

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 preferred 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 preferred 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

Mockup of the Login page. It features a header with 'Login' and 'Register' links. Below the header are two input fields: 'Username' and 'Password'. A green 'Login' button is positioned below the password field.

Mockup of the Register page. It features a header with 'Register' and 'Login' links. Below the header are four input fields: 'Username', 'Password', 'Confirm Password', and 'Native Language' (a dropdown menu). There are also 'Preferred Language(s)' checkboxes and a green 'Register' button.

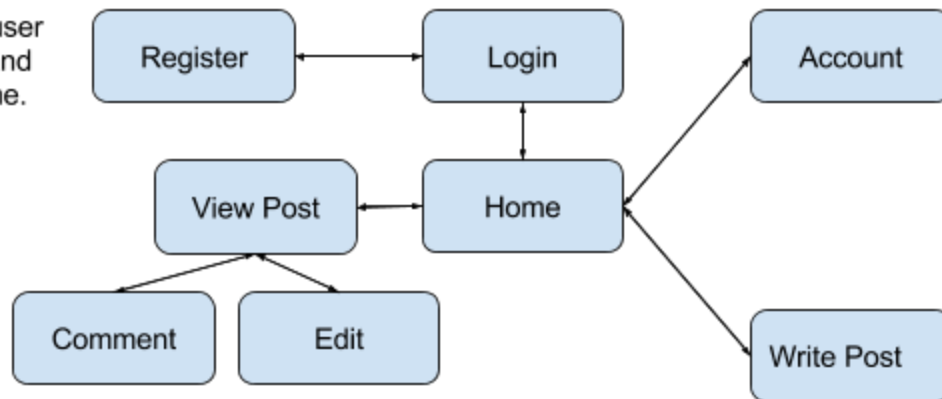
Mockup of the Home page (top version). It features a header with 'Home', 'Post', 'Account', and 'Logout' links. On the left is a list of checkboxes for 'Language A', 'Language B', 'Language C', and 'Language D'. On the right are two post boxes, 'Post A' and 'Post B', each with 'Comment' and 'Edit' buttons.

Mockup of the Home page (bottom version). It features a header with 'Home', 'Post', and 'Logout' links. On the left is a 'Preferred Language(s)' section with checkboxes and a green 'Change' button. On the right are two post boxes, 'Post A' and 'Post B', each with a 'Comments' button.

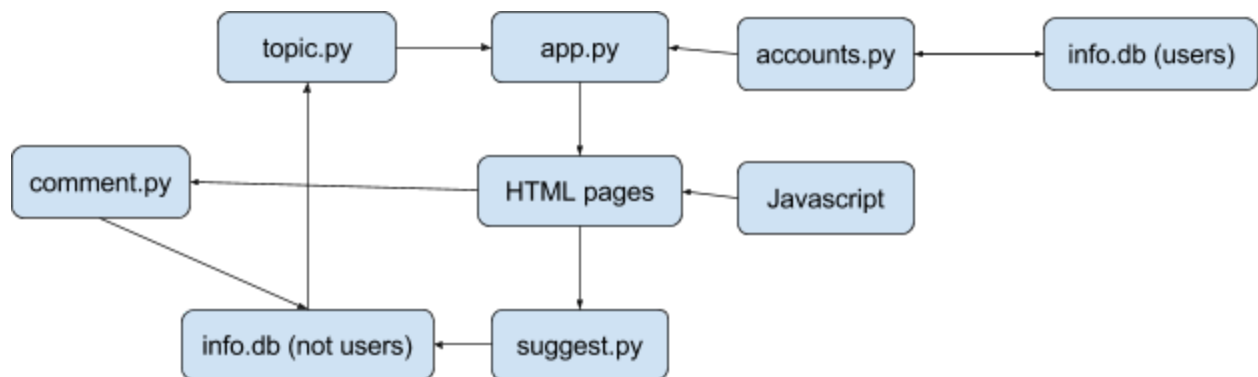
Mockup of the writePost.html page. It features a header with 'Home', 'Account', and 'Logout' links. Below the header is a 'Dropdown' menu, a 'TextBox' for writing, and a green 'Submit' button. A blue 'Virtual Keyboard' button is located below the submit button.

Mockup of the viewPost.html page. It features a header with 'Home', 'Account', and 'Logout' links. Below the header are two sections: 'Original Post' and 'Versions'. The 'Original Post' section has a 'Dropdown (C/E)' and a 'Dropdown (language)'. The 'Versions' section has a 'Versions' dropdown. Both sections have a 'Submit' button. A blue 'Virtual Keyboard' button is located below the submit buttons.

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 - STRING	Native Lang - STRING	... 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

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Unnecessary detail not needed in project purpose

We specialize in ease of access of typing in various languages. For that, we want to use the Google Keyboard API to give users a versatile Virtual Keyboard to refer to.

Posts have different language tags. We can use these tags to sort the posts into different sub-forums, and users can save the tags they want in their settings so they can choose to only see posts from the languages they care about in their home feed.

Home Account Logout

Original Post

Edit Textbox Submit

Virtual Keyboard