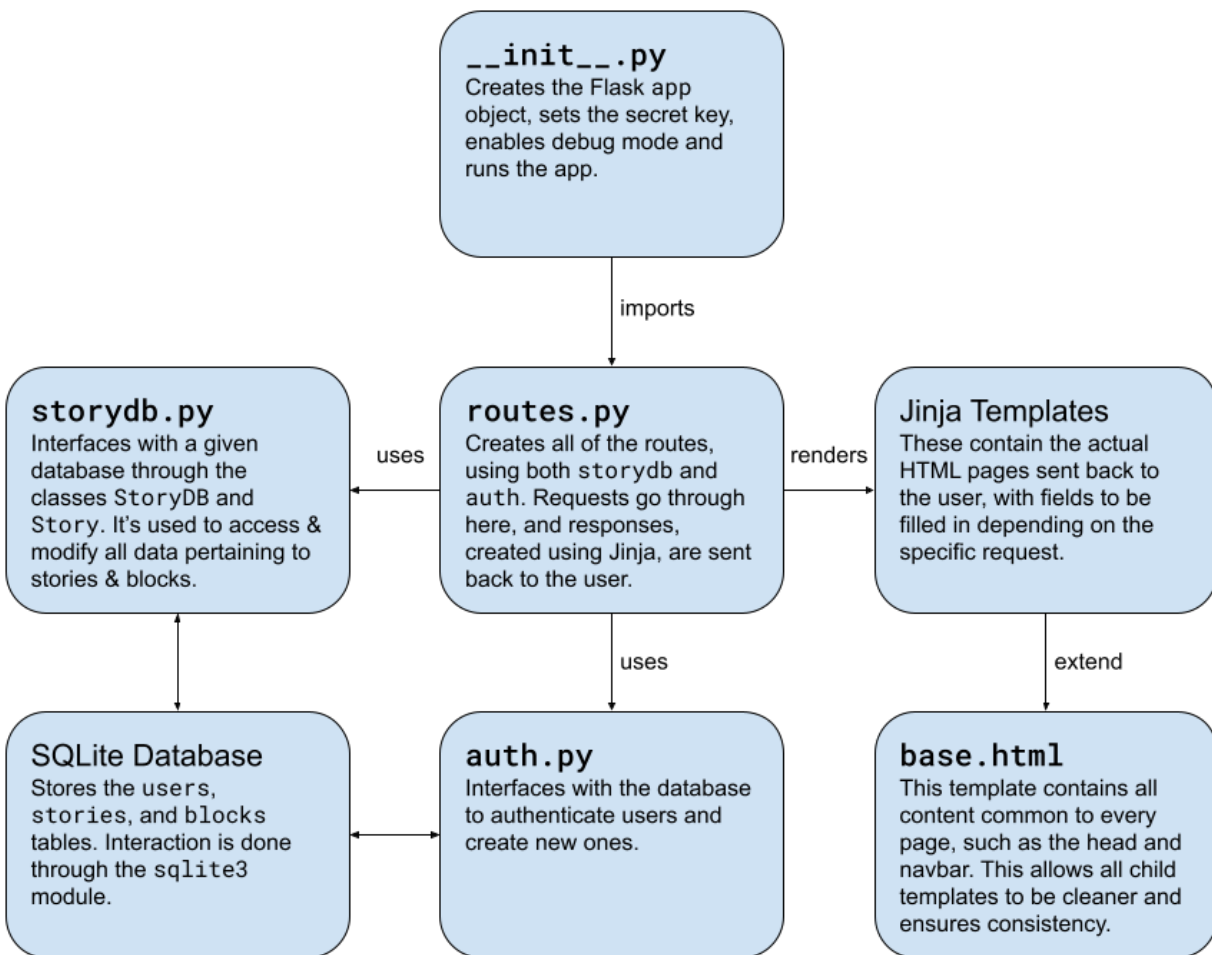


Design Components

- Flask: Handles website routing and connects the frontend with the backend. Uses Python to define the logic for handling user inputs and make database queries.
- Sqlite3: Creates and handles backend database queries related to user and story information.
- HTML: Markup language to create frontend components that the user will see, served by Flask.

