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| Application element | Input | Valid Equivalence Class | Invalid Equivalence Class | Test Case | Output (link to output image) | Functional Requirement Tested |
| 1. Signup Email ID | Email ID = s1@s2,  Where s1 can contain  letters (a-z), numbers (0-9), dashes (-), underscores (\_), apostrophes ('), and periods (.) and same for s2. (given s2 is same domain as university entered) | [s1@s2] | Anything other than s1 and s2 is considered invalid.  We have created 3 invalid equivalence classes below :   1. String s where s is non empty, 2. String s where s is empty, 3. [s1@] 4. [@s2] 5. [s1@s3], where s3 is not the same domain as university entered | VALID TEST CASES -  Eg.  Abc@gmail.com  INVALID TEST CASES -  Eg.   1. Abc 2. abc@ 3. @gmail 4. abc@abc | Valid:  <https://drive.google.com/file/d/11uveYIX2LRyoqzQHTZEsRx152EXYmugf/view?usp=sharing>  Invalid:   1. <https://drive.google.com/file/d/1akcY1Js7ytZBsz75596wOvS_B_6XhUBk/view?usp=sharing> 2. <https://drive.google.com/file/d/1BY7IFQUy7s1ym9knRtPlJq2rtCTm3ZnP/view?usp=sharing> 3. <https://drive.google.com/file/d/1EsTa0EldeMe7WTokwY8P5Mse-3YD1OPy/view?usp=sharing> 4. <https://drive.google.com/file/d/1m39c9daqBrR-qVTQciG_SPsApbTHZ2Rm/view?usp=sharing> 5. <https://drive.google.com/file/d/1A4b1cnxUGWSmXGajUWHbFd50W2DKpjs0/view?usp=sharing> | Users must have valid User email to signup thus creating their individual profiles. |
| 1. Login Email ID | Email ID = registered user’s email ID | All email IDs that have been registered | All email IDs that haven’t been registered | VALID TEST CASES -  Eg.  [instructor@gmail.com](mailto:instructor@gmail.com)  INVALID TEST CASES -  Equivalence class input,  Where the below emails do not exist in database   1. Abc@gmail.com | Valid:  <https://drive.google.com/file/d/1UN-imaV0-Cyq8EXGfvNB543oY1thq6Vb/view?usp=sharing>  Invalid:   1. <https://drive.google.com/file/d/1rPDwNVnDz6z2QbtxVasvVpwZtBU1o_CZ/view?usp=sharing> | Users must have valid User email to login thus creating their individual profiles. |
| 3) Signup Password | Signup Password,  Where password is more than 6 characters | Any string s where s is non empty | 1. s, where s is less than 6 characters 2. s, where s is empty | VALID TEST CASES -  Eg. s, where s is more than 6 characters  INVALID TEST CASES -  Eg.  1) Abc  2) s, where s is empty | Valid:  <https://drive.google.com/file/d/18DjR__gGhJpWFXXzFbdhLN1qhN0ehzkZ/view?usp=sharing>  Invalid:   1. <https://drive.google.com/file/d/1QWkRwSk_8gQnRUGU4e3tkvcjoi7Dxwe6/view?usp=sharing> 2. <https://drive.google.com/file/d/12UHa3WbgpDExpRAvqdOd5NQ2-piv7dtt/view?usp=sharing> | Users must have valid User password to signup thus creating their individual profiles. |
| 4) Login password | Login password = registered user’s password | All passwords that have been registered | All passwords that haven’t been registered | VALID TEST CASES -  Eg.  inspass  INVALID TEST CASES -  Equivalence class input,  Where the below universities do not exist in database   1. Randompassword | Valid:  <https://drive.google.com/file/d/1a1mbIfx6ZNNQvQdrHxE33QUl8zRbuurz/view?usp=sharing>  Invalid:   1. <https://drive.google.com/file/d/1Gp-CAnChc5IEDNaSwGEhnevB0ArmUfVP/view?usp=sharing> | Users must have valid User email to login thus creating their individual profiles. |
| 5) Signup University | Select a university from the given list | Selected university | Not selected university | VALID TEST CASES -  Eg.  Google University  INVALID TEST CASES -  Equivalence class input,  Where the below universities do not exist in database   1. Empty string | Valid:  <https://drive.google.com/file/d/1UJzs34yD2uG998z1O3uVrTx99Htpx7PB/view?usp=sharing>  Invalid:   1. <https://drive.google.com/file/d/1g0WOV2y3O0qSxdmXghqdSaErRVXD5ly5/view?usp=sharing> | Users must enter valid universities to create their profiles |
