpoints. Classes or functions to call ML/OCR models.

Milestone 5 - Implement UI controls and views to manage notes.

Milestone 6 - Notes storage (Upload source data, Share/translate notes to user, Copy/translate notes to self , preview and delete notes).

Milestone 7 - Deploy to AWS Elastic Beanstalk