Component Map:



Database Organization

We will have three tables: users (handles account information, credentials, etc.), stories (handles story information), and blocks (the individual content pieces of a story).

The columns for each table are shown below. Note that user_id, story_id, block_id, and username are all unique.

Users

user_id	username	password
gzi2fl6V	devo123	[SHA-512 hash of the actual password]

Stories

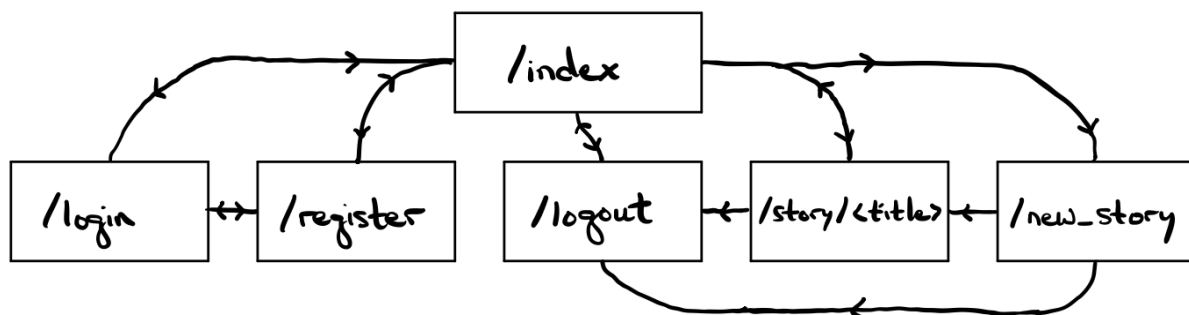
story_id	creation_timestamp	creator_id	num_blocks	last_block_id	title
8Y12cg49	2021-10-28 21:39	gzi2fl6V	1	6XAM5t7C	3 Little Devos

Blocks

block_id	creation_timestamp	story_id	author_id	position	block_text	block_img
6XAM5t7C	2021-10-29 06:53	8Y12cg49	gzi2fl6V	0	Words...	Image link...

The above database setup prioritizes the two kinds of story lookups: finding the last block of a story (hence the last_block_id column) and finding the full text of a story (which can be done by filtering the blocks list for a given story_id and sorting by position).

Sitemap



/index

Welcome!
Please [login](#) to continue.

New user? [Register](#)

/login

Log In

Username:

Password:

New user? [Register](#)

/register

Register

Username:

Password:

Confirm:

Existing user? [Login](#)

/index (logged in)

Hello, [username]!

+ New Story

Stories You've Contributed To	Add to a Story
Alfred in Wonderland	3 Little Devos
Another Story	Another...

/story/<title> (contrib.)

Alfred in Wonderland

Ⓒ Once upon a time...

Ⓓ Some other part...

/story/<title> (not contrib.)

3 Little Devos

Ⓐ Not by the hairs on my
chinny chin chin!

Add to the story...

Image link

/new_story

Create A New Story

Task Breakdown

- Setup basic Flask routes
 - Index – **Yusuf**
 - Login – **Yusuf**
 - Register – **Yusuf**
 - Story/<title> – **Chris**
 - New_story – **Chris**
- Create HTML templates for pages
 - Index (not logged in) – **Naomi**
 - Index (logged in) – **Naomi**
 - Login - **Deven**
 - Register- **Deven**
 - Account details
 - Story (for contributors)- **Deven**
 - Story (for people who haven't contributed yet) – **Naomi**
 - Only last block
 - New story – **Naomi**
- Setup SQLite database
 - Users - **Deven**

- Stories- **Yusuf**
- Blocks – **Yusuf**