

CCC-2022 T4A2 - Full Stack Application - Karl Alberto

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# Sindarin Translator Online

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## Description

*Sindarin Translator Online* aims to provide a web interface for the terminal application I created in Term 2 (2021) for the CCC course (T2A3). You can find more details about that project [here](#).

Documentation and Development updates are available via Trello [here](#), along with screenshots below.

## Main Functionality/Features

- English-to-Sindarin (Tolkien *Elvish*) translations
- Easy to use, responsive website
- Minimal design: text in, text out
- ~~About page (including contact form)~~ *Removed 23.02.2022*
- ~~Links to contact and portfolio items (namely, Github and LinkedIn)~~ *Removed 23.02.2022*

Updated 24.02.2022:

- Cache for most requested translations (to limit API calls)

## Future Improvements/Additional Features

- ~~Store and display last 10 and/or top 10 translations requested~~ *Removed 24.02.2022*
- More Middle Earth language options:
  - English-to-*Quenya*
  - English-to-*Orcish*
- Output text in *Tengwar* (Elvish) script

## Target Audience

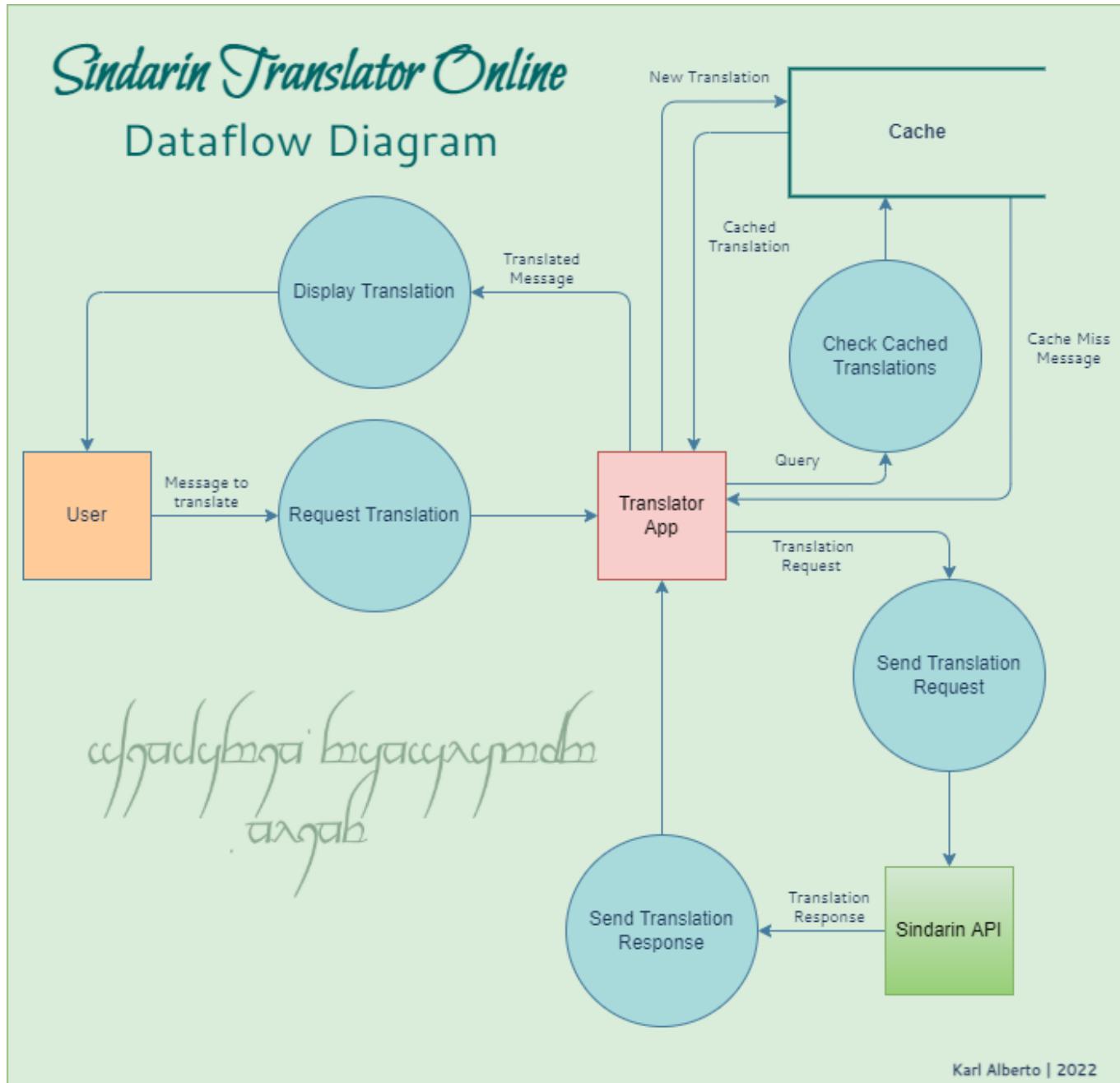
- Fans of J.R.R. Tolkien's written works, and the 'Middle Earth'/'Lord of the Rings' universe.

- Fans of the 'Lord of the Rings' and 'The Hobbit' movie franchises.
- Fans who are interested in the upcoming 'Rings of Power' *Amazon Prime Video* series.
- Fans of *Conlangs* (Constructed Languages) who want a phonetic representation of the *Elvish Sindarin* language.
- Linguists and linguistics students who want to study how Tolkien created his own languages.
- Fans of video games set in Middle Earth.