| 1. Signup Role | Select a role from the given list | Selected role | Not selected role | VALID TEST CASES -  Eg.  Instructor  INVALID TEST CASES -  Equivalence class input,  Where the below roles do not exist in list   1. Empty string | Valid:  <https://drive.google.com/file/d/1D-uCq4s-BTkaOylbq5LmgYxH64rRFCpz/view?usp=sharing>  Invalid:   1. <https://drive.google.com/file/d/1gt_w1gRgxCdNugjpjV3gTxjfzxkEWLoN/view?usp=sharing> | Users must enter valid roles to create their profiles |
| 1. Wiki-style answers | Any input string given by a user who hasn’t originally answered | Any string ‘s’ |  |  | <https://drive.google.com/file/d/1DooY3Fd-c_pVPd5Xt67DVaY-rorv3Ca7/view?usp=sharing> | Students can edit questions and answers wiki-style. |
| 1. Respond to comment | Any input string | Any string ‘s’ |  |  | <https://drive.google.com/file/d/1a_QVa526CHad7yJz0aIJxN_omClP8Ci4/view?usp=sharing> | Instructors can respond to questions and comments |
| 1. Endorse a post/comment | Click event for liking a post or comment | 1. Endorsing a post 2. Endorsing a comment |  |  | 1. <https://drive.google.com/file/d/1tQjubkehngu5_oSZiqcZnYbQr2zJo4EP/view?usp=sharing> 2. <https://drive.google.com/file/d/1suFZWZOQjY-9nvdMwcYVaziMRmoc3NzO/view?usp=sharing> | Instructors can endorse questions and comments |
| 1. Allowing anonymous participation | Click event for turning on anonymity of a class | Turning on anonymity of a class |  | 1. Anonymous post 2. Anonymous comment | Anonymity of class -  <https://drive.google.com/file/d/1CfCI6a1-Re0d4g98BOD2BKeOT4wN6GyE/view?usp=sharing>   1. <https://drive.google.com/file/d/1L3R8r0rnKRvlPbAaiigkCQDLPnYHT6DJ/view?usp=sharing> 2. <https://drive.google.com/file/d/14n4sm3bDELqVRjrsH62Xt64PFwZsZjgq/view?usp=sharing> | Instructors can allow students to participate anonymously. |
| 1. View Statistics | Adding a post or comment, or deleting a post or comment | 1. Adding a post 2. Deleting a post 3. Adding a comment 4. Deleting a comment |  | 1. Adding a post   2) Deleting a post  3) Adding a comment  4) Deleting a comment | Original Stats -  <https://drive.google.com/file/d/1CfZxk8sKsbx69A4FopaBhZQslcr9XOpG/view?usp=sharing>   1. <https://drive.google.com/file/d/1mcpf2h1p-ktxR23g72x6szciAPJbHS6A/view?usp=sharing> 2. <https://drive.google.com/file/d/1YO42yyUXR0ylT5XG5vT-LsZKgUjTCarU/view?usp=sharing> 3. <https://drive.google.com/file/d/11kK0jRpc0jUd4RjykgyGCzBNwu_gpHqe/view?usp=sharing> 4. <https://drive.google.com/file/d/1f37Cl6mjEulnP13LKTX84DTy1R_E2305/view?usp=sharing> | Statistics help instructors monitor participation, top contributors, and adapt teaching strategies |
| 1. Search filter | Any string | 1. String matches post summary 2. String matches post details |  | Eg.  Electrifying | <https://drive.google.com/file/d/1g4HCu6CGXm9QB-DlvGJRl6vpF7GhOyfY/view?usp=sharing> | Students can search through posts on the platform. |
| 1. Create Discussions (tagging) | Any string | Any non empty string | Empty string | Valid test cases -   1. Test Discussion   Invalid test cases -   1. s, where s is an empty string | <https://drive.google.com/file/d/11SuI0WP2g72jCyVGE3VoNA9lZfAaQeMI/view?usp=sharing> | Instructors can create discussions to help segregate different topics which makes searching through them easier |
| 1. Filtering posts by tagging | Click event to select a discussion | Select any discussion |  | Valid test case  Eg.   1. electro | <https://drive.google.com/file/d/1A9bGmR4CRqoMKhCMp0E-7GG8HEoXJknH/view?usp=sharing> | Platform supports tagging via discussions and categorizing of posts. |
| 1. Create post: Post type | Radio input : choose between ‘question’ or ‘note’ | 1. Chosen ‘question’ option 2. Chosen ‘note’ option | 1. Did not choose a post type (empty input) | Valid Test cases -   1. Chosen ‘question’ option 2. Chosen ‘note’ option   Invalid test cases -  Did not choose a post type (empty input) | Valid:   1. <https://drive.google.com/file/d/1vAykVAYF_coa-ePJb-X-GT4wdzOo2Swh/view?usp=sharing> 2. <https://drive.google.com/file/d/10z2R2MD_VxymCDwphDyfDXdq2uO-3vJO/view?usp=sharing>   Invalid:  <https://drive.google.com/file/d/19bI331Atmenf2hbliuMHLyBHoTqdcZWB/view?usp=sharing> | Students can comment on answers or post follow-up inquiries. |
| 1. Create post: Summary | Any string | Any non empty string | Empty string | Valid test cases -   1. Test summary   Invalid test cases -   1. s, where s is an empty string | Valid:  <https://drive.google.com/file/d/1vvae6vxMIscOqgbqwnf2eUX1DPCll1PG/view?usp=sharing>  Invalid:  <https://drive.google.com/file/d/1wDFqL5qUuNjy64hhx8lTmMAk2hnzFs6G/view?usp=sharing> | Students can comment on answers or post follow-up inquiries. |
| 1. Create post: Details | Any string | Any non empty string | Empty string | Valid test cases -   1. Test details   Invalid test cases -   1. s, where s is an empty string | Valid:  <https://drive.google.com/file/d/17tpZrSIxDkdw6qHLMaJIbHMkeaML222Z/view?usp=sharing>  Invalid:  <https://drive.google.com/file/d/19d9soQUku64BhN7giNzgtBgNZBG9Vlim/view?usp=sharing> | Students can comment on answers or post follow-up inquiries. |
| 1. Create post: Show name | Radio input : choose between your email or ‘Anonymous’ (if class anonymity is set as true) | 1. Chosen your name as option 2. Chosen ‘Anonymous’ as option | Did not choose any option (empty input) | Valid Test cases -   1. Chosen your name as option 2. Chosen ‘Anonymous’ as option   Invalid test cases -   1. Did not choose any option (empty input) | Valid:   1. <https://drive.google.com/file/d/1LfziJftAvFrD7z2x4XqRpSeFEydnH41d/view?usp=sharing> 2. <https://drive.google.com/file/d/1BN5wt8Yl09NwXeaCADhs1yiwNYUSXGo4/view?usp=sharing>   Invalid:   1. <https://drive.google.com/file/d/1MTpxuJnc776rvuPqotF9McUmxECHisvp/view?usp=sharing> | Students can comment on answers or post follow-up inquiries. |
| 1. Create comment:   Comment details | (Only when post type is question) Input any string ‘s’ for details of comment | Any non empty string | Empty string | Valid Test Cases -   1. Test comment   Invalid Test Cases -   1. s, where s is an empty string | Valid:  <https://drive.google.com/file/d/14ebG6Qeln5Yj0fXvhqIbKgM80SHqsQq2/view?usp=sharing>  Invalid:  <https://drive.google.com/file/d/1-ry7IfBATkRXBPYCp7G0ISYexSwVPFWJ/view?usp=sharing> | Students can comment on answers or post follow-up inquiries. |
| 1. Create comment:   Comment show name | Select a show name from given list of options | 1. Chosen your name as option 2. Chosen ‘Anonymous’ as option | Did not choose any option (empty input) | Valid Test cases -   1. Chosen your name as option 2. Chosen ‘Anonymous’ as option   Invalid test cases -  Did not choose any option (empty input) | Valid:   1. <https://drive.google.com/file/d/13_nu2OJFtfHSPjojH00pw1ax5Pb9yNlh/view?usp=sharing> 2. <https://drive.google.com/file/d/1MM1mGzMcab8N5TQ9MLfM5MSjMbSCQYMZ/view?usp=sharing>   Invalid:  <https://drive.google.com/file/d/1jZXg9aykD5f61-c4BUhXNeE7G2K_NFkc/view?usp=sharing> | Students can comment on answers or post follow-up inquiries. |
| 1. Post Highlighting | If the post is not endorsed or doesn’t have any comments then it’ll be highlighted for immediate action | no comments or likes on posts | More than 1 comment or likes on posts | Valid Test Cases -   1. No action that triggers highlighting   Invalid Test Cases -   1. Adding a comment 2. Liking a post | Valid:   1. <https://drive.google.com/file/d/1CJgSNPZ5qKGNNh2FGr8ZHe6OSZsQ8McU/view?usp=sharing>   Invalid:   1. <https://drive.google.com/file/d/1JD2sAu2qQ2PFb-HyR7YVS1xHeNxJ-Opj/view?usp=sharing> 2. <https://drive.google.com/file/d/1JE3Cfm5rpSedbe51GgU7SW6PqWlQywdV/view?usp=sharing> | Questions and posts needing immediate action are highlighted |