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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) 3) abc@ 4) @gmail 5) abc@abc	Valid: https://drive.google.com/file/d/11uveYIX2LRyoqzQHTZEsRx152 EXYmugf/view?usp=sharing Invalid: 1) https://drive.google.com/file/d/1akcY1Js7ytZBsz75596wOvS _B_6XhUBk/view?usp=sharing 2) https://drive.google.com/file/d/1BY7IFQUy7s1ym9knRtPlJq2 rtCTm3ZnP/view?usp=sharing 3) https://drive.google.com/file/d/1EsTa0EldeMe7WTokwY8P5 Mse-3YD1OPy/view?usp=sharing 4) https://drive.google.com/file/d/1m39c9daqBrR- qVTQciG_SPsApbTHZ2Rm/view?usp=sharing 5) https://drive.google.com/file/d/1A4b1cnxUGWSmXGajUWH bFd50W2DKpjs0/view?usp=sharing	Users must have valid User email to signup thus creating their individual profiles.
2) 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 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/1rPDwNVnDz6z2QbtxVasvVp wZtBU1o_CZ/view?usp=sharing	Users must have valid User email to login thus creating their individual profiles.

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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__gGhJpWFXXzFbdhLN1q hN0ehzkZ/view?usp=sharing Invalid: 1) https://drive.google.com/file/d/1QWkRwSk_8gQnRUGU4e3t kvcjoi7Dxwe6/view?usp=sharing 2) https://drive.google.com/file/d/12UHa3WbgpDExpRAvqdOd 5NQ2-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/1a1mbIfx6ZNNQvQdrHxE33QUl 8zRbuurz/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.

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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
6) 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

7) 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.
8) 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

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9) 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
10) 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.

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| 11) 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 |
| 12) 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. |

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13) 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/11SuI0WP2g72jCyVGE3VoNA9l ZfAaQeMI/view?usp=sharing	Instructors can create discussions to help segregate different topics which makes searching through them easier
14) 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.

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15) 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.
16) 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.

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17) 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.
18) 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.

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19) 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.
20) 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.

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| 21) 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 |