| Test id | Description | Input | Expected Output | Date Tested | Problem | Solution |
| --- | --- | --- | --- | --- | --- | --- |
| 1 grey box | System test  load app in debug mode | app.config.from\_object('config.DebugConfig') | App loads on localhost with correct session variables |  |  |  |
| 2 grey box | System test  load app in testing mode | app.config.from\_object('config.TestingConfig') | App loads on