## Tech Stack

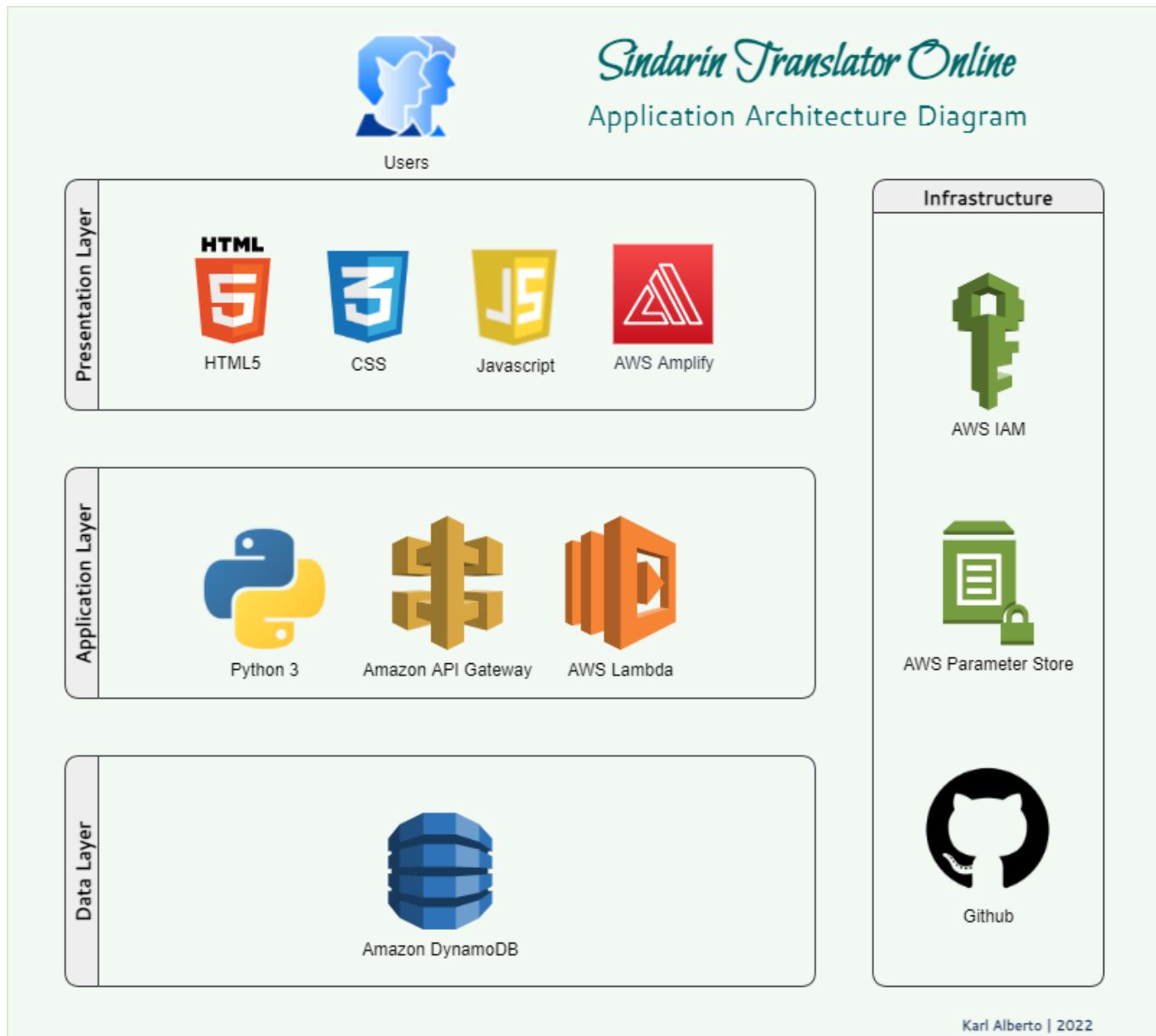
- HTML5
- CSS
- Javascript
- Python 3
- ~~Flask or Django web framework~~ *Removed 24.02.2022*
- Github
- AWS Identity and Access Manager
- AWS Amplify
- Amazon API Gateway
- ~~AWS EC2~~ *Removed 25.02.2022*
- AWS Lambda
- Amazon DynamoDB
- AWS Parameter Store

## Dataflow Diagram



PDF version available [here](#). Older version is available to view [here](#).

## Application Architecture Diagram



PDF version available [here](#).

## User Stories

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As a fan of J.R.R. Tolkien's written works, I want to be able to immerse myself in the Elven lore through their language.

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As a fan of the Lord of the Rings series of books, I want to speak the same language as Lord Elrond!

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As a linguist studying 'Constructed Languages', I want to study the syntax Tolkien developed for his books.

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As an Elven LARPer, I really want to up my spellcasting game by using Sindarin!

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As an older fan of Tolkien's books, I want to be able to use Elven words conveniently on my phone.

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As a DM (Dungeon Master), I want to regale my players with Sindarin speech during one of our DND One-Shots.

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As a language student, I want a source to study popular ConLangs while I commute.

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As someone who only reads Tolkien-related fiction, I want to have a dedicated app for his Elven languages, and not sort through other universes (like Star Trek)

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As a gamer who loves the Shadow of Mordor/War series of games, I want to understand some of the words they use!

