

**EngageHer:**

**A Platform to Improve Enrollment of Girls in Engineering**

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**Abstract:**

EngageHer is a platform to promote STEM careers to girls. The site will be secure, user-friendly and compatible with desktop and mobile devices. It will feature blogs on STEM topics, webinars, workshops, a scholarship listing and a forum of tech topics. The site will have zoom links for the web classes, YouTube links for the archived videos and website links in the scholarship list. The workshops, blogs and webinars will be done by mentors who want to meet with and encourage girls that are interested in STEM careers. Users can post their resume and introduce themselves on their profile, and mentors who provide blogs, forum answers, webinars and workshops can meet students interested in STEM fields. The user data will be encrypted and kept in a sql database. The same database will be used to verify users for logging into the site. The site will feature links to external sites to promote the site and encourage users to post about the site.

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## **Introduction:**

**Overview of the Project:** EngageHer is a site designed to encourage girls to go into STEM careers. It provides information and resources on STEM topics and gives students and mentors a place to meet and connect.

**Problem Statement:** Women continue to be underrepresented in STEM fields. According to the UIS data, the percentage of women in STEM is 35% globally, but that number has not increased for approximately a decade [1]. The site aims to help decrease the gender gap in STEM fields by encouraging girls interested in STEM and providing them with resources. The long history of women being discouraged from non-traditional female roles in the family and the workplace is common knowledge. With some rare exceptions, someone sitting in a STEM class or in a STEM office can look to their left, look to their right, and easily observe that men outnumber women in STEM courses and careers. This lack of women in science, math, technology and engineering fields both decreases diversity in the workplace which limits the number and variety of ideas and perspectives used in STEM fields, and decreases the average income of women because STEM professions tend to be higher paid careers than the average.

**Objectives and Scope of the Project:** The goals of the project are to promote STEM fields to girls with STEM blogs, forum posts, workshops, scholarship listings and webinars and to give girls a chance to meet and connect with mentors in STEM fields. Sites and programs that encourage girls to go into STEM already exist, but it is an uphill battle to overcome the traditional notions of feminine roles in the world and in the workplace. Sites that promote women in STEM let girls know that women can have STEM careers and do already have STEM careers. Sadly, what is most needed is a broader social shift in how women and girls are perceived in society. This site can chip away at those stereotypes and let girls know what is possible for them if they pursue careers in science, math, technology and engineering.

Perhaps what is needed most is defense against bullying, harassment and exclusion, but while the site aims to be secure and provide helpful resources, it is out of this project's scope to fix the prejudice women face in the working world. Legal requirements for equal pay for equal work, and stricter penalties on bullying, harassment and exclusion are necessary to truly level the playing field. There are organizations to promote these ends, but this site only intends to provide resources to girls interested in STEM fields with the hope that significant progress is made on

workplace and social prejudice against women. With the proper STEM resources and social and legal protections from prejudice and exploitation, women can make full use of their talents and skills and receive full recognition for their work in STEM fields.

**Importance of the Potential Impact:** The project will create a safe place for girls interested in STEM to learn about STEM topics and ask questions without fear of being ignored or bullied. Women are harassed and bullied at higher rates in STEM fields in both school and the workplace, and social norms define both who holds the power and belongs, and who is considered inferior and out-of-place [2]. Creating a safe place for girls to learn about STEM and to interact with other women in STEM and supporters of women in STEM will both increase interest in STEM and decrease the number of girls who abandon STEM due to a lack of support. This site aims to inspire girls who want to try STEM fields and let them concretely know that it is possible for them to pursue a STEM career.

This site will provide a place for girls to meet other women already in science, math, technology and engineering fields, and women in STEM and supporters of women in STEM can contribute workshops, webinars, and blogs for mentees new to STEM to view and learn from. The interactive forum provides a place for mentees to ask questions and other registered site users can answer and provide guidance. All blog, workshop and webinars must have prior approval before being added to the site, and any comment or forum post that is flagged as inappropriate can be hidden or removed with database access. By its nature, the site will launch mostly empty, with some instructions in the help section, and a few blogs and zoom meetings to start off. The professional mentors will suggest and create the blogs, workshops and webinars. The video archive list will be listing YouTube video recordings of past workshops and webinars. The forum will be filled with user created content and comments. This site functions like a specialized social media site where the mentors and mentees will create the STEM content with their use of and contributions to the site. Therefore, the site will not only provide useful STEM information it will also provide connections to mentors and other women and girls who are interested in STEM. In hindsight, a personal chat feed for each user that other users can comment on and providing direct access to the user profile and resume, might be a good future additions. In summary, providing a safe place for women and girls to learn about STEM and interact with other others who support them on their journey will increase the number of women and girls who pursue

STEM careers. This will increase workplace diversity, and it will marginally improve the career opportunities for women and girls.

### **Functional and Non-Functional Requirements and User Stories:**

#### **Functional:**

**Blog and Article Database:** The blog posts will be created by mentors and STEM professionals who will write inspirational stories and interesting articles about STEM developments and topics. This page is searchable by keyword. Registered users may comment on the blog. Inappropriate comments can be hidden or removed with database access.

**Page Scholarships with Links:** A page of regularly updated scholarship links will be hosted so that girls interested in STEM can find financial opportunities. These links open the scholarship links in a new tab or window.

**Login and Database of Users:** Users will be required to register and be verified before they can use the site. The login information will be kept in a database. Users must login to use the site, and after the site is closed, the user automatically logs out. User login data is in the same database as the User Profile data. For unsuccessful logins, the login page is displayed. New users have a registration option on the login page.

**User Profiles:** Users have the option to add personal data about themselves including a picture and a resume. This same database is used to hold the username and password for the account. Users have the option to edit their data.

**Webinars and Workshops:** The webinars and workshops are hosted on Zoom by mentors and STEM professionals. The site maintains a list of links to upcoming events. The site remains open while the user attends the zoom meeting. Webinars and Workshops are recorded and the videos are uploaded to YouTube, and the links to them are added to the video archive page.

**Video Archives:** The site has a list of links to past webinar and workshop videos that are hosted on YouTube. The video descriptions are searchable by keyword.

**Privacy Policy:** The site allows the user to view the site's privacy policy. This is under the options menu. When registering for the site, the privacy policy is displayed and requires an agreement from the user.

**Help:** A list of common site problems and admin contact information is provided in the help section. This is available under the options menu.

**Forum:** The forum allows users to post a question, comment on an existing question, and report inappropriate content for review. The posts are displayed in order from most recent to least recent. The posts can be searched by keyword. Content flagged for review will be hidden until it either receives admin approval as being acceptable, or is removed from the site by the admin.

**Index:** The homepage is loaded after a successful user login. It contains links to the major site features. Clicking on the logo and site name at the top of a page will return the user to the homepage.

## **User Stories:**

### **\* See Appendix for User Story Details**

User Story US01: As a user, I want to log into the site so that I can access the site.\*

User Story US02: As a user, I want to search for blogs so that I can read them.\*

User Story US03: As a user, I want to attend a STEM workshop so that I can learn and meet STEM professionals.\*

User Story US04: As a user, I want select an old webinar videos so that I can watch it.\*

User Story US05: As a user, I want to customize my user profile and add a resume.\*

User Story US06: As a user, I want to post a question in the forum so that people can respond with answers to my question.\*

User Story US07: As a user, I want to know what the privacy policy is so that I can better protect my personal data.\*

User Story US08: As a user, I want to use the help file so that I can look up the answer to my question.\*

## **Non-Functional:**

**Security Encrypted:** The site will be security encrypted to protect the information of the girls and their supporters from exploitation and bullying. The data itself will be encrypted, and the access to the database must also be secure.

**User-Friendly UI:** The site will have an intuitive user interface so that the features will be easier to find and use and to make the experience of using the site more enjoyable.

**Compatible with Laptops, Tablets and Phones:** The site will adjust the layout and features based on the device being used so that it remains easy to use and navigate regardless of the device used to access it. Smartwatches, however will not be supported because too much functionality is lost on such a small device. Whether the site will be hosted on a cloud, hosted on a web server, downloaded as an app, or will have multiple hosting and downloading options will have to be worked out with the stakeholders in terms of how they want it to be distributed and how much they want to spend on hosting, maintenance and updates.

