

Team Name: **LexiconArtists**

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

Project Manager: Billy Wong

Role Delegation:

Jessica: Posts handling, some front end

- Will handle Flask app. process posts, comments, edits; assist Yuki when necessary

Henry: Account management

- Will handle account settings and database component of posts, comments, edits

Yuki: Front end, Javascript

- Will design the html pages with Bootstrap, and work with Virtual Keyboard API

Project Purpose:

Create a forum based on peer support and communication between those looking to practice new languages.

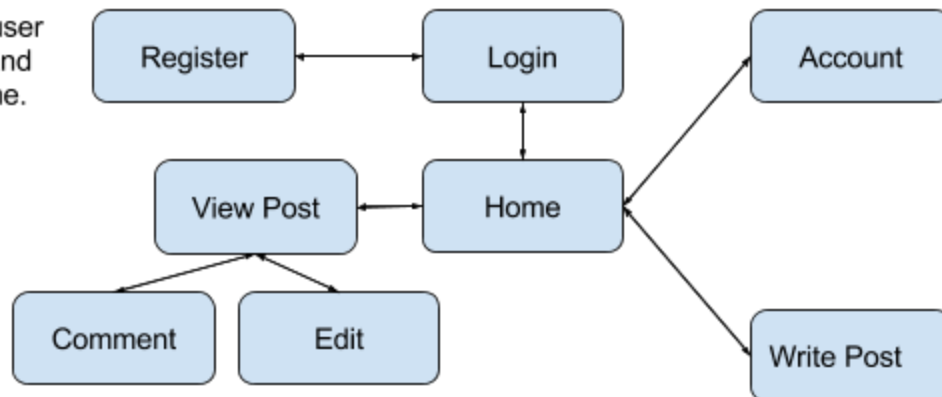
Site Map:

- 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 preferred language(s) will determine what posts will initially be shown.
- home.html
 - Posts will be shown on right, user can comment/edit
 - On the left, user can change the language(s) of the posts shown instead of the initial preferred language
- 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

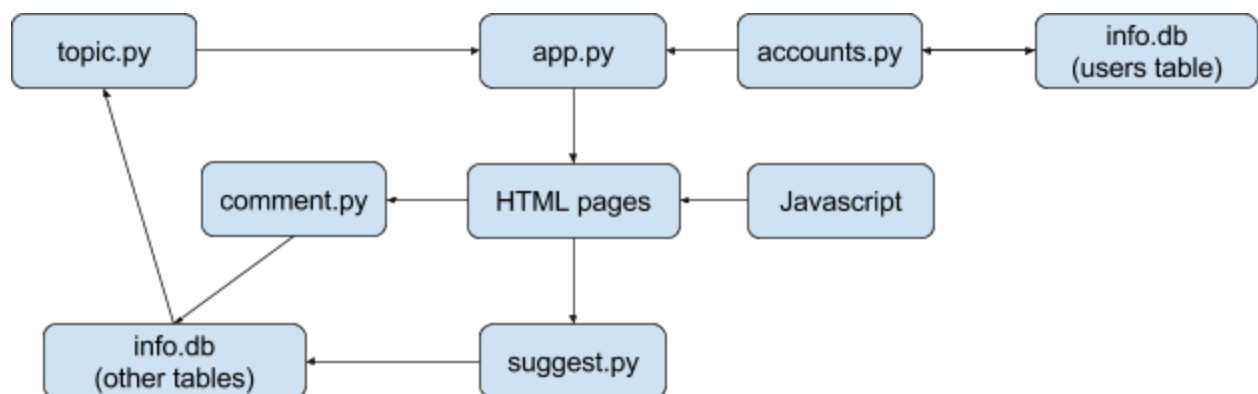
The wireframes illustrate the layout of the forum application across five main pages:

- Login:** Features a 'Login' header with a 'Register' link. It includes input fields for 'Username' and 'Password', and a 'Login' button.
- Register:** Features a 'Register' header with a 'Login' link. It includes input fields for 'Username', 'Password', and 'Confirm Password'. It also has a 'Native Language' dropdown, 'Preferred Language(s)' checkboxes, and a 'Register' button.
- Home:** Features a header with 'Home', 'Post', 'Account', and 'Logout' links. On the left, there are checkboxes for 'Language A', 'Language B', 'Language C', and 'Language D'. The main area displays 'Post A' and 'Post B', each with 'Comment' and 'Edit' buttons.
- Account:** Features a header with 'Home', 'Post', and 'Logout' links. It includes a 'Preferred Language(s)' section with checkboxes and a 'Change' button. The main area displays 'Post A' and 'Post B', each with a 'Comments' link.
- View Post:** Features a header with 'Home', 'Account', and 'Logout' links. It includes a 'Dropdown' menu, a 'TextBox', and a 'Submit' button. Below the 'Submit' button is a 'Virtual Keyboard' button. The main area displays 'Original Post', a 'Versions' dropdown, and two more dropdowns labeled 'Dropdown (C/E)' and 'Dropdown (language)'. Below these is another 'TextBox' and a 'Submit' button, followed by another 'Virtual Keyboard' button.

Once logged in, user can go to home and account at anytime.



Component Map:



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 - TEXT	Native Lang - TEXT	... other data
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Posts Table

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

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

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