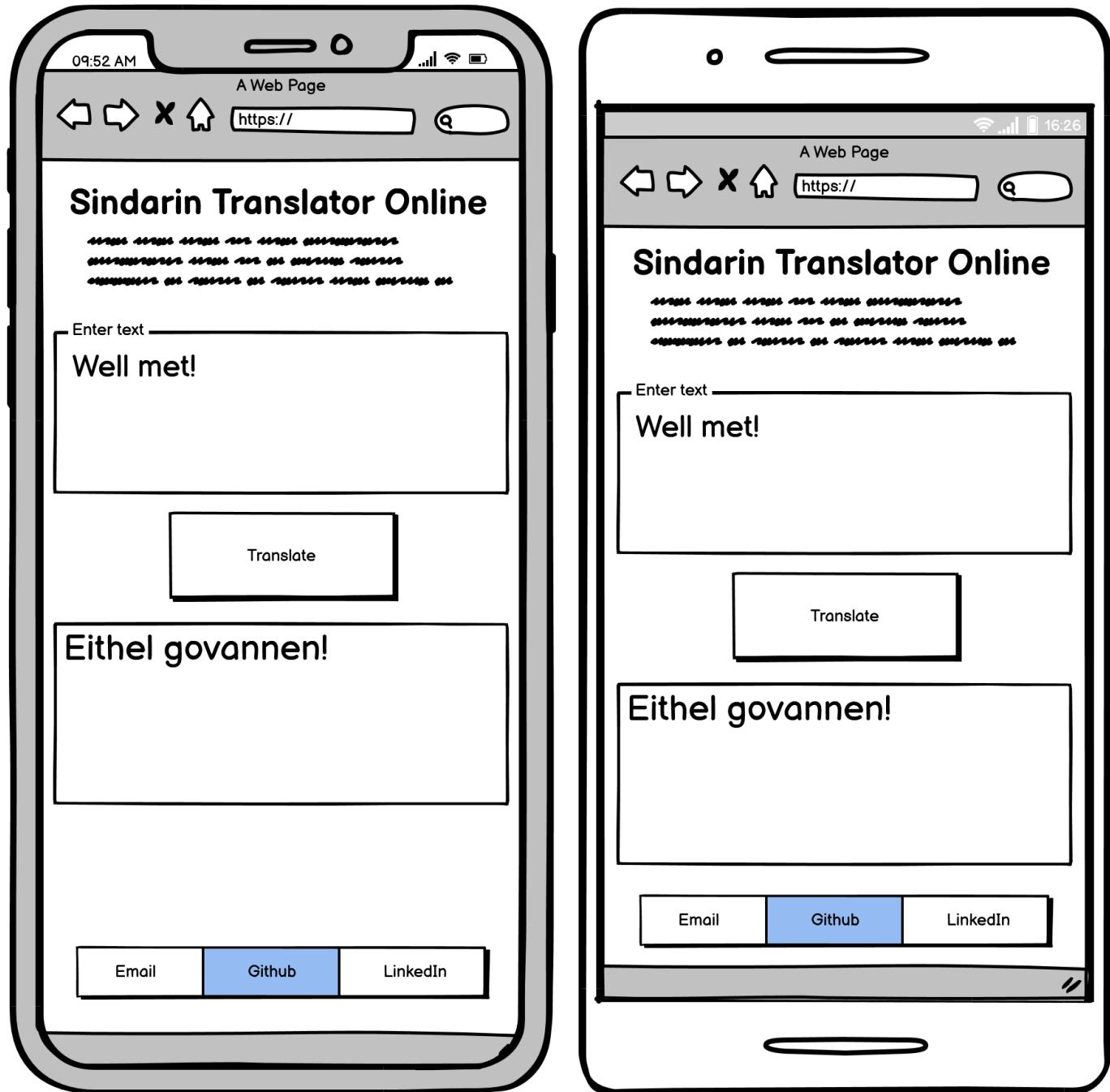
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## Wireframes

PDF version available [here](#). Older versions are available to view [here](#).