**Fast Load Times / Low Lag Time:** The site will load quickly and react to user inputs quickly so that the user does not get impatient and leave the site. When a user makes a change to the database, that change should be immediately available for display and use.

**Links to Zoom, YouTube, Scholarship sites, and Social Media:** Hosting some of the site's more memory intensive features offsite will speed up the site, and having external links will make it more attractive to search engines. Easy sharing on other sites also increases publicity for the site. Zoom links require an existing meeting and prior permissions. Access to social media, preferably, does not require a user log in when clicking the link, but user log in may be required.

**Meta Data:** The site will have keywords and meta data in the code to make it easier to find and improve its search results.

## **Software Design:**

### **User Stories:**

**\* See Appendix for User Story Details**



User Story US01: As a user, I want to log into the site so that I can access the site.\*

User Story US02: As a user, I want to search for blogs so that I can read them.\*

User Story US03: As a user, I want to attend a STEM workshop so that I can learn and meet STEM professionals.\*

User Story US04: As a user, I want select an old webinar videos so that I can watch it.\*

User Story US05: As a user, I want to customize my user profile and add a resume.\*

User Story US06: As a user, I want to post a question in the forum so that people can respond with answers to my question.\*

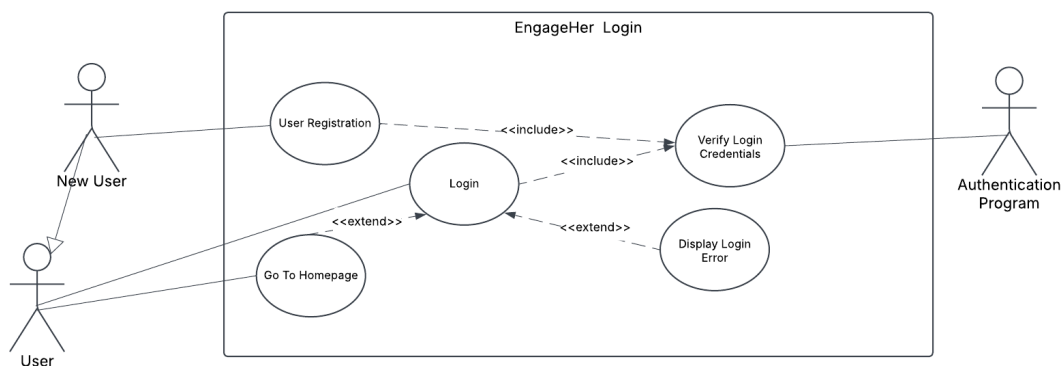
User Story US07: As a user, I want to know what the privacy policy is so that I can better protect my personal data.\*

User Story US08: As a user, I want to use the help file so that I can look up the answer to my question.\*

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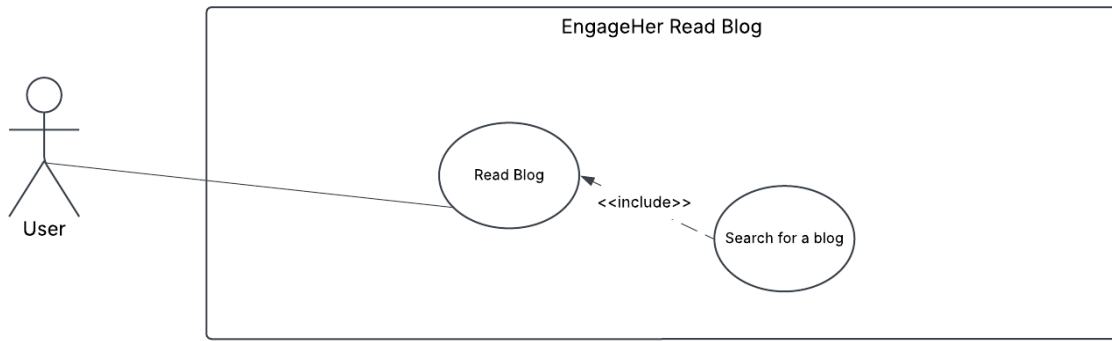
## Use Case Diagrams:

### User Login:

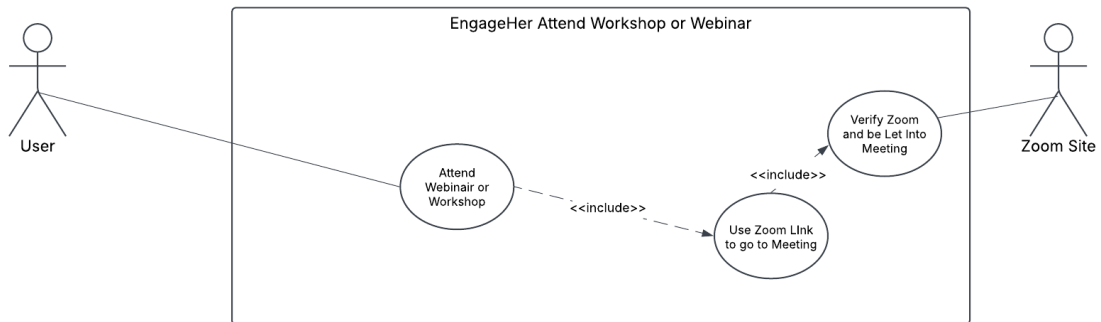



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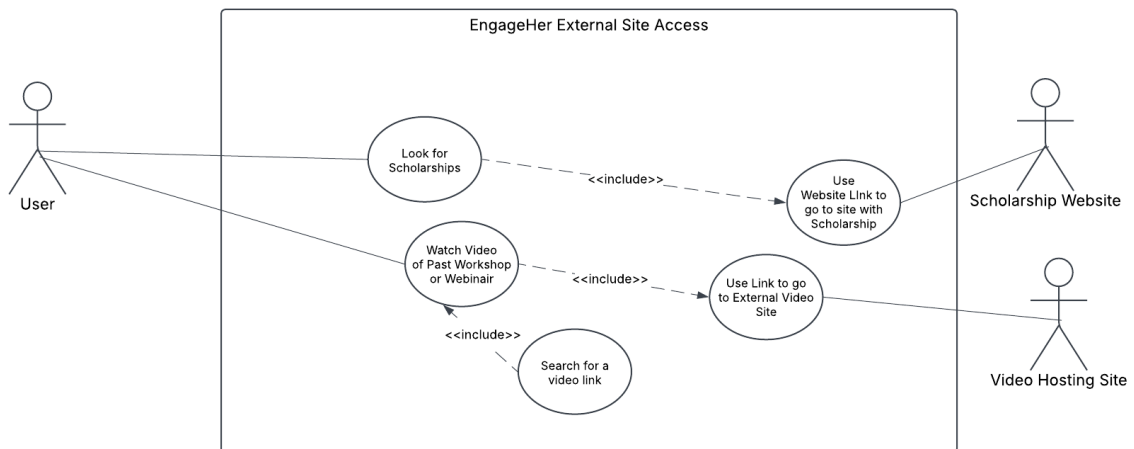
### Read Blog:



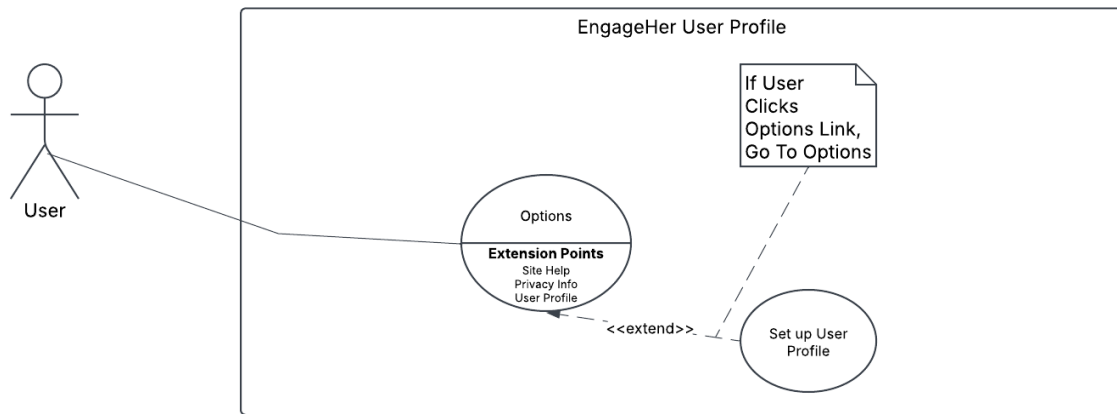
### Attend Webinar or Workshop:



### Use Video or Scholarship Link:

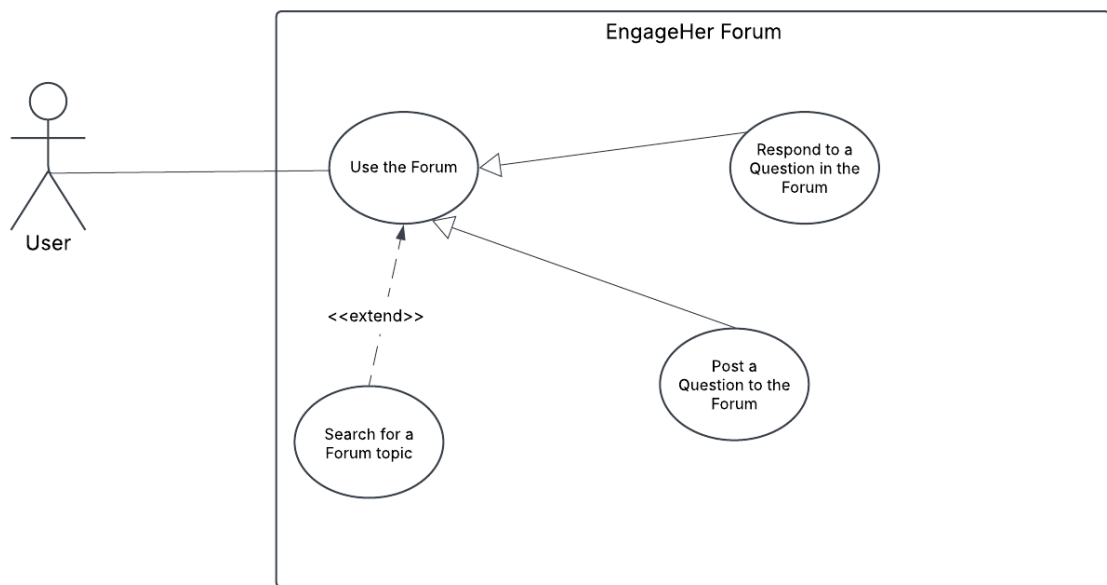


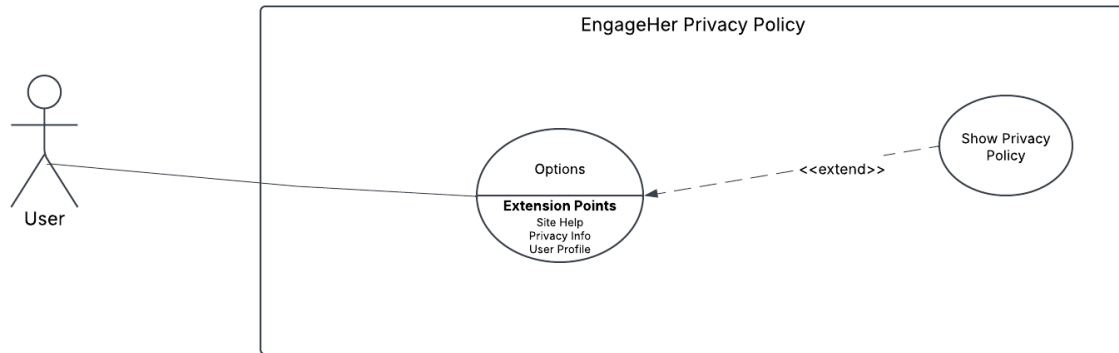
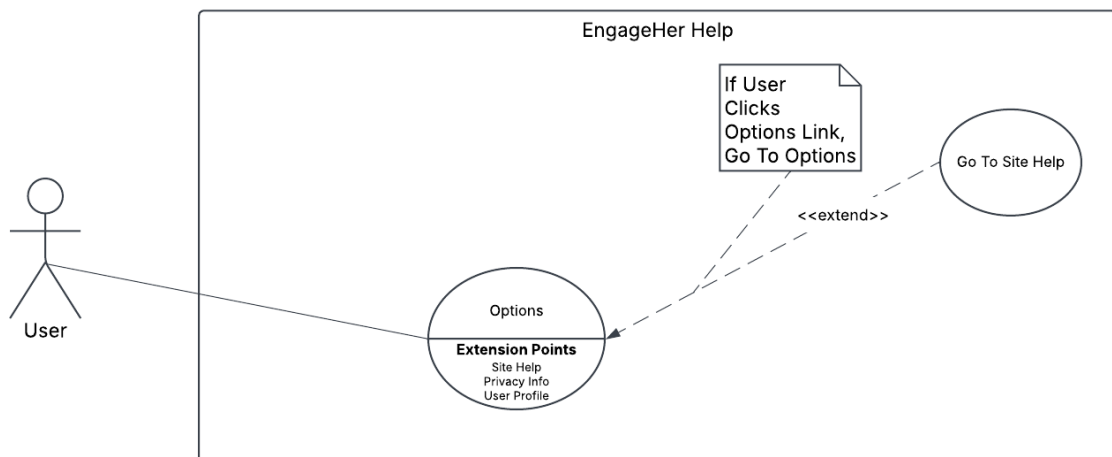
### Update User Profile:



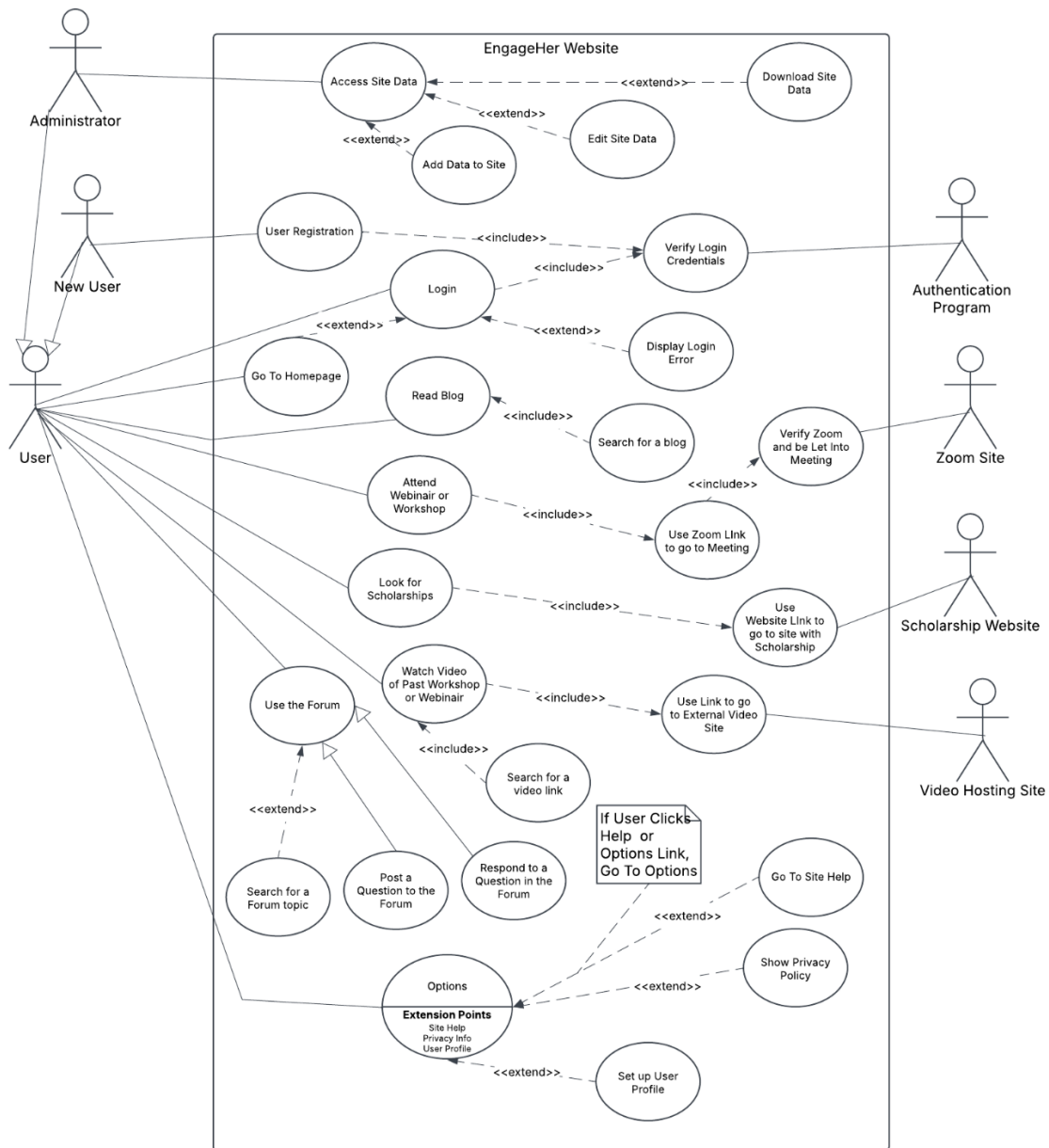
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### Use the Forum:



