# 1. Functionality:

- 1.1. USER PROFILE FUNCTIONAL FEATURE CHOSEN BY TEAM Implemented in prototype
  - 1.1.1. Users can view their own profile and other users' profiles Validation: Functional feature chosen by the team

    Verify by: Viewing user profile
    - 1.1.1.1. User's own profiles will display notifications for the users (ie. notifying them of threads they have subscribed to)

      Validation:Functional feature chosen by the team

      Verify by: Displaying notifications for the current user
    - 1.1.1.2. User's own profiles will display and link groups they are a member of Validation:Functional feature chosen by the team

Verify by: Displaying and linking groups the current user is a member of

1.1.1.3. User's own profiles will display and link topics they are subscribed to.

Validation:Functional feature chosen by the team Verify by: Subscribed topics are displayed and linked on the current user's profile

1.1.1.4. User's own profiles and other user's profiles will display comments and topics the user has created.
Validation:Functional feature chosen by the team
Verify by: Display and linking topics and comments the user has created

1.1.1.5. Users can search usernames to find a user's profile Validation:Functional feature chosen by the team Verify by: Searching for a username.

#### **1.2. USER AUTHENTICATION** - *Implemented in prototype*

1.2.1. Users are able to register for an account, providing a username, password, and email

Validation: Clear implication from project requirements Verify by: Registering using user's credentials

1.2.2. Users are able to authenticate by providing a username and password that is validated by the application

Validation: Clear implication from project requirements
Verify by: Logging in using credentials that were provided in registration

1.2.2.1. Users must authenticate before viewing application web pages other than the sign in and registration page (e.g. unauthenticated users cannot view topics)

Validation: Clear implication from project requirements

Verify by: Logging in using credentials that were provided in registration

1.2.2.2. Users are able to logout, ending their authenticated session Validation: Clear implication from project requirements

Verify by: Ability to logout

### **1.3. TOPICS AND COMMENTS** - *Implemented in prototype*

1.3.1. Authenticated users can create topic threads

Validation:Clear implication from project requirements

Verify by: Creating or editing a topic or commenting on an existing topic.

- 1.3.1.1. Users are able to give the topic a title and a body.

  Validation:Clear implication from project requirements

  Verify by: Creating a new topic with supplied title and body
- 1.3.1.2. Users are able to comment on an existing topic Validation: Clear implication from project requirements Verify by: Commenting on an existing topic
  - 1.3.1.2.1. Users are able to edit their own comments
  - 1.3.1.2.2. Validation: Clear implication from project requirements

    Verify by: Ability to edit a comment that a user is the author

    of
- 1.3.1.3. Users are able to edit the title and body of topic threads they have created

Validation: Clear implication from project requirements Verify by: Ability to edit a topic that a user is the author of

### 1.4. USER SUBSCRIPTION AND NOTIFICATIONS - Implemented in prototype

1.4.1. Users can subscribe to a topic

Validation: Clear implication from project requirements Verify by: Subscribing to a topic

- 1.4.1.1. Users are notified of new posts on topics they are subscribed to Validation:Clear implication from project requirements

  Verify by: Receiving notification after new comment on subscribed threads
- 1.4.1.2. Users can unsubscribe to a topic

  Validation:Clear implication from project requirements

  Verify by: Unsubscribing to a topic
- 1.4.1.3. Users are automatically subscribed to topics they create Validation:Clear implication from project requirements

  Verify by: Topic is added to author user's subscriptions after creation

# **1.5**. **GROUPS** - *Implemented in prototype*

- 1.5.1. Users will have the ability to create groups, supplying a group name Validation: Clear implication from project requirements

  Verify by: Creating a group with required details.
  - 1.5.1.1. A user that is a member of a group is able to add other users to the group

    Validation: Clear implication from project requirements

    Verify by: Add a member to a group
  - 1.5.1.2. Users can search other users by username for purposes of adding them to a group

    Validation: Clear implication from project requirements

    Verify by: Searching for a user using their username.
  - 1.5.1.3. Users can create discussion threads in groups they are a member of that are only accessible by members of that group Validation:Clear implication from project requirements

    Verify by: Creating a topic in a group
  - 1.5.1.4. Users can leave groups they are a member of Validation: Clear implication from project requirements Verify by: Leaving a group the user is a part of.
- 2. **Usability** *Implemented in prototype* 
  - 2.1. The application will utilize Bootstrap for its design Validation: Need for a user friendly design Verify by: Bootstrap library used for html design
- 3. **Reliability** *Implemented in prototype* 
  - 3.1. The application will utilize a database for its persistence model Validation: Need to persist and maintain data

    Verify by: Data is stored in a database
- 4. **Performance** *Implemented in prototype*
- 5. **Supportability** *Implemented in prototype* 
  - 5.1. The application will utilize a database interface (databasemanager.py)

    Validation: Clear implication from design requirements

    Verify by: Utilization of interface for database functions
  - 5.2. The application will utilize SQLAlchemy for its back end database Validation: Need to persist and maintain data

    Verify by: SQL Alchemy used for database