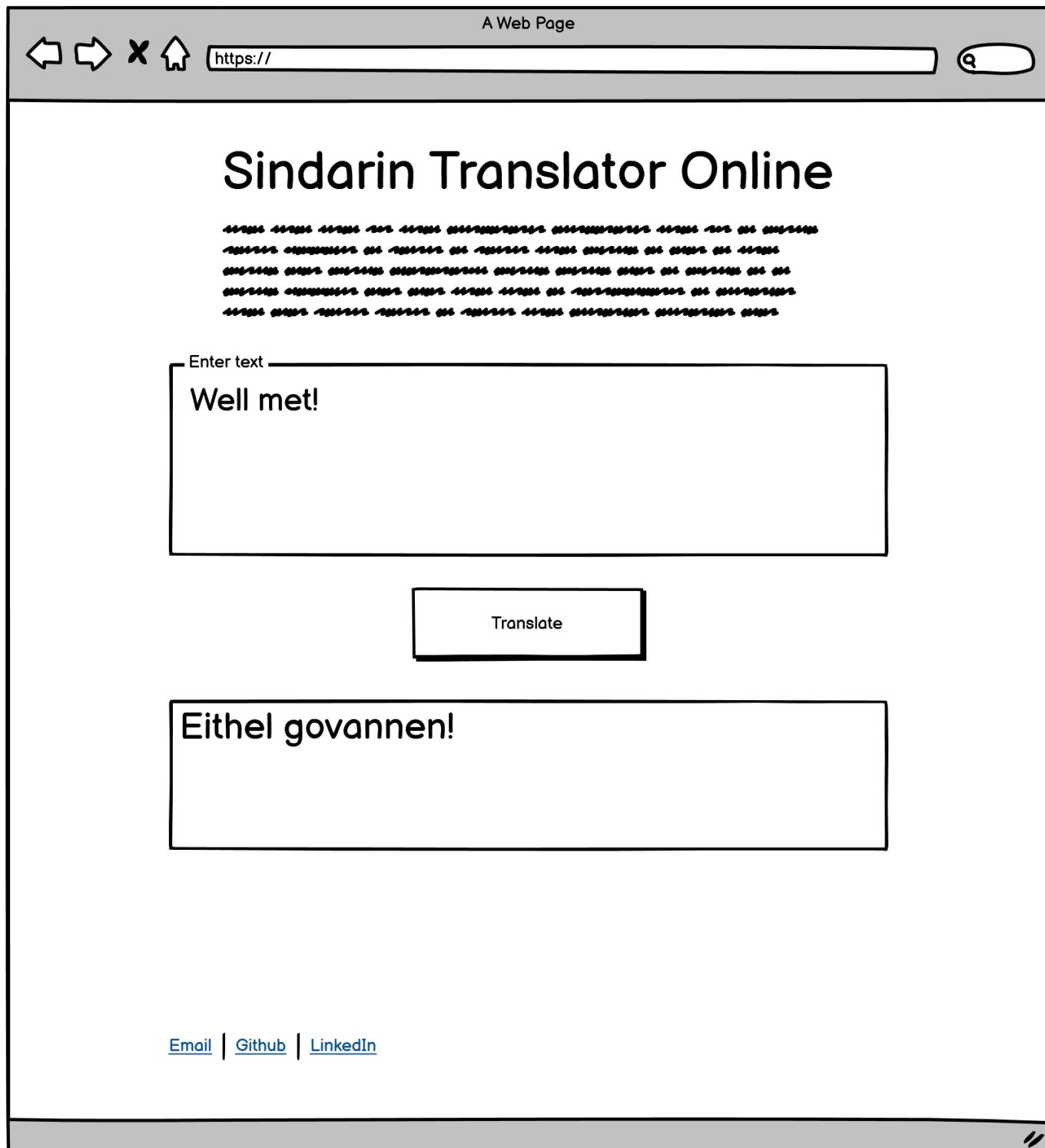
### Mobile

Basic app wireframes based off of *Google Translate* interface.



Desktop

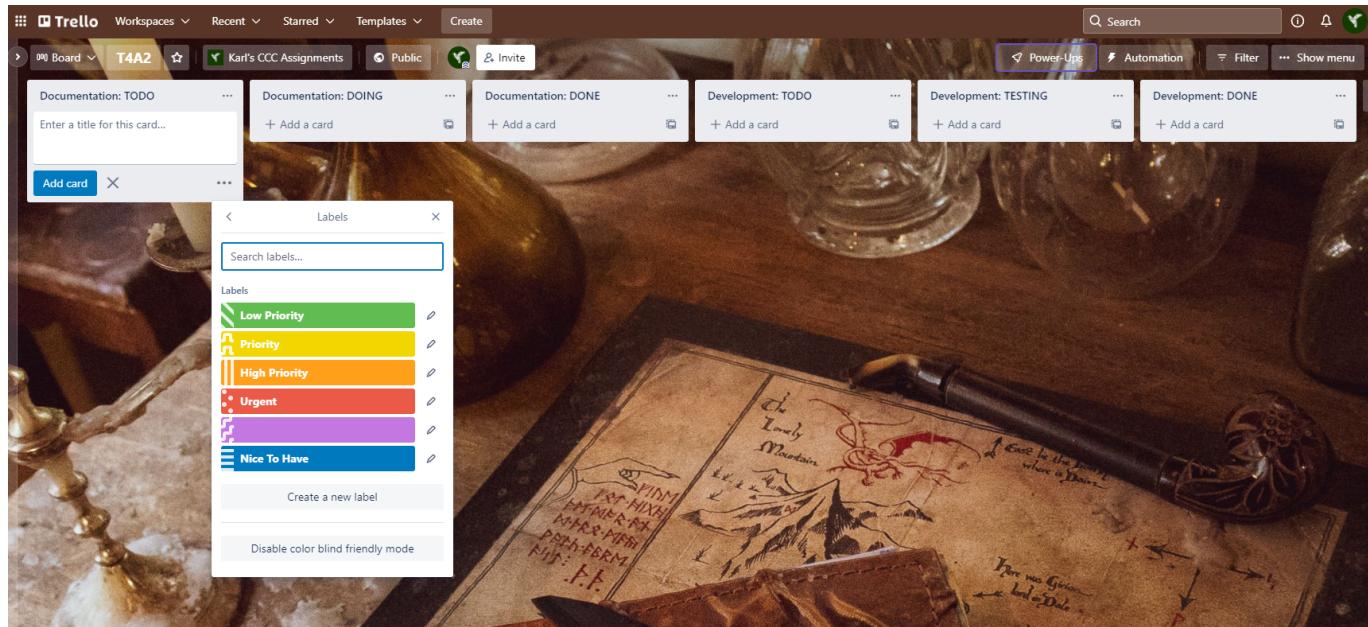
Based heavily off the mobile version, for easy implementation of a responsive site.



## Progress Updates: Trello

19 February 2022

Project Start (with Priority Labels)

