Team Name: **LexiconArtists**

Members: Yuki Chen, Jessica Titensky, Billy Wong, Henry Zhang
Project Manager: Billy Wong

Role Delegation:
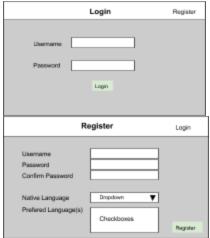Jessica: Posts handling, some front end
Henry: Account management
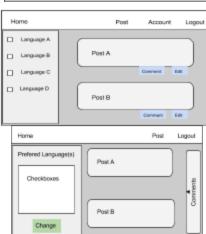Yuki: Front end, Javascript

Project Purpose:
Create a forum based on peer support and communication between those looking to learn new languages.
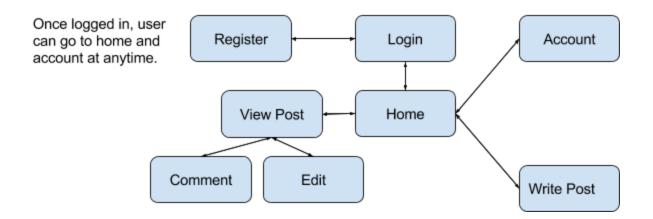
Site Map:
- login.html
  - Username & Password
  - Register button to go to Register.html
- register.html
  - Username & Password & Confirm Password
  - A dropdown list for user to choose his/her native language
  - Checkboxes for languages that the user is interested in. The prefered language(s) will determine what posts will initially be shown.
- home.html
  - Posts will be shown on the right, user can either comment or edit
  - On the left, user can change the language(s) of the posts shown instead of the initial prefered languages

- account.html
  - User can change language settings
  - User can see topics they contributed to
  - User can view comments on topics they created
- writePost.html
  - A drop down menu for user to choose which keyboard he/she wants to write this post in. Can either use keyboard directly or the virtual keyboard
- viewPost.html
  - Versions allows user to change between original and edited versions
  - Comment: any language
    - Sent directly to user
  - Edit: limited to language of post
    - The content of the original post will be given in the edit textbox, then user can make necessary edits
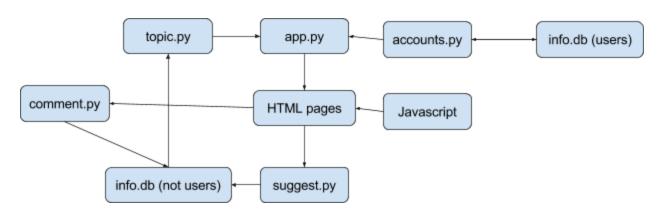
Once logged in, user can go to home and account at anytime.

| Register | ← → | Login | | Account |

View Post ← → Home

Comment   Edit

Write Post

Component Map:

topic.py → app.py ← accounts.py ← info.db (users)

comment.py ← HTML pages ← Javascript

info.db (not users) ← suggest.py

app.py
- Flask app with routes

accounts.py
- Create account/Login
- Manage settings

topic.py
- Sends information to display on the topic pages

suggestions.py
- Add suggestions to the database
- Adds marks to the suggestions

comments.py
- Add comments to the database

info.db
- Refer to database schema

Javascript
- Uses Virtual Keyboard API
- Changes keyboard based on selection

Database Schema:

Users Table

Username - TEXT	Password (hash) - TEXT	Pref. Lang - STRING	Native Lang - STRING	… other data

Posts Table

Username - TEXT	PostID - INTEGER	Title - TEXT	Text - VARCHAR	Revisions - VARCHAR	Comments - VARCHAR

Revisions

Username - TEXT	PostID - INTEGER	RevisionID - INTEGER	Text - VARCHAR

Comments

Username - TEXT	PostID - INTEGER	CommentID - INTEGER	Text - VARCHAR

Additional Features to Work On:

-Allow users to see changes in edited versions via strikethroughs
- ● Further: Interface in editing for users to directly highlight, strikethrough, bold, etc.

-Find a free translation API to provide users with computer generated translations

-Use Google Maps API to create statistics about location and languages

-Possibly provide a way to allow users to make corrections to Google Translate