

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 process the posts, comments, and edits, will 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.

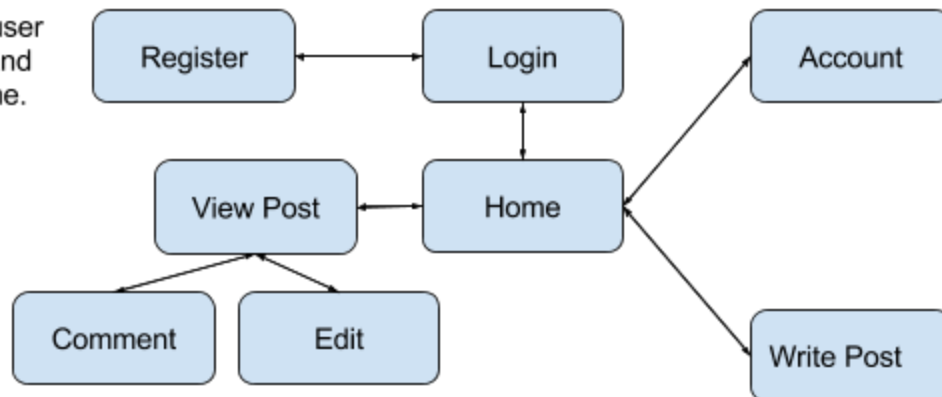
Site Map:

- 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

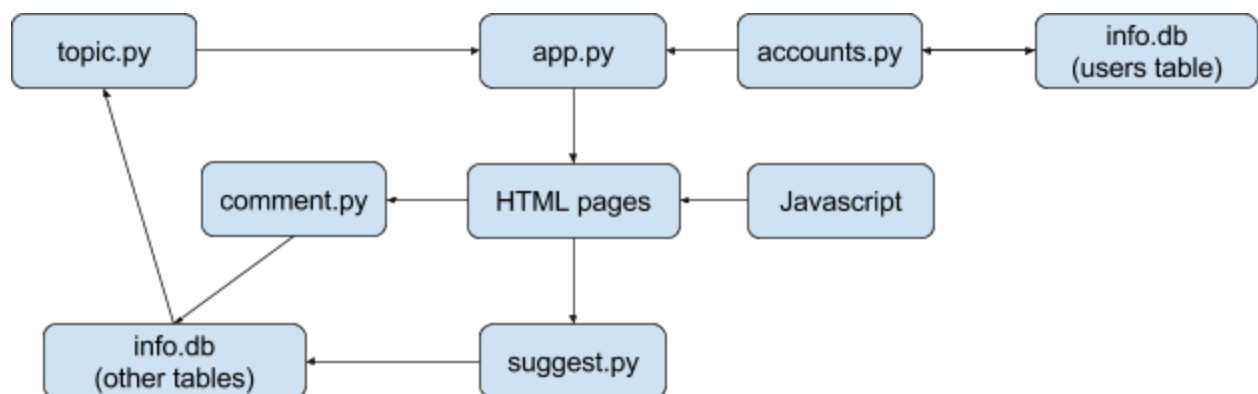
The image displays five wireframes for a forum application, arranged vertically. Each wireframe represents a different page of the site:

- Login:** Features a header with 'Login' and 'Register' links. Below are input fields for 'Username' and 'Password', followed by a 'Login' button.
- Register:** Features a header with 'Register' and 'Login' links. Below are input fields for 'Username', 'Password', and 'Confirm Password'. It also includes 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 is a list of checkboxes for 'Language A', 'Language B', 'Language C', and 'Language D'. On the right, two post boxes are shown, each with a 'Comment' button and an 'Edit' button.
- Account:** Features a header with 'Home', 'Post', and 'Logout' links. On the left, there's a 'Preferred Language(s)' section with checkboxes and a 'Change' button. On the right, two post boxes are shown, each with a 'Comments' button.
- View Post:** Features a header with 'Home', 'Account', and 'Logout' links. It includes a 'Dropdown' menu, a 'TextBox' for editing, a 'Submit' button, and a '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