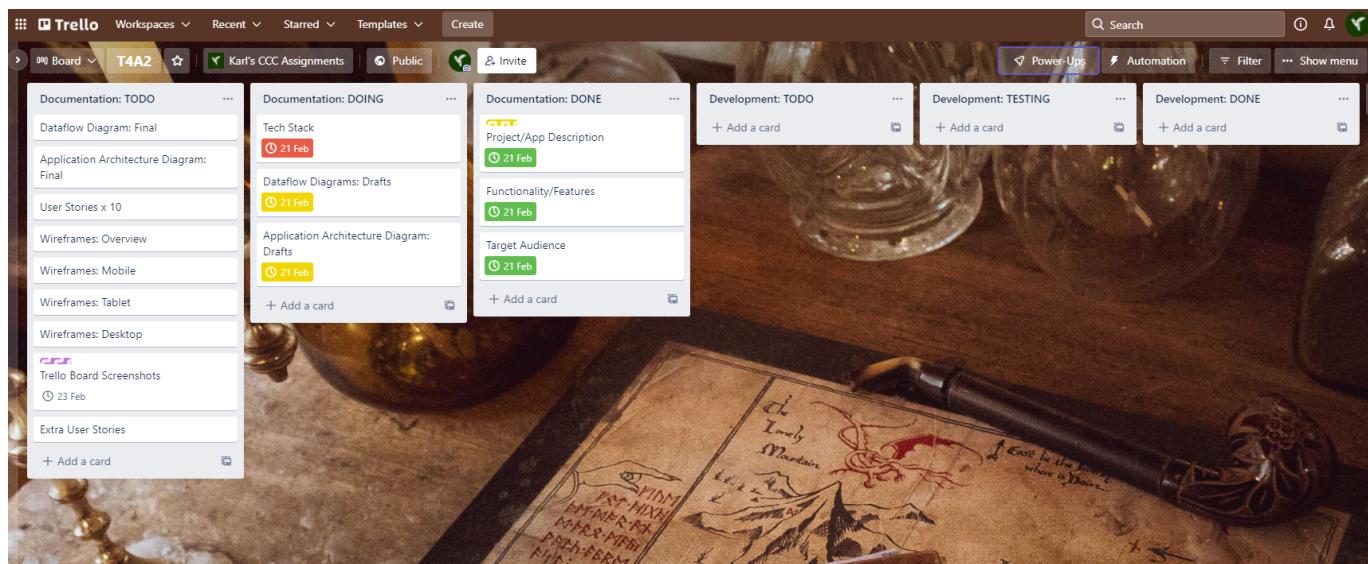


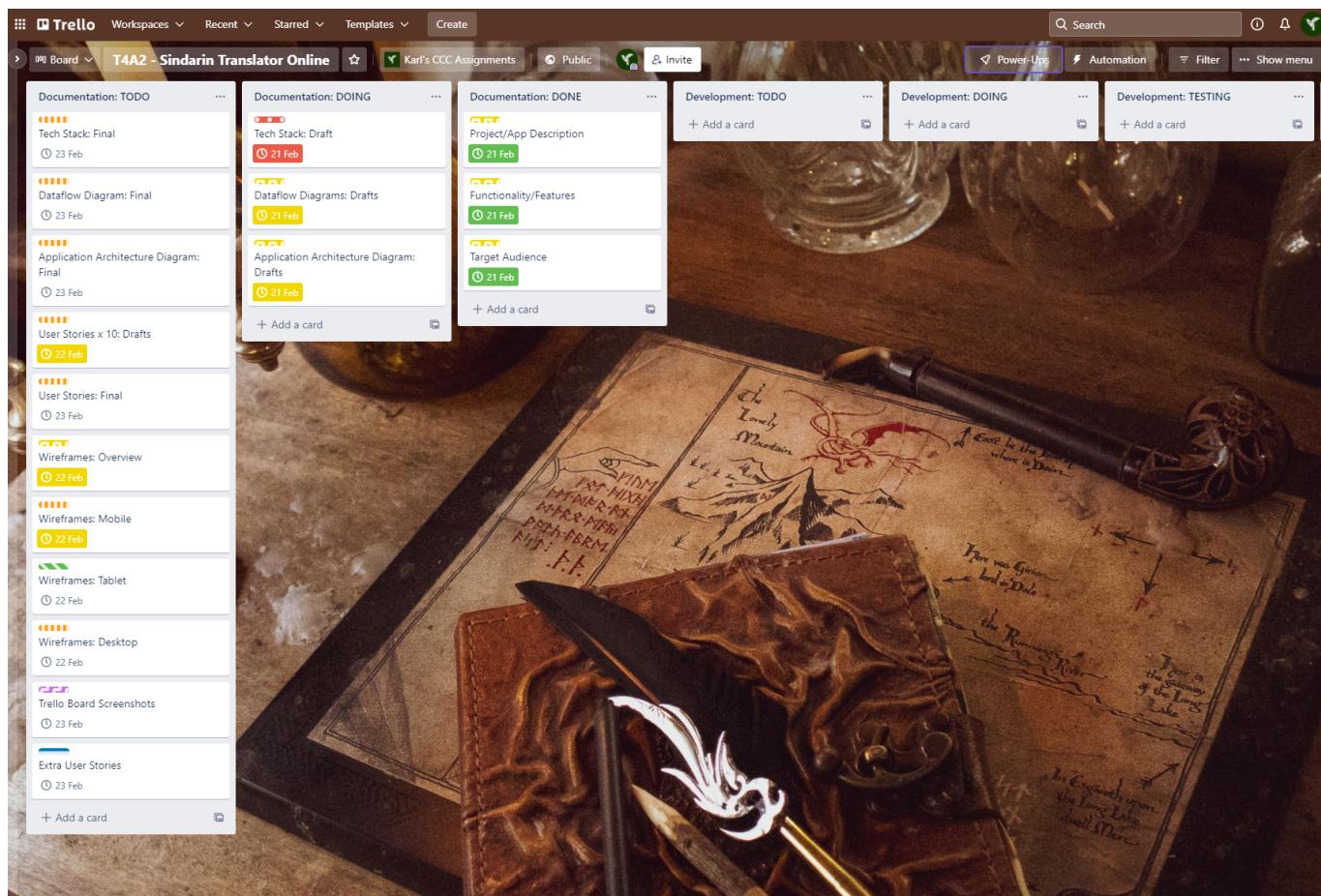
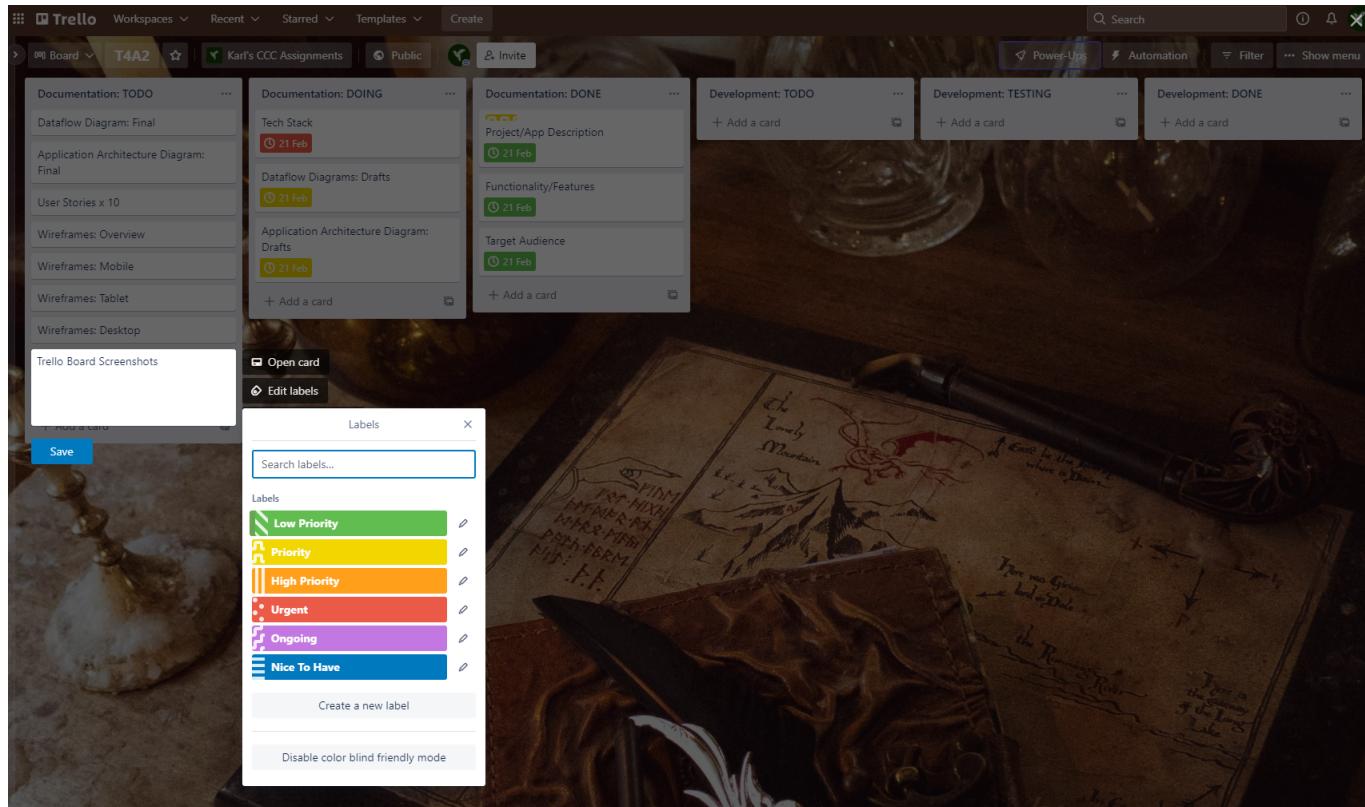
Priority labels as follow:

- \* Low Priority
- \* Priority (default)
- \* High Priority
- \* Urgent
- \* Ongoing
- \* Nice to Have
- \* CRITICAL (added 21.02.2022)

20 February 2022

Updated documentation tasks:





21 February 2022

Documentation: TODO

- Tech Stack: Final (23 Feb)
- Dataflow Diagram: Final (23 Feb)
- Application Architecture Diagram: Final (23 Feb)
- User Stories x 10: Drafts (22 Feb)
- User Stories: Final (23 Feb)
- Wireframes: Mobile (22 Feb)
- Wireframes: Tablet (22 Feb)
- Wireframes: Desktop (22 Feb)
- Trello Board Screenshots (23 Feb)
- OPTIONAL: Extra User Stories (23 Feb)

Documentation: DOING

- Dataflow Diagrams: Drafts (21 Feb)
- Application Architecture Diagram: Drafts (21 Feb)
- Wireframes: Overview (22 Feb)

Documentation: DONE

- Tech Stack: Draft (21 Feb)
- Target Audience (21 Feb)
- Functionality/Features (21 Feb)
- Project/App Description (21 Feb)

Development: TODO

- + Add a card

Development: DOING

- + Add a card

Development: TESTING

- + Add a card

Added 'CRITICAL' priority label:

The screenshot shows a Trello board with several cards and a priority selection menu.

- Wireframes: Tablet**: Due 22 Feb
- Wireframes: Desktop**: Due 22 Feb
- Trello Board Screenshots**: Due 23 Feb
- OPTIONAL: Extra User Stories**: Due 23 Feb
- ADD DEVELOPMENT TASK CARDS!**: Due 24 Feb

A dropdown menu for selecting a priority level is open on the right:

- Low Priority (Green)
- Priority (Yellow)
- High Priority (Orange)
- Urgent (Red)
- Ongoing (Purple)
- Nice To Have (Blue)
- CRITICAL** (Dark Blue, selected)

Below the priority menu are two buttons: "Create a new label" and "Disable color blind friendly mode". A context menu is also visible, with "Edit labels" highlighted.

Added extra "team member" and assigned tasks:

**T4A2 - Sindarin Translator Online**

- Documentation: TODO**
  - Tech Stack: Final (Due 23 Feb)
  - Dataflow Diagram: Final (Due 23 Feb)
  - Application Architecture Diagram: Final (Due 23 Feb)
  - User Stories: Final (Due 23 Feb)
  - Wireframes: Mobile (Due 22 Feb)
  - Wireframes: Tablet (Due 22 Feb)
  - Wireframes: Desktop (Due 22 Feb)
  - Trello Board Screenshots (Due 23 Feb)
  - OPTIONAL: Extra User Stories (Due 23 Feb)
- Documentation: DOING**
  - Dataflow Diagrams: Drafts (Due 21 Feb)
  - Application Architecture Diagram: Drafts (Due 21 Feb)
  - Wireframes: Overview (Due 22 Feb)
  - User Stories x 10: Drafts (Due 22 Feb)
- Documentation: DONE**
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  - Target Audience (Due 21 Feb)
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- Development: TODO**
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- Development: DOING**
  - + Add a card
- Development: TESTING**
  - + Add a card