**Read Privacy Policy:****Use Help:**

## Website Use Case Diagram:

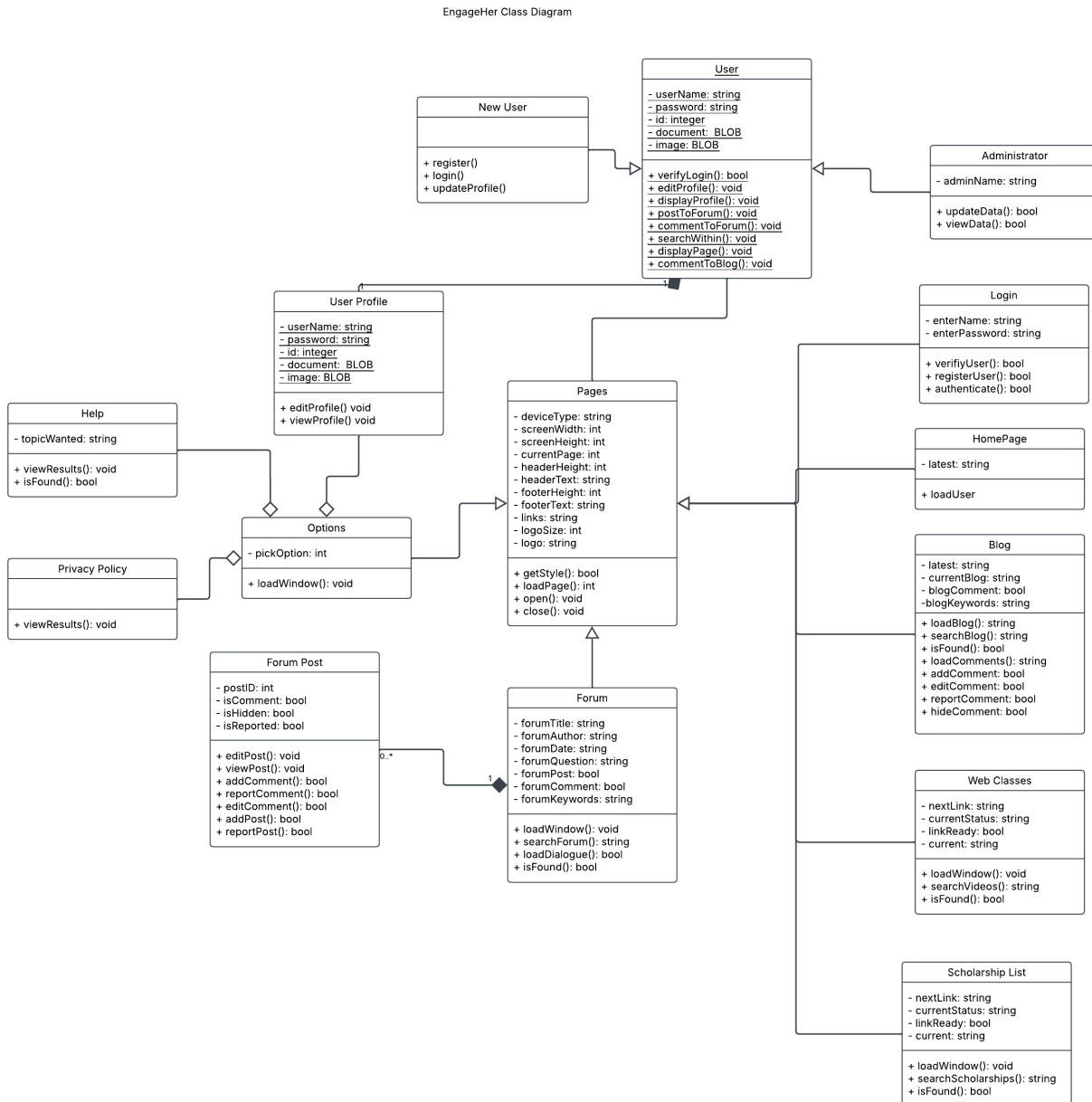


### Traceability Matrix for the EngageHer Site

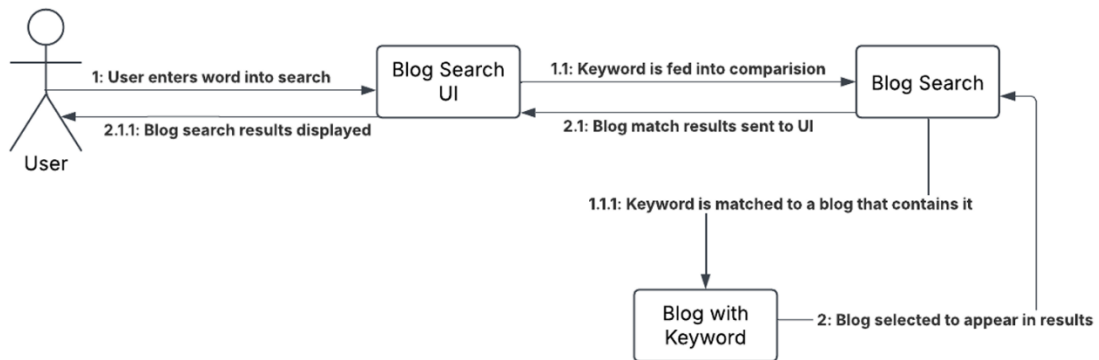
<b>Functional Requirements</b>	<b>User Story ID</b>	<b>Use Case ID</b>	<b>Description</b>	<b>Test Case</b>
Login	US01	UC01	Allows user to login or create an account	TC01
Use Blog	US02	UC02	Allows user to search for and read blog	TC02
Attend Workshop or Webinar	US03	UC03	Allows users to go to Zoom meetings	TC03
Go to Video or External Link	US04	UC04	Allows user to go to YouTube to watch videos or external scholarship sites	TC04
Post and Respond to Forum	US05	UC05	Allows user to post on the forum and respond to posts	TC05
Get Help	US06	UC06	Find help topics and contact admin for help	TC06
Read Privacy	US07	UC07	Read the privacy policy	TC07
Update User Profile	US08	UC08	Update user profile with personal and professional data	TC08

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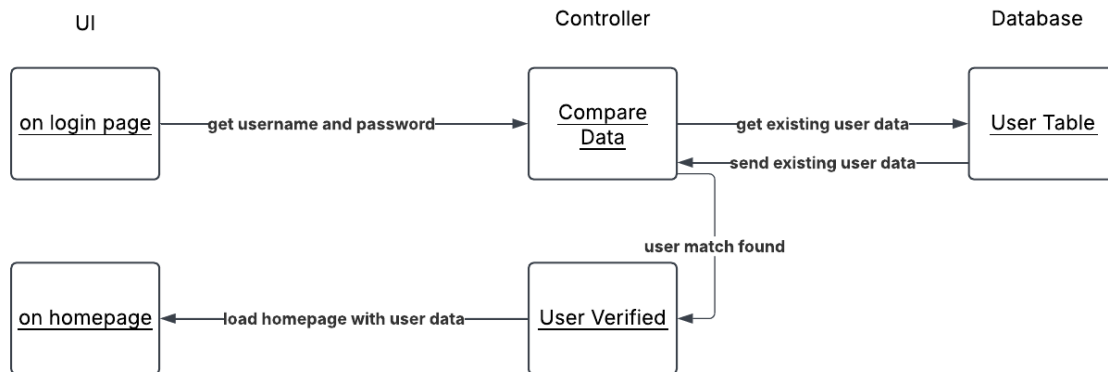
### Class Diagram:



### Collaboration Diagram:

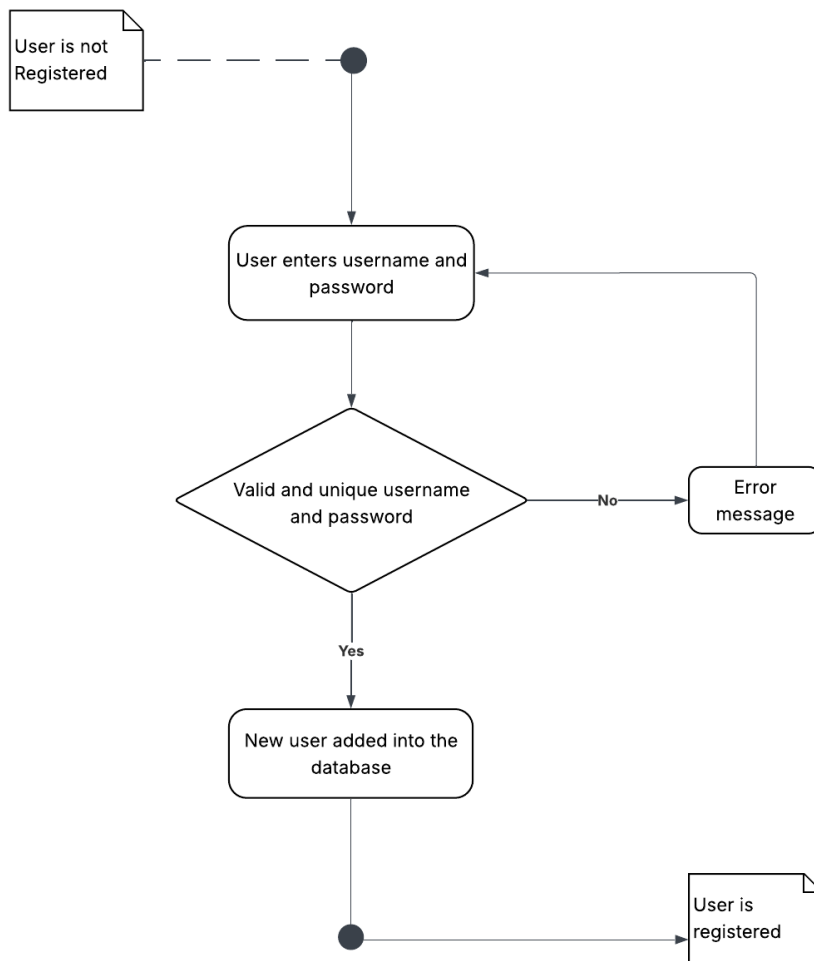


### Sequence Diagram:



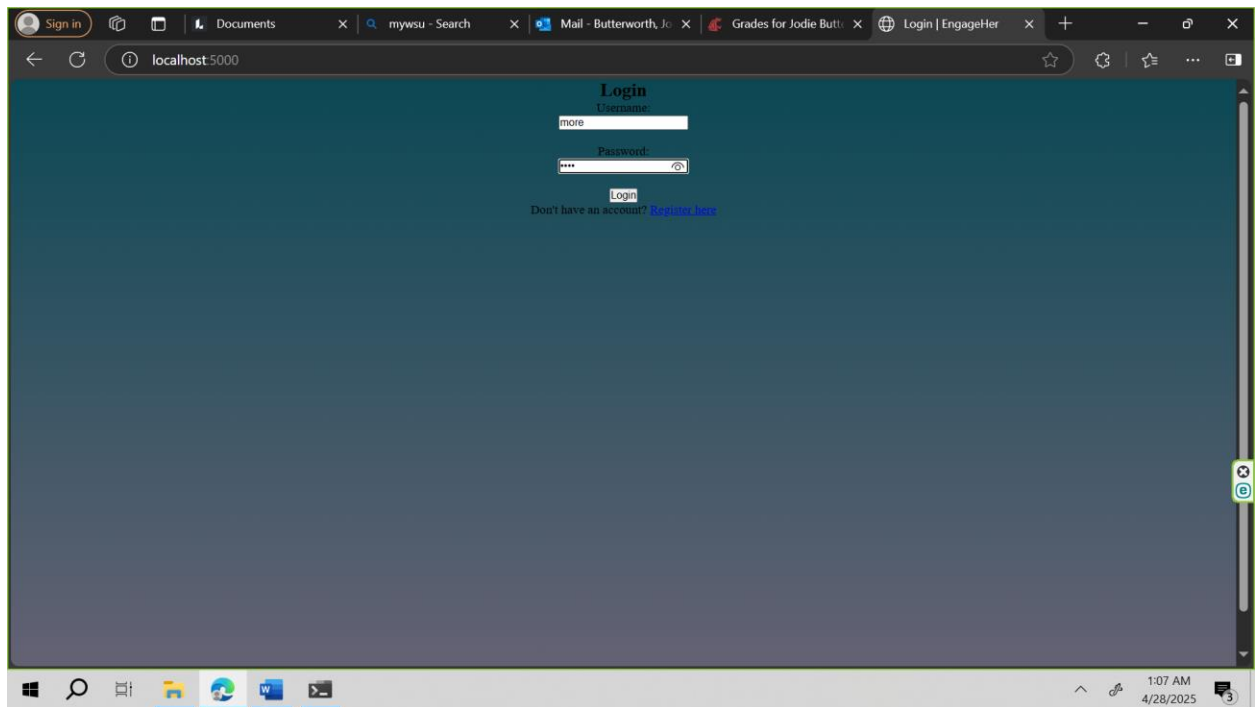
### Activity Diagram:



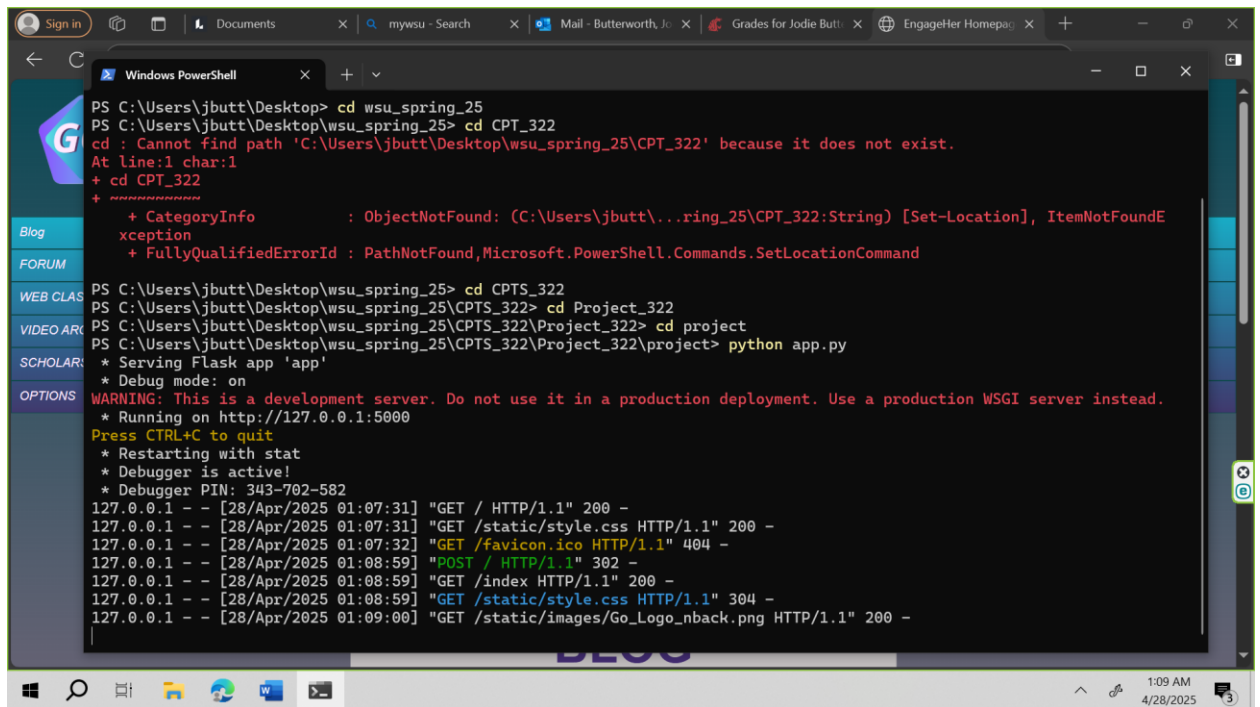


### **Feature Implementation:**

**Login:** The login page for the website. A registered user enters their username and password to proceed to the homepage. Unregistered users can click on the registration button to go to the registration page. The user data entered at the login is compared to the data for users in the database.

