The ultimate objective of our website is to provide an interface that efficiently combines a user's content from different media sites into one place.

Functional Requirements

1. The system shall allow users to create accounts.

1.1. Accounts are required to subscribe to or create channels.

1.2. All accounts shall be protected by a password.

1.2.1. A user shall be able to change their account's password at any time.

1.3. An account shall be capable of owning multiple content channels.

1.4 An account shall be capable of subscribing to multiple channels

1.4.1. A user shall be able to unsubscribe from subscriptions at any time.

2. A channel shall be a feed of user populated media content.

2.1. A channel page shall automatically be created for each channel.

2.1.1. A user shall be able to associate banners to each channel page.

2.2. A user shall be able to add content by linking to the content's source

2.2.1. The system must be compatible with the client's requested sites and content.

2.2.1.1. Including but not limited to YouTube.

2.2.1.2. More media sites can be implemented when needed.

2.3. User content shall have tags indicating what subject matter the media is related to.

2.3.1. Tags shall be used in search functions and potentially for recommendations.

3. A user's home page shall consist of the media content of subscribed channels.

3.1. All subscribed posts shall be listed vertically.

3.2. Media content from an external source shall have a link to the original source (such as YouTube).

3.3. Media content shall have some indication of the channel that owns it.

3.3.1. The channel's name and/or profile shall be displayed on the user's feed near the media content.

4. The site shall be able to search for channels and media content.

4.1. The basic search option shall be visible from the home page.

4.2. The search function's criteria shall be able to consist of tags, user names, or channel names.

5. The site shall provide users with options to share their channels or media content.

5.1. HTML code to be posted on a user's side shall be generated for channels and media content.

6. The site shall be capable of recommending other channels to the user based on the user's preferred tags.

6.1. Preferred tags shall come from on the user's subscribed channels' tags.

7. The site shall have an administrator interface.

7.1. The administrator shall have access to the database.

7.1.1. The administrator shall be able to delete or add accounts.

7.1.2. The administrator shall be allowed to add, edit, or delete tags.

8. The site's database requirements are as follows:

(table list with columns)

Nonfunctional Requirements

The website's functions shall be optimized for an audience ages 40 and up; many overwhelming functions in other forms of social media can be excluded for a simplified interface consisting of only what is required.

1. Creating an account will be simple.

1.1. Creating an account shall require minimal information.

1.2. Subscribing to a channel shall require one click.

1.3. Posting media content shall be concise.

1.3.1. Posting media content shall only require a URL link to the content's page.

2. Viewing media content shall be simple.

2.1. The center feed shall only consist of the user's desired media content, as opposed to combining recommendations and advertisements.

2.1.2. Should extra content be desired, it shall be placed above or to the sides of the center feed.

3. Information shall be secure.

3.1. The users shall have access to their own information.

3.1.1. Besides the initial user, only administrators shall have access to that user's information.

3.1.2. User information shall never be shared.

3.2. The site shall be coded in a manner that minds possible security breaches.

4. The project shall follow the minimal budget allotment indicated.

4.1. The team coding the websites will require no additional software finances. All software used shall either be free or in possession prior to the project.

4.1.1. The Django framework shall be used to create the database, as well as access the content from a coding level.

4.2. The final domain name shall require minimal funding to obtain.

5. The project shall require a database and a server.

5.1. The initial database shall be created using SQLite, and shall be implemented on a different system for the final project.

5.2. The data shall be accessed using Django and its built-in administrator interface.

5.3. The database shall be hosted on Amazon's web server.

6. The site shall be debugged extensively before deployment.