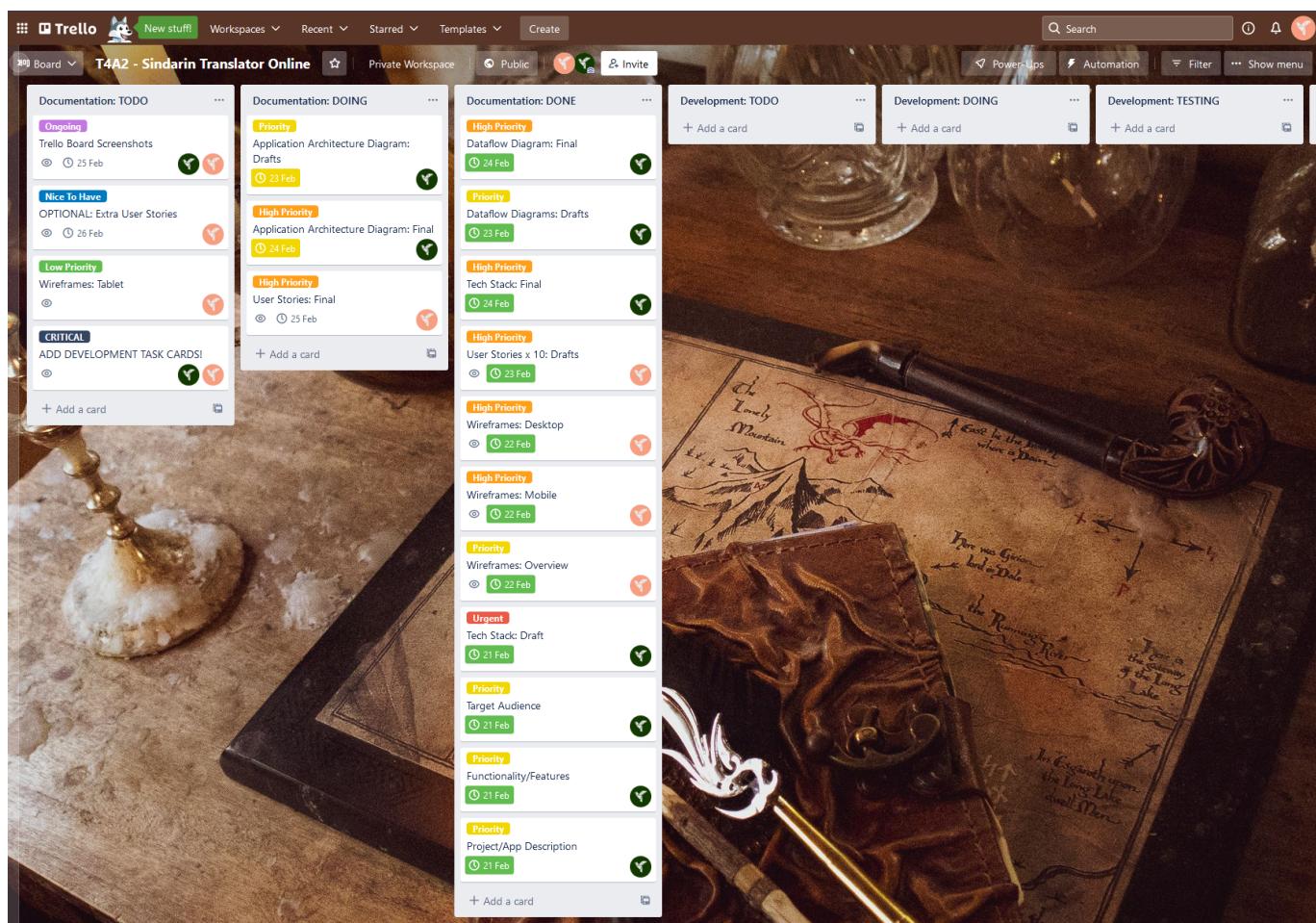
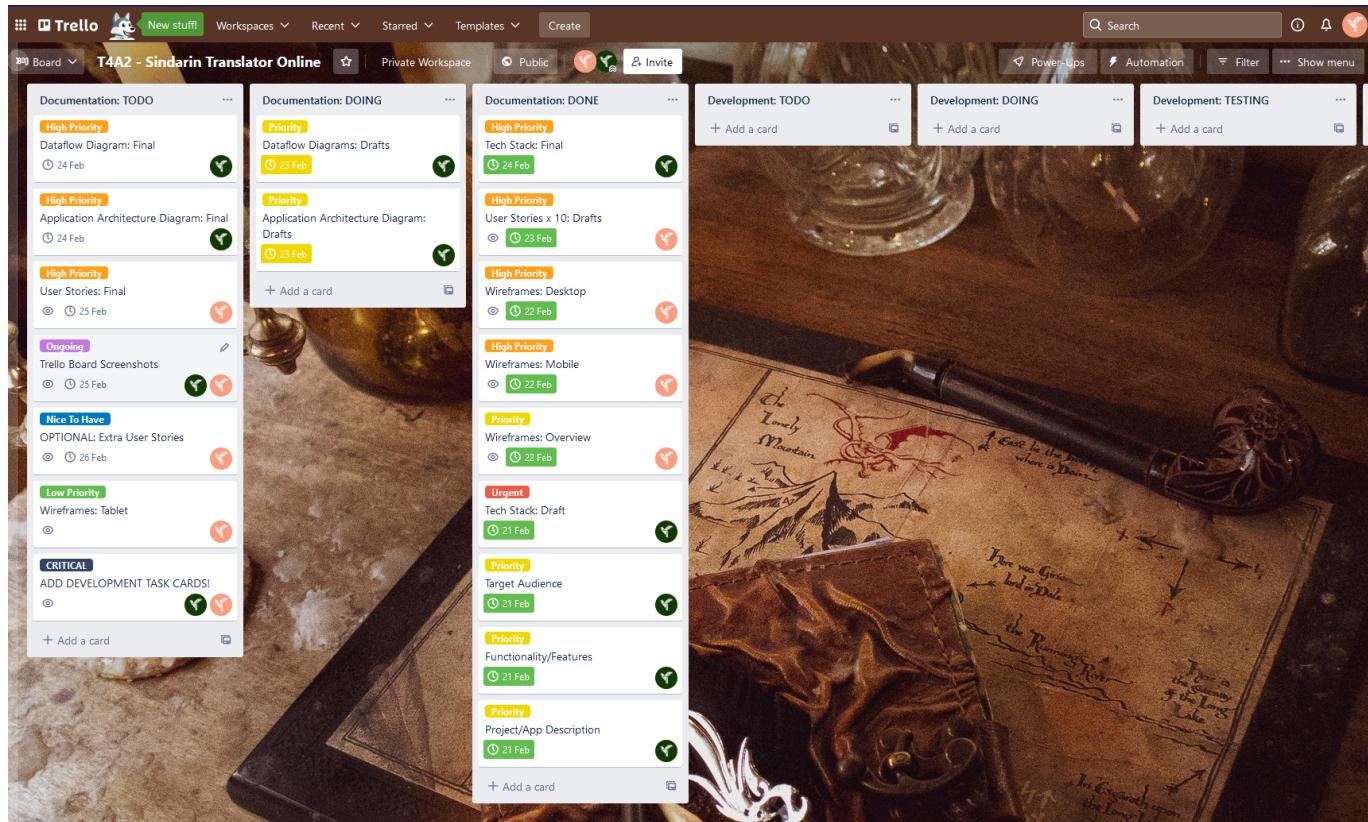
## 22 February 2022