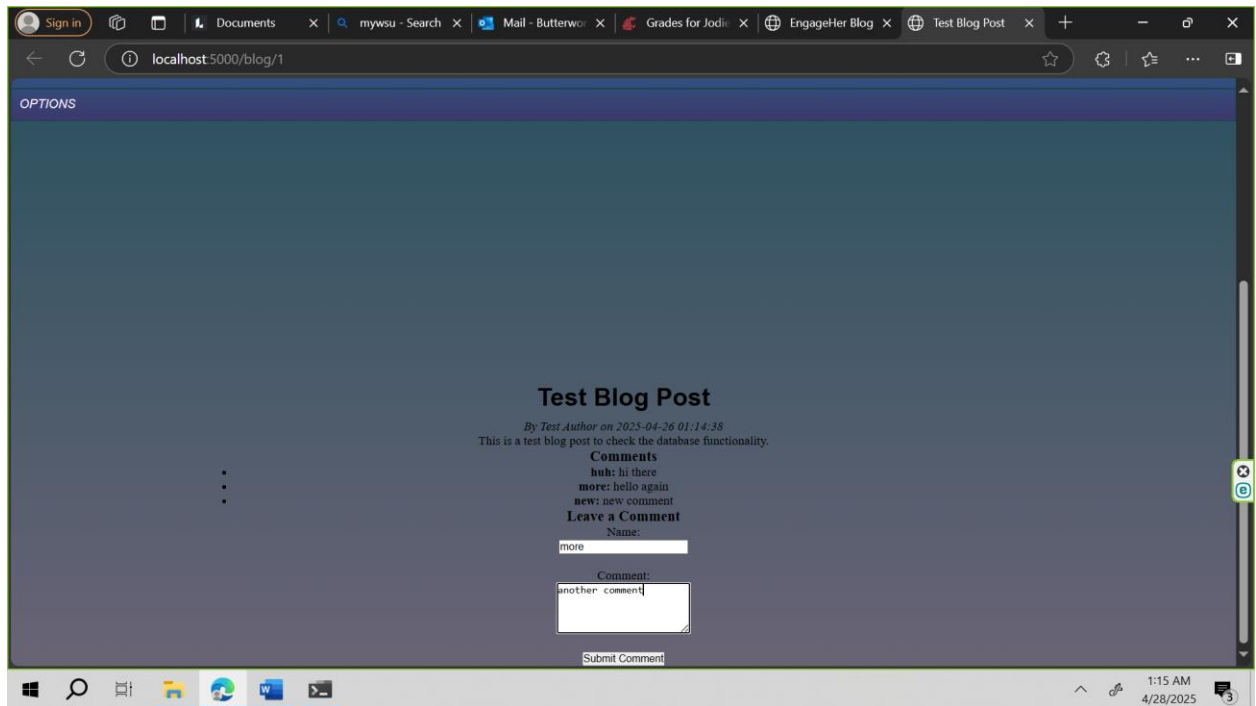


Entering a registered user.

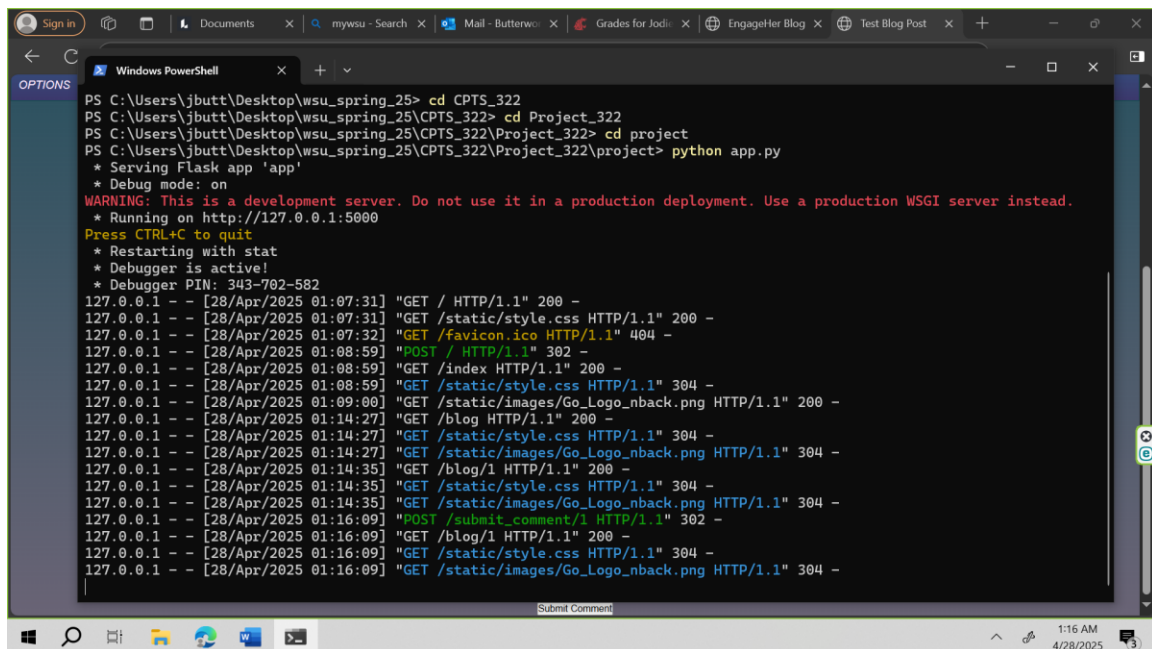


Terminal after a successful login.

**Blog:** The blogs are submitted by mentors and STEM professionals and must be approved by the site administrators before posting. However, users can leave comments on the blog posts. The blog has its own table in the database. A specific blog is pulled from the database and displayed in its own tab after clicking on it.

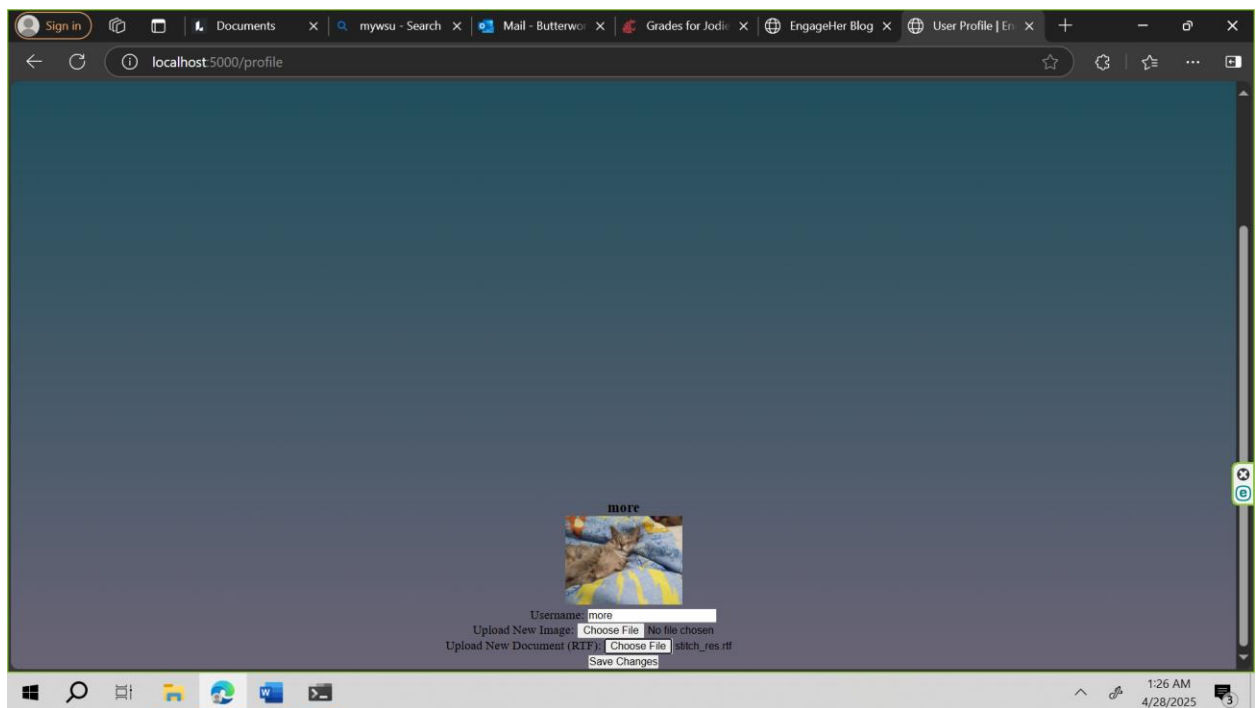


On the Blog Post Page, adding a comment to the blog.



