# Unit Tests

## Login System

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| **#** | **Test Case** | **Expected Result** | **Actual Result** |
| 1 | Terms of service has not been ticked during registration. | ­Registration validation should fail. | Registration validation fails. |
| 2 | Email does not belong to University of Exeter’s domain during registration. | ­Registration validation should fail. | Registration validation fails. |
| 3 | Email cannot be an email address (wrong format) during registration. | ­Registration validation should fail. | Registration validation fails. |
| 4 | Confirmed password does not match the password during registration. | ­Registration validation should fail. | Registration validation fails. |
| 5 | Password does not contain 8 characters during registration. | ­Registration validation should fail. | Registration validation fails. |
| 6 | Password does not contain a number during registration. | ­Registration validation should fail. | Registration validation fails. |
| 7 | Full name contains a character which is not a letter or a space during registration. | ­Registration validation should fail. | Registration validation fails. |
| 8 | Username contains a non-alphanumeric character during registration. | ­Registration validation should fail. | Registration validation fails. |
| 9 | All registration inputs are as expected. | Registration validation should pass. | Registration validation passes. |
| 10 | No registration inputs are made (but terms of service have been ticked). | ­Registration validation should fail. | Registration validation fails. |
| 11 | Input email address has already been registered. | ­Registration validation should fail. | Registration validation fails. |
| 12 | Login page loads correctly when viewing | App response should be 200. | App response was 200. |
| 13 | Registration page loads correctly when viewing | App response should be 200 | App response should be 200 |

## Social Profiles

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| **#** | **Test Case** | **Expected Result** | **Actual Result** |
| 1 | One of the interests is greater than 24 characters. | Editing profile validation should fail. | Editing profile validation fails. |
| 2 | One of the hobbies is greater than 24 characters. | Editing profile validation should fail. | Editing profile validation fails. |
| 3 | Gender is not ‘Male’, ‘Female’, or ‘Other’. | Editing profile validation should fail. | Editing profile validation fails. |
| 4 | Bio is greater than 160 characters. | Editing profile validation should fail. | Editing profile validation fails. |
| 5 | All edit profile inputs are as expected. | Editing profile validation should pass. | Editing profile validation passes. |
| 6 | No edit profile inputs are made. | Editing profile validation should pass. | Editing profile validation passes. |
| 7 | User accessing their own profile page while logged in | Should return their profile page URL and response of 200 | Returned their profile page URL and response of 200 |
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# Auxiliary Functions

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| **#** | **Test Case** | **Expected Result** | **Actual Result** |
| 1 | Correct image file type is trying to be stored | Function “allowed\_file” returns “True” | Function “allowed\_file” returned “True” |
| 2 | Incorrect image file type is trying to be stored | Function “allowed\_file” returns “False” | Function “allowed\_file” returned “Flase” |

# Integration Tests

## 10/03/2021

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| **#** | **Components Involved** | **Outcome** | **Additional Comments** |
| 1 | Profile of user logged in and editing profile | Success |  |
| 2 | Profile of another user and connect requests | Success |  |
| 3 | Profile of user logged in and achievements page | Success |  |
| 4 | Profile of another user and achievements page | Success |  |
| 5 | Performing tasks and achievements page | Success |  |
| 6 | Profile of another user and feed | Success |  |
| 7 | Viewing feed and making a post on it | Success |  |
| 8 | Viewing a post from another user and its comments | Success |  |
| 9 | Viewing a post made by you and its comments | Success |  |
| 10 | Viewing a post made by you and deleting a comment you made | Success |  |
| 11 | Viewing a post from another user and deleting a comment you made | Success |  |
| 12 | Viewing a post made by you and making a comment | Success |  |
| 13 | Viewing a post from another user and making a comment | Success |  |
| 14 | Using the student network on a mobile device | Success |  |
| 15 | Viewing your profile earns achievement ID 1 | Success | The username and achievement ID were added to the CompleteAchievements table and 25xp was added for the user in the UserLevel table, as expected. Nothing was awarded on subsequent profile views.  Achievement ID reference table can be found as ‘Achievements\_table\_reference.csv’. |
| 16 | Adding a connection for the first time completes achievement ID 4 for user and the user you are connecting to if necessary | Success | Since neither the connection invitee nor recipient had the achievement, both received it in the database as well as the relevant xp. |
| 17 | Adding a connection completes achievement ID 5 for user or the user you are connecting to if it is their 10th connection | Success | Tested with the requestee and the requester gaining their 10th connection separately and in the same request acceptance. |
| 18 | Posting to the social feed for the first time completes achievement ID 7 | Success | No achievement for a second post |
| 19 | Posting to the social feed for the 20th time completes achievement ID 9 | Success |  |
| 20 | Commenting on a post for the first time completes achievement ID 10 | Success | No achievement for subsequent comments |
| 21 | Adding a close connection for the first time completes achievement ID 12 for user | Success | Close friends is a one way system, user1 marks user2 as user1’s close friend only. Therefore, this achievement is not awarded to user 2 in this case |
| 22 | Adding a connection with a mutual interest on their profile completes achievement ID 16 for user or the user you are connecting to if it is their first of such connections | Success | Both the connection requestee and the requester gained this achievement |
| 23 | Opening a post and pressing like for the first time completes achievement ID 19 for user | Success | The user was also able to unlike the post; however this did not allow them to get the achievement again.  The user who posted the liked post is also checked foe needing achievement IDs 20 and 22 relating to receiving likes. |
| 24 | Completing a quiz for the first time as well as with achieving a perfect score should award achievement IDs 27 and 28 to user | Success | On completing quiz, achievement ID 27 is awarded, and since the score is 100%, ID 28 is awarded also. Achievement ID 28 can also be attained on a later quiz attempt |

# User Acceptance Tests

## 11/03/2021

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| **#** | **Criterion** | **Success/Failure** |
| 1 | Students and academics must be able to register for an account with a unique email address, unique username, and a password which they must confirm. | Success |
| 2 | Students and academics must be able to log into their account given that they enter the correct username and password. | Success |
| 3 | Students and academics must be able to post on their social wall with status updates, with privacy settings to restrict who can see these posts. | Success |
| 4 | Students and academics should be able to make connect requests for one another. | Success |
| 5 | Students and academics should be able to interact in a social network, with social profiles and a system of close friends. | Success |
| 6 | Students and academics should be able to receive notifications for their interactions in the social network. | Failure |
| 7 | Students should be incentivised to engage with others on the application through a series of virtual rewards linked to activities and challenges which promote positive engagement in the community. | Success |
| 8 | Students and academics should be able to find what they are looking for and navigate to parts of the application quickly. | Success |