­­Test Plan

Last Revision Date: 12/10/11

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1. Purpose

This test plan is to test a social networking platform for active people.

1. Unit Testing
   1. User Module: This module maintains all data manipulation of variables related to the current user.
      1. Equivalence classes:
         1. “first\_name”
            1. A string with length greater than or equal to 1 and less than 256 – Acceptable
            2. A string with length equal to 0 or greater than 256 – Error
         2. “last\_name”
            1. A string with length greater than or equal to 1 and less than 256 – Acceptable
            2. A string with length equal to 0 or greater than 256 – Error
         3. “street”
            1. A string with length greater than or equal to 1 and less than 256 – Acceptable
            2. A string with length equal to 0 or greater than 256 – Error
         4. “city”
            1. A string with length greater than or equal to 1 and less than 256 – Acceptable
            2. A string with length equal to 0 or greater than 256 – Error
      2. Checklist

[ ]: Login with correct username and password

[ ]: Login with wrong username  
[ ]: Login with wrong password  
[ ]: Login with wrong username, and password  
[ ]: Leave feedback for user  
[ ]: Change photo  
[ ]: Log out  
[ ]: View news feed  
[ ]: Register user  
[ ]: View user profile

[ ]: Edit personal information

* 1. Network Module: This module maintains all the networks in the database
     1. Equivalence classes
        1. “network\_id”:
           1. The database ID number corresponding to the appropriate network to be accessed – Acceptable
           2. The database ID number NOT corresponding to the appropriate network to be accessed - Error
        2. “area”:
           1. A string corresponding to a locale or neighborhood NOT already in the database – Acceptable
           2. A string corresponding to a locale or neighborhood already existing in the database - Error
     2. Checklist

[ ]: Create a new network

[ ]: Add a network to a user’s profile

[ ]: Ensure newly-added network displays correctly on user’s profile

[ ]: Ensure newly-added network displays correctly in user’s news feed

[ ]: Remove user from a network

[ ]: Ensure unsubscribed network no longer is displayed on user’s profile

[ ]: Ensure user no longer sees the network in his/her news feed

* 1. Subscription Module: This module maintains all of the subscriptions a user has
     1. Equivalence classes:
        1. “subscription\_id”
           1. A number generated by the database higher by one value than the last subscription\_id that was generated – Acceptable
           2. A number generated by the database less than or equal to the value of the last subscription\_id generated – Error
        2. “network\_id”
           1. The database ID number corresponding to the appropriate network to be accessed – Acceptable
           2. The database ID number NOT corresponding to the appropriate network to be accessed - Error
        3. “user\_id”
           1. The database ID number corresponding to the appropriate user to be accessed – Acceptable
           2. The database ID number NOT corresponding to the appropriate user to be accessed - Error
     2. Checklist

[ ]: Subscribe to a network

[ ]: Subscribe to an activity

[ ]: Unsubscribe from a network

[ ]: Unsubscribe from an activity

* 1. Activity Module: This module maintains all of the activities in the activities database
     1. Equivalence classes:
        1. “activity\_id”
           1. Any activity that the user who is created the ConnAction is in – Acceptable
           2. Any activity that the user who is created the ConnAction is not in – Error
     2. Checklist

[ ]: click Add new Activity button

[ ]: Try to add a new activity < 20 characters that does not exist in the activities table.

[ ]: Try to add a new activity that already exists in the activities table < 20 characters. (should result in an error message)

[ ]: Try to add an Activity that is greater than 20 characters. (Should result in an error message)

* 1. Event Module: This module maintains the events database
     1. Equivalence classes:
        1. “event\_id”
           1. A number generated by the database higher by one value than the last event\_id that was generated – Acceptable
           2. A number generated by the database less than or equal to the value of the last event\_id generated – Error
        2. “start\_date”
           1. A time that is equal to the current time or in the future – Acceptable
           2. A time that is in the past – Error
        3. “end\_date”
           1. A time that is equal to the current time or in the future – Acceptable
           2. A time that is in the past – Error
        4. “location”
           1. Any network that the user is created the ConnAction is in – Acceptable
           2. Any network that the user who is created the ConnAction is not in – Error
     2. Checklist

[ ]: Create event with valid start or end date

[ ]: Create event with invalid start or end date

[ ]: Create event in a valid location

[ ]: Create event in an invalid location

* 1. Message Module: This module maintains all data manipulation of variables related to messages.
     1. Equivalence classes:
        1. “content”
           1. A string with length greater than or equal to 1 and less than 1024 – Acceptable
           2. A string with length equal to 0 or greater than 1024 – Error
        2. “recipient”
           1. A string with length greater than or equal to 1 and less than 256 – Acceptable
           2. A string with length equal to 0 or greater than 256 – Error
     2. Checklist

[ ]: Send user message

[ ]: View message  
[ ]: Delete message  
[ ]: Cancel send message  
[ ]: Archive current message