Updated date targets and tasks:

**T4A2 - Sindarin Translator Online**

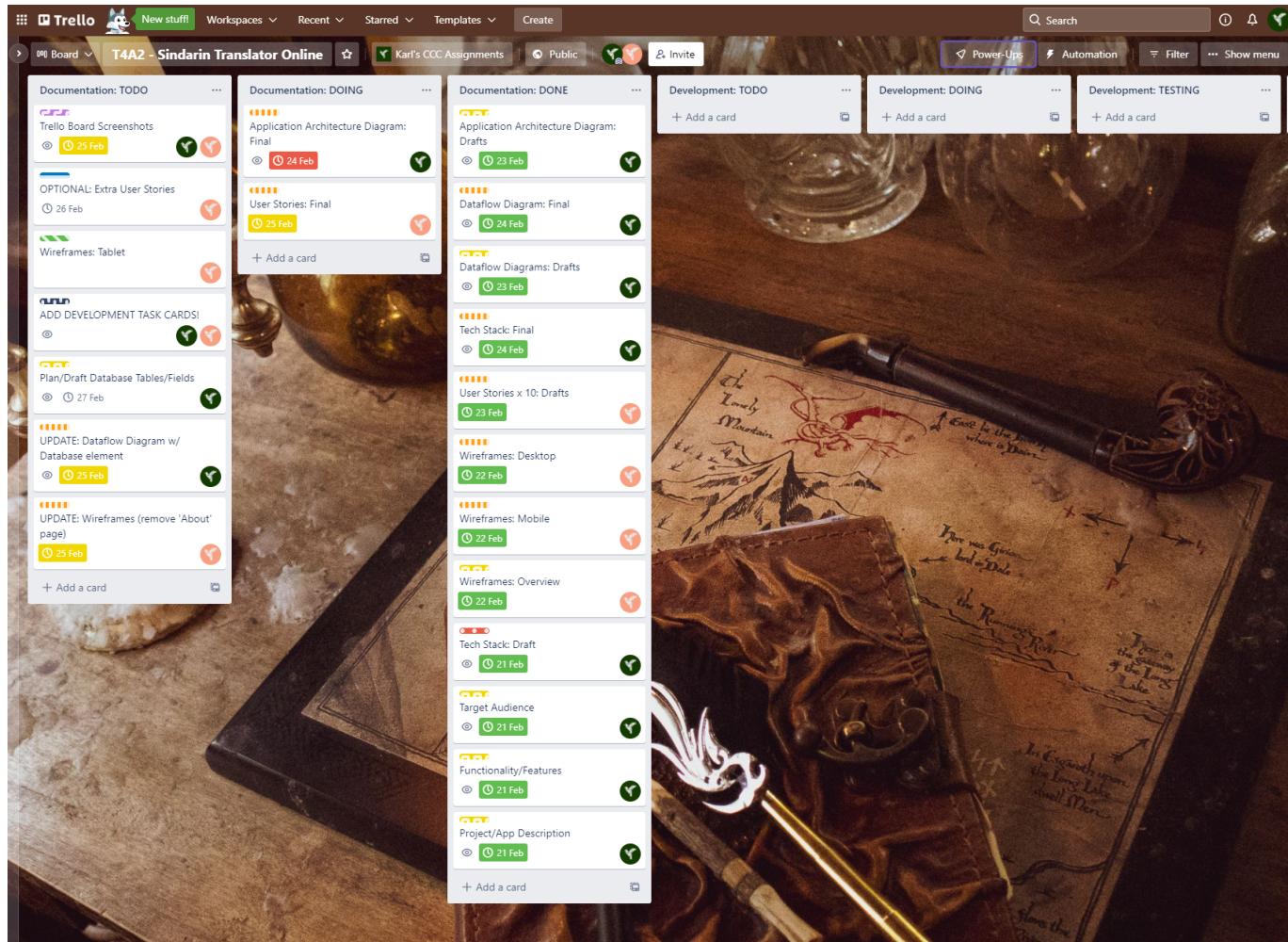
- Documentation: TODO**
  - Tech Stack: Final (Due 24 Feb)
  - Dataflow Diagram: Final (Due 24 Feb)
  - Application Architecture Diagram: Final (Due 24 Feb)
  - User Stories: Final (Due 25 Feb)
  - Trello Board Screenshots (Due 25 Feb)
  - OPTIONAL: Extra User Stories (Due 26 Feb)
- Documentation: DOING**
  - Dataflow Diagrams: Drafts (Due 23 Feb)
  - Application Architecture Diagram: Drafts (Due 23 Feb)
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- Development: TODO**
  - + Add a card
- Development: DOING**
  - + Add a card
- Development: TESTING**
  - + Add a card

## 23 February 2022



## 24 February 2022

Updated and added tasks:



25 February 2022

Updated Tech Stack:

## T4A2-A Ready for submission:

