Expertiza
E5: Message Board

Currently in Expertiza:

Currently Expertiza do not support any message board facility where students can post their questions and other students can answer them.

Link to Audio description for this project:

http://courses.ncsu.edu/csc517/common/homework/OSS/Expertiza_audio_files/E5.mp3

Features our project adds in Expertiza:

1. Any logged-in person can post on message board.
2. Any logged-in person can reply to post but not to reply.
3. Any logged-in user can cheer or uncheer any post or reply written by other people
4. Message board is maintained in a hierarchy as shown below,

   > Message board has topics
   > Each topic has posts
   > Each post has number of replies (no reply to reply)
   > Topic lists all posts followed by all its replies.

5. With admin login user can delete any topics, post and reply.
6. Deleting any post or reply, deletes them from system permanently
7. Deleting topic directly will add all posts and replies in 'General' topic. (Extra)
8. Topic 'General' cannot be deleted from system. (Extra)
9. User who posts original post can select best replies for his post. (Extra)
10. Admin can view best replies or user participation either for particular topic or for whole message board which can be used for grading.
11. Admin has two more extra rights

    > 1. Admin can change any reply to original post in a topic by selecting check box against reply and click on 'Turn Replies into Posts' button.
    > 2. Admin can move post with all its replies from one topic to another by selecting post check box and topic name from drop down and then clicking on 'Move to Topic' button.

Plugin:

No any extra plugin is required to run this project.

1. Files in Model
   a. **cheer.rb -** Maintains list of all post-cheer person combinations
   b. **post_topic.rb -** Maintains list of all topics in messageboard
   c. **post -** Maintains details of each post and reply, as reply acts as post

2. Files in Controller
   a. **home_controller.rb -** Code for all functionalities in message board

3. Corresponding folders in View
   a. **Folder only for home_controller – with 11 files in home view. (home)**
      All possible views are covered in this list of view fles.

4. Migrations
   a. **add_tables_for_message_board.rb**
      Create tables cheer and post.
      (Have code for followers but functionality is not part of project scope. Have kept code as it is for future reference)
   b. **create_post_topics.rb**
      Create table post_topic
   c. **add_topic_id_column_to_posts_table.rb**
      Add column topic_id to post table
   d. **add_default_message_board_topic.rb**
      Add default topic 'General'
   e. **add_best_post_column_to_posts.rb**
      Add column best_post to post table

Instructions on how to test functionality:

1. **Pre:**

   1. Run command 'rake db:create'
   2. Run command 'rake db:migrate'
   3. Start server
   4. Log in as admin (password: admin)
   5. Go to administration > setup > controller/actions
   6. Click on 'home' controller from unknwon controllers' list and make it as new controlller with permission = ' public actions - execute'
   7. Go to administration > setup > menu editor
   8. Click on '+ icon against root to add new menu_item with following details
          name: messageboard
          label : MessageBoard
          controller/action: home
   9. Logout and Login admin/admin again.
   10. This sets up MessageBoard in menu bar. Click on this link which loads message board module of Expertiza.
   (ALTERNATIVE (for steps 7-10): direct url to 'http://localhost:3000/home/topic' after login.)
   11. From admin login add any user which can be used to check non-admin functionality.

2. **Topics Page- nonadmin**

Message board lists all the topics.

User can

Add new topic by writing new topic name in textbox available at right.

Search on topic list – searches on all topics, posts and replies

Clear search will populate original topic list again

User Cannot

Delete any topic (delete icon not shown at all)

3. **Within A Topic - nonadmin**

User can -

Write post in topic by writing new post in textbox available at right.

Reply to any original post

Cheer-Uncheer any post or reply

Search on posts

Select best reply for your own post by clicking on 'best tick' mark against each reply.

User cannot -

Cheer-Uncheer his own posts/replies (up and down arrows are disabled)

Reply to any reply

Delete any post/ reply

(no links for delete, reply to reply or cheer/uncheer for own post)

4. **Admin login**

Admin can do all possible things which nonadmin can do Following features are extra for admin

Admin can –

Delete topics

Delete Posts/Replies

Clicking on 'Grades for all topics' can show Total 'Best' replies by each user and total cheer , uncheer count for user which gets calculated for all posts and replies written by particular user

View 'Grades for this topic' shows same details as above but only for particular topic

Move post with all its replies to another topic by selecting post checkbox, select new topic name from drop down and click on button

Turn replies into original posts by selecting checkboxes for replies and click on button

Admin cannot –

Delete topic named 'General'

(delete icon is not present against General topic)

Thank You