The terminal after submitting a comment to the blog post.

**User Profile:** The username and password in the user profile is used for the login. The user profile page displays the user data from the database. The user can edit these fields and add an rtf document and png, bmp or jpeg image by going to the options tab and selecting user profile. The fields are updated in the database upon submit.



Displaying the current user data and adding a rtf document.

```

127.0.0.1 - - [28/Apr/2025 01:14:27] "GET /blog HTTP/1.1" 200 -
127.0.0.1 - - [28/Apr/2025 01:14:27] "GET /static/style.css HTTP/1.1" 304 -
127.0.0.1 - - [28/Apr/2025 01:14:27] "GET /static/images/Go_Logo_nback.png HTTP/1.1" 304 -
127.0.0.1 - - [28/Apr/2025 01:14:35] "GET /blog/1 HTTP/1.1" 200 -
127.0.0.1 - - [28/Apr/2025 01:14:35] "GET /static/style.css HTTP/1.1" 304 -
127.0.0.1 - - [28/Apr/2025 01:14:35] "GET /static/images/Go_Logo_nback.png HTTP/1.1" 304 -
127.0.0.1 - - [28/Apr/2025 01:16:09] "POST /submit_comment/1 HTTP/1.1" 302 -
127.0.0.1 - - [28/Apr/2025 01:16:09] "GET /blog/1 HTTP/1.1" 200 -
127.0.0.1 - - [28/Apr/2025 01:16:09] "GET /static/style.css HTTP/1.1" 304 -
127.0.0.1 - - [28/Apr/2025 01:16:09] "GET /static/images/Go_Logo_nback.png HTTP/1.1" 304 -
127.0.0.1 - - [28/Apr/2025 01:22:21] "GET /classes HTTP/1.1" 200 -
127.0.0.1 - - [28/Apr/2025 01:22:21] "GET /static/style.css HTTP/1.1" 304 -
127.0.0.1 - - [28/Apr/2025 01:22:21] "GET /static/images/Go_Logo_nback.png HTTP/1.1" 304 -
127.0.0.1 - - [28/Apr/2025 01:22:26] "GET /archive HTTP/1.1" 200 -
127.0.0.1 - - [28/Apr/2025 01:22:27] "GET /static/style.css HTTP/1.1" 304 -
127.0.0.1 - - [28/Apr/2025 01:22:27] "GET /static/images/Go_Logo_nback.png HTTP/1.1" 304 -
127.0.0.1 - - [28/Apr/2025 01:22:39] "GET /scholarships HTTP/1.1" 200 -
127.0.0.1 - - [28/Apr/2025 01:22:39] "GET /static/style.css HTTP/1.1" 304 -
127.0.0.1 - - [28/Apr/2025 01:22:39] "GET /static/images/Go_Logo_nback.png HTTP/1.1" 304 -
127.0.0.1 - - [28/Apr/2025 01:22:43] "GET /options HTTP/1.1" 200 -
127.0.0.1 - - [28/Apr/2025 01:22:43] "GET /static/style.css HTTP/1.1" 304 -
127.0.0.1 - - [28/Apr/2025 01:22:43] "GET /static/images/Go_Logo_nback.png HTTP/1.1" 304 -
127.0.0.1 - - [28/Apr/2025 01:22:47] "GET /profile HTTP/1.1" 200 -
127.0.0.1 - - [28/Apr/2025 01:22:47] "GET /static/style.css HTTP/1.1" 304 -
127.0.0.1 - - [28/Apr/2025 01:22:47] "GET /static/images/Go_Logo_nback.png HTTP/1.1" 304 -
127.0.0.1 - - [28/Apr/2025 01:27:01] "POST /edit_user/5 HTTP/1.1" 302 -
127.0.0.1 - - [28/Apr/2025 01:27:01] "GET /profile HTTP/1.1" 200 -
127.0.0.1 - - [28/Apr/2025 01:27:01] "GET /static/style.css HTTP/1.1" 304 -
127.0.0.1 - - [28/Apr/2025 01:27:01] "GET /static/images/Go_Logo_nback.png HTTP/1.1" 304 -

```

Terminal after adding the document to the user database.

The website uses HTML and CSS for the UI. It uses python with Flask to process actions and connect to the database. The database is SQLite. This is an example of MVC pattern architecture. It can be hosted online and accessed by most devices with internet access. It could also be modified to become a downloadable app. This project does not have the security necessary for deployment as of writing this. The different pages in the webpage provide the features for the site.

## **Testing:**

### **Testing Methodology:**

Utilized manual, integrated testing of features. As the site was being developed, the new feature would be added, and the site would be run on <http://localhost:5000/>, and the new feature would be tested.

### **Test Cases:**

TC01 – Login to the Site

- Test Objective: Verify that users can log into the site
- Test Steps:
  1. Go to the login page
  2. Enter the user information and submit
- Expected Result: User logs into the site and goes to the homepage
- Test Status: Pass/Fail

#### TC02 – Use the Blog

- Test Objective: Verify that users can use the blog
- Test Steps:
  1. Go to the blog page
  2. Click on a blog post
- Expected Result: Blog post displayed and user can read it
- Test Status: Pass/Fail

#### TC03 – Use the Zoom-based Workshops and Webinars

- Test Objective: Verify that users can access the zoom meetings from the list
- Test Steps:
  1. Go to the workshop page and the webinar page, once each
  2. Click on a link on each page
- Expected Result: zoom meeting should open in new window
- Test Status: Pass/Fail

#### TC04 – Use the External Links to YouTube Videos and Scholarship Pages

- Test Objective: Verify that users can use the links to old webinars and workshops and scholarship sites from the links provided

- Test Steps:

1. Go to the archived video page and the scholarship page, once each
2. Click on a link to the external site

- Expected Result: YouTube video or scholarship site opens in new window, respectively

- Test Status: Pass/Fail

#### TC05 – Update User Information

- Test Objective: Verify that users can update their personal profile

- Test Steps:

1. Go to the options feature on the site
2. Click on the profile option
3. Edit or add user details, making sure username and password are filled in
4. Click submit

- Expected Result: The user profile information is updated and displayed

- Test Status: Pass/Fail

#### TC06 – Use the Forum

- Test Objective: Verify that users can post to the forum

- Test Steps:

1. Go to the forum page
2. Click on the create a post option
3. Fill in the forum data on the forum post creation page
4. Click the submit button

- Expected Result: Forum post is created and displayed on the forum page

- Test Status: Pass/Fail

#### TC07 – Read the Privacy Policy

- Test Objective: Verify that users can read the privacy policy

- Test Steps:

1. Click on the options feature on the site

2. Select to view the privacy policy

- Expected Result: Privacy policy is displayed and users can read it

- Test Status: Pass/Fail

#### TC08 – Use the Help

- Test Objective: Verify that users can use the help option

- Test Steps:

1. Go to the help page

2. Search for a known help topic

- Expected Result: Help topic search results are displayed

- Test Status: Pass/Fail

Note: Never tested Zoom link as that requires an authorized and current zoom meeting. Test data used in all the tests, not real STEM data. Searching function not operational. There may be a conflict between the blog and forum tables in the database.

#### **Limitations & Future Scope:**

I experienced time difficulties this entire project. It is a large project and I am doing it alone. I also had multiple personal problems that interfered with my assignments this semester.