* 1. Review Module: This module maintains a database of all of the reviews that users leave other users
     1. Equivalence classes:
        1. “user\_id”
           1. Any user\_id that exists in the connaction\_attending table for the ConnAction identified by the connaction\_id in this module and is not the same as from\_user – Acceptable
           2. Any number that does not correspond to a user\_id in the Users table – Error
        2. “from\_user”
           1. The ID number of the user that is submitting the review. - Acceptable
           2. Any number that does not correspond to a user\_id in the users table – Error
        3. “is\_anonymous”
           1. An integer value in the set {0, 1} -Acceptable
           2. Any value other than 0 or 1 – Error
        4. “connaction\_id”
           1. Any integer that corresponds to a Connaction\_ID in the Connaction table -Acceptable.
           2. Any Integer that does not correspond to a Connaction\_ID in the Connation Table or Any integer that does not exist in the connaction\_attending table for the connactionID identified in this module – Error
        5. “is\_positive”
           1. An integer value in the set {0, 1} -Acceptable
           2. Any value other than 0 or 1 – Error
        6. “review\_date”
           1. Any Date value that is > the start time of the ConnAction identified by the connaction\_id in this module. - Acceptable
           2. Any Date value that is < the start time of the ConnAction identified by the connaction\_id in this Module. -Error
        7. “review”
           1. Any string that is less than 4000 characters – Acceptable
           2. Any String > 4000 characters - Error
     2. Checklist

[ ]: Click Review ConnAction Button for a valid user after the start time of the connaction\_id identified in this module.

[ ]: Click the Review Button before the start time of the ConnAction identified by the connaction\_id in this module. (should result in error)

[ ]: Click the review button and try to leave a review for the user that is logged in (yourself). (should not be an option)

[ ]: Try to leave a review for someone that did not attend the ConnAction. (should not be an option)

[ ]: Try to review a user on a ConnAction that you did not attend.

[ ]: Try to leave a review that has a message longer than 4000 characters. (should result in an error)

* 1. ConnAction Module: This module maintains the different ConnActions users will have with other users.
     1. Equivalence classes:
        1. “connaction\_id”
           1. A number generated by the database higher by one value than the last connaction\_id that was generated – Acceptable
           2. A number generated by the database less than or equal to the value of the last connaction\_id generated – Error
        2. “location”
           1. Any network that the user is created the ConnAction is in – Acceptable
           2. Any network that the user who is created the ConnAction is not in – Error
        3. “activity\_id”
           1. Any activity that the user who is created the ConnAction is in – Acceptable
           2. Any activity that the user who is created the ConnAction is not in – Error
        4. “date”
           1. A time that is equal to the current time or in the future – Acceptable
           2. A time that is in the past – Error
     2. Checklist

[ ]: Click to create a ConnAction

[ ]: Attempt to select an invalid network

[ ]: Select a valid network

[ ]: Attempt to select an invalid activity

[ ]: Select a valid activity

[ ]: Attempt to select a time in the past

[ ]: Select a time that is equal to current or sometime in the future

[ ]: Click post this ConnAction

[ ]: Ensure the ConnAction is in the correct stream (location and/or activity stream)

* 1. Picture Module: This module maintains the user’s profile picture
     1. “profile\_pic”:
        1. A string value corresponding to the URL which points to where the image is hosted on the web – Acceptable
        2. A string value NOT corresponding to the URL which points to where the image is hosted on the web - Error
     2. Checklist

[ ]: Click Upload Profile Picture button

[ ]: In popup window, browse files on user’s computer and select the image to upload

[ ]: Select ‘Ok’ to upload the photo from user’s machine to website server and verify that the image now displays as the user’s profile picture

[ ]: Delete profile picture

[ ]: Click on a profile picture in a news feed to ensure that it links to the posting user’s profile

* 1. Testers: Ray and Rob

1. Integration Testing
   1. Purpose: To ensure all of the modules work and communicates correctly with the appropriate modules.
   2. Integration Testing Checklist

[ ]: Register and create a new profile

[ ]: Fill in my profile and add a picture

[ ]: Subscribe to various networks and activities

[ ]: Post a ConnAction

[ ]: Ask to Join a ConnAction

[ ]: Send a message

[ ]: Receive a message

[ ]: Leave a review

[ ]: Comment on a ConnAction

[ ]: Log out

* 1. Testers: Vincent

1. System Testing
   1. Purpose: To ensure that the website is able to use all modules and meets the requirements
   2. System Testing Checklist

[ ]: Queries take a reasonable amount of time

[ ]: All pages work (UI does not break, appropriate sections are visible)

[ ]: Security settings work

[ ]: Databases do not run out of space

[ ]: Can handle a 100+ concurrent users

* 1. Testers: Everyone

1. Acceptance Testing
   1. Purpose: To ensure the website meets the functionality requirements
   2. Acceptance Testing Checklist

[ ]: Accounts can be created

[ ]: Profiles can be edited

[ ]: Networks can be created

[ ]: Activities can be created

[ ]: Networks can be joined

[ ]: Activities can be joined

[ ]: ConnActions can be posted to the appropriate activity

[ ]: ConnActions are visible to those who are subscribed to that particular activity

[ ]: Messages can be sent

[ ]: Users can be reviewed after a ConnAction

* 1. Testers: Everyone

1. Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Person | **Date Modified** | **Section** | **Description** |
| **Ray** | 11/11/11 | 2.1, 2.6 | First Draft |
| **Rob** | 11/12/11 | 2.7, 2.9 | First Draft |
| **Kim** | 11/13/11 | 2.2, 2.10 | First Draft |
| **Vince** | 11/14/11 | 1, 2.3, 2.5, 3, 4, 5 | First Draft |
| **Dave** | 11/14/11 | 2.4, 2.8, | First Draft |
| **Vince** | 12/10 | 2.7 | Removed comments |