## Design Document

### Functionality
- User creation/authentication
- Logged in users can either start a new story, add to an existing story, or view stories
- When adding to a story:
  - Users are shown only the last addition, not the whole story
  - Adds on to the story with only the info provided
  - Cannot add on to story more than one time
- When creating a new story:
  - Users get to start with any amount of text and give the story a title
  - Logged in users will be able to read any story they have contributed to on their homepage (the landing page after login)
- Search bar:
  - Users/guests can search for stories using the ID# or title
  - Once on a story's page, users can add on to the story if possible
  - Users that have not contributed and guests can only see the most recent update of a story

### Team Roles
1. Arif (PM)
   a. Management of deadlines and productivity
   b. Creation of user accounts/authentication
   c. Summary document
2. Jen
   a. Adding onto a story
   b. Viewing stories after being updated
3. Shannon
   a. Creation of new story
   b. Search bar functionality
4. Samantha
   a. Creation of templates
      i. Base template; homepage; general story; story creation/contribution; search page
5. Charles
   a. Database creation
   b. Database updating and maintenance

## Tasks Required for Completion
- Pages:
  - A base template with a navigation bar
  - Different displays based on the type of page
  - Jinja placeholders for variable content
- Login/Account creation system
  - Database needed to authenticate login
  - Accounts need to be added to database upon creation
  - Option to change password or nicknames
- Search the site for stories
  - Keywords in story determined by frequency (disregarding prepositions, pronouns, etc.)
  - Title and ID of story are searchable
  - Only able to see the full story if logged in and a contributor to that story
- Add on to a story
  - Can only add on as a new contributor
  - Only view the most recent update (last entry of list of updates in story database)
  - Form to submit new entry into story database
- Creation of a story
  - Write the first portion of a story with title
  - Create new database for updating
- Database must be continually maintained
  - Script should be run once for initialization (__name__ = __main__)
  - One table for login data
  - One big table for all user histories (like grades from stu_mean.py)
  - A table for each story and its contributions

## Database Schema
*User authorization*
*TABLE NAME: users*                                              *# nickname optional for fun*

| Username PRIMARY KEY | password |
|---|---|
| Aesop_admin | password123 |

*Table for each story*
*TABLE NAME: stories*

| Story ID | Title | Full Story | Last Entry |
|---|---|---|---|
| 210 | "The Vegan Bear" | "The bear found a plant in the woods. \nHe thought it tasted horrible, but it made him feel HELLA healthy.\n" | "He thought it tasted horrible, but it made him feel HELLA healthy.\n" |

*History*
*TABLE NAME: history*

| username | Time (optional for now) | Story ID # (contributed) | Entry |
|---|---|---|---|
| Aesop_admin | 23:59 | 210 | "They found a plant in the woods." |
| Aesop_admin | 05:31 | 215 | "Elmo loves his goldfish!" |

## Site map
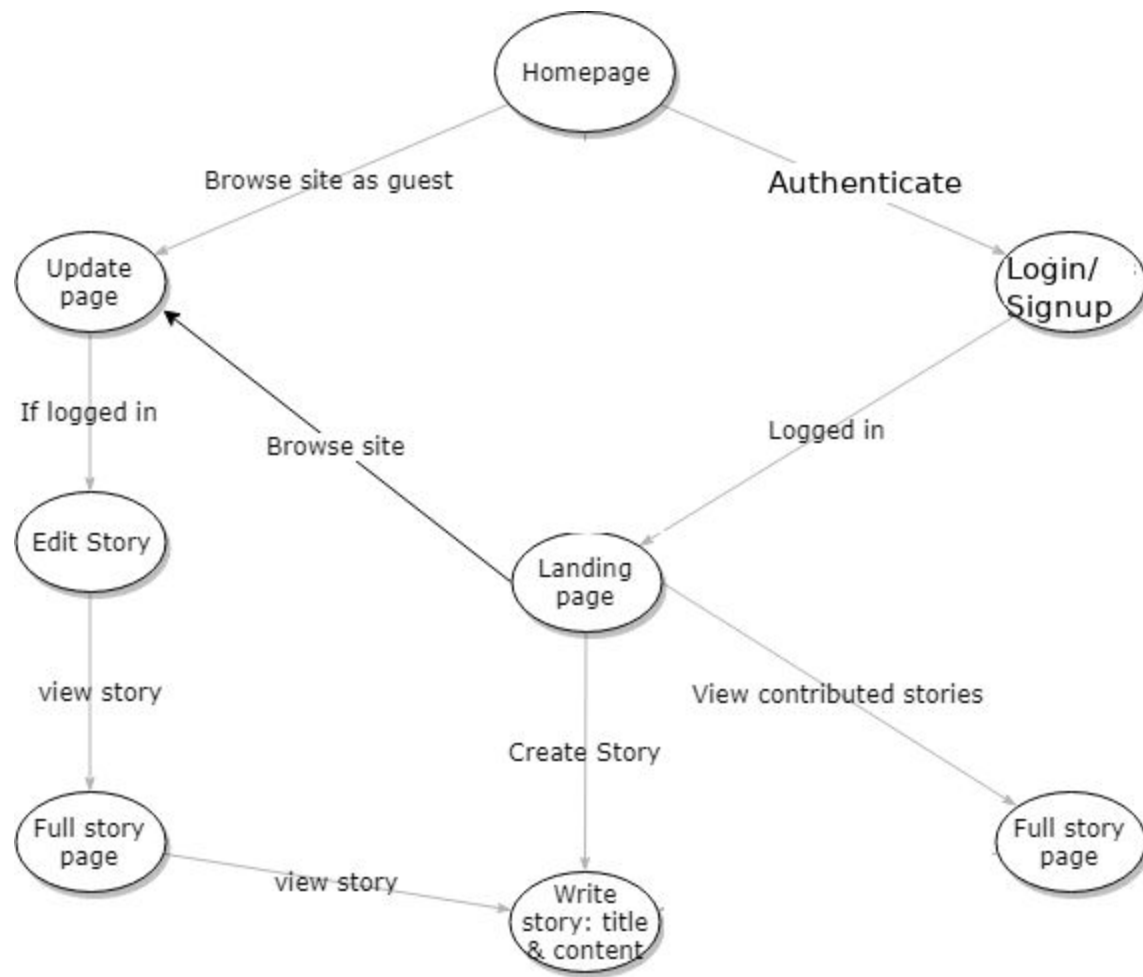
The uses logs in. Then they are taken to their profile page where they can view stories they have contributed to. From there they can either create a new story, contribute to a new story, or view stories they have contributed to. Certain credentials are needed to perform tasks, and there are pathways to take in order to update, create or view a story.

**Component map**

This diagram shows how the different components of the site interact with each other. The database is used by flask to fill in the Jinja templates. Python handles the logic regarding what to display and database manipulation.