As I added to the back-end, the front-end became increasingly distorted. I did not have time to improve the UI appearance, and it needs modifications before it can be released.



The search feature has proven temperamental as it will work, and then break when an unrelated change is made to app.py or a table is added into the database. This may be due to interference, but I have not been able to confirm that.

The zoom links are not operational as authorized access to a ready zoom meeting is needed.

The security on the site is non-existent. I focused on adding functionality, and ran out of time to make the data and the processes sufficiently secure for web deployment. The site must have increased security before it can be launched.

Just a couple days before the final project deadline, I had an idea to make a char feed, similar to a social media site, where users can post recent events, comment on the recent events of others and show their profile and there resume easily to other users. Sadly, it was too late to add any more features. Links to existing social media sites were also not added.

In terms of technical limitations, I think the Flask python used would probably need to be replaced for security reasons, but it would be a stakeholder decision how the configuration would change. I need to know if this site is cloud-based, web server-based, downloadable app-based, or a combination of all of the above.

With more time, the necessary improvements are security and UI improvement. I would need more information to deploy this site or app. For the first launch, a few STEM blogs, forum questions and workshops should be set up in advance. The users are responsible for generating the lion's share of the content on the site.

### **Conclusion:**

I used ChatGPT in the coding of the website. While I doubt that people will really believe me, this was the first time I used AI for a major coding project. While it is certainly a fast way to write code, the AI makes frequent errors. I spent as much time troubleshooting as I did making the site. For AI projects, constant testing is a must after every change. It is also necessary to be very specific with what you want, as the AI is prone to odd and vague results.

In terms of time management, I probably should have chosen a smaller project if I wanted to work alone. I did have several small disasters come at me from left field this semester. It is to

the point that I should be collecting evidence. There's a limit to how much coincidence can account for. Pullman may be too evil, threatening and manipulative a place for me and my son to thrive and excel in our studies. I mention my son because he had a terrible semester too. The only fix for this is to start earlier and hope that whatever damage is done, it doesn't eat up so much time that the project can't be fully recovered or completed.

I accomplished most of my project goals by focusing on coding and functionality of the site. I was not able to complete everything, and the site would need further edits before it could be deployed. I had to abandon, as much as possible, the paperwork and organization aspects of the project as I didn't have the time, and frankly, I don't have anyone to share data with or go to a meeting with. Often the project management aspects were either impractical or just didn't apply to a group of one.

I did find the full website Use Case Diagram very useful and often referred to it. It was, by far, the most useful diagram for me. The KanBan Board was not that useful. In a one person project, it simply became an exercise because there was no one that I needed to coordinate the work with. The most useful tool was ChatGPT, though it requires guidance, testing and constant checking. I would like to use ChatGPT more in my future coding. I would also like to improve my testing methods, because ChatGPT needs good and constant testing. The best concepts came at the end with the blog on the different architecture patterns. I would like to see that assignment moved to the beginning of the class.

**References:**

- [1] S. Montoya. “New UIS data show that the share of women in STEM graduates stagnant for 10 years.” UNESCO. <https://world-education-blog.org/2024/04/25/new-uis-data-show-that-the-share-of-women-in-stem-graduates-stagnant-for-10-years/> (accessed February 28, 2025).
- [2] E. Corbett, J. Barnett, L. Yeomans, and L. Blackwood. “ ‘That’s just the way it is’: bullying and harassment in STEM academia.” International Journal of STEM Education. <https://stemeducationjournal.springeropen.com/articles/10.1186/s40594-024-00486-3> (accessed February 28, 2025).

**Appendix:****User Story Details:**User Story US01:Scenario: Successful login:

Given that I am on the login page  
And I have already registered for the site  
When I enter my email or username and password  
Then I should log in successfully  
And I should go to the homepage

Scenario: Unsuccessful login:

Given that I am on the login page  
When I enter my email or username and password  
Then I don't log into the site  
And I stay on the login page

Scenario: New user login:

Given that I am on the login page  
When I click on the new user option  
And I enter my data into the text boxes  
And I verify my data offsite  
Then I am verified to enter the site  
And I return the login page  
And I can enter my user data

User Story US02:Scenario: Find a Blog to Read:

Given that I am on the blog page  
And I want to find a blog on a topic  
When I enter my keyword into the search bar  
And I click to search  
Then the page displays blogs that match the search  
And I can click on a blog and read it

Scenario: Blog Search Returns Nothing:

Given that I am on the blog page  
And I want to find a blog on a topic  
When I enter my keyword into the search bar  
And I click to search  
Then the page displays a message saying that no blogs match the search

User Story US03:Scenario: Attend a Workshop Listed on the Site:

Given that I am on the workshop page  
And I want to go to a featured workshop on the link list  
When I click the link  
Then the page displays the zoom meeting in a new window  
And the site stays open

Scenario: Workshop Search Returns Nothing:

Given that I am on the workshop page

And I want to go to a featured workshop on the link list

When I click the link

Then an error message displays saying that it is not time for the meeting

And the page stays open

#### User Story US04:

##### Scenario: Find a Link for a Particular Video:

Given that I am on the past webinar and workshop page

And I want to find a particular video

When I enter my keyword into the search bar

And I click to search

Then the page displays video descriptions with links that match the search

And I can click on a link to open the video on YouTube in a new window

And the site stays open

##### Scenario: Video Search Returns Nothing:

Given that I am on the past webinar and workshop page

And I want to find a particular video

When I enter my keyword into the search bar

And I click to search

Then the page displays an error message that no videos match the search

#### User Story US05:

Scenario: Successfully Updating Profile with Resume:

Given that I am on the user profile dialogue box

And I want to update my user data

When I enter my new data into the text boxes and fields

And I add my resume to the profile

And I click to submit

And it displays the changes on the user profile page

Scenario: Unsuccessfully Updating Profile with Resume:

Given that I am on the user profile dialogue box

And I want to update my user data

When I enter my new data into the text boxes and fields

And I add my resume to the profile

And I click to submit

Then the site displays an error message saying that the data is incompatible or incomplete

And it displays the profile settings with indications of where the error is

Scenario: Deleting Unnecessary Profile with Resume:

Given that I am on the user profile dialogue box

And I want to delete my user data

When I delete all the data in the text boxes and fields

And I click to submit

Then the site displays an error message saying that the mandatory fields are empty

And it displays the profile settings with indications of where the error is

And I fill in the mandatory fields

And I click submit

And it displays the changes on the user profile page

#### User Story US06:

##### Scenario: Successfully Posting a Question to the Forum:

Given that I am on the forum page

And I want to post a forum question

When I click on the feature to add a post to the forum

Then a page with user information and a text box for the question appears

And I enter my question and data into the fields

And I click to submit

And my page is displayed on the forum as the most recent entry

##### Scenario: Unsuccessfully Posting a Question to the Forum:

Given that I am on the forum page

And I want to post a forum question

When I click on the feature to add a post to the forum

Then a page with user information and a text box for the question appears

And I enter my question and data into the fields

And I click to submit

And an error page is displayed with the incompatible or empty data identified

And the forum is not posted with the bad data

#### User Story US07:



Scenario: Successfully Viewing the Privacy Policy:

Given that I am logged into the site  
And I want to view the privacy policy  
When I click on the options feature  
And I select the privacy policy  
Then a page with the privacy policy displays

Scenario: Unsuccessfully Viewing the Privacy Policy:

Given that I am logged into the site  
And I want to view the privacy policy  
When I click on the options feature  
And I select the privacy policy  
Then a page with an error message displays with a link  
And I click on the link  
And the privacy policy opens in a new window from a different source  
And the site remains open

User Story US08:Scenario: Successfully Finding the Help Topic:

Given that I am logged into the site  
And I want to view the help topics  
When I click on the options feature  
And I select the help option  
Then a page with the most common help topics displays

And I select the help topic that I want and read it

Scenario: Unsuccessfully Finding the Help Topic:

Given that I am logged into the site

And I want to view the help topics

When I click on the options feature

And I select the help option

Then a page with the most common help topics displays

And the help topic that I want is not listed

Scenario: Contacting the Admin for Support:

Given that I am logged into the site

And I want to view the help topics

When I click on the options feature

And I select the help option

Then a page with the most common help topics displays

And I click the option for admin support

And a dialogue box opens to send a message to the admin

And I write my problem to the admin

And I hit send

And the help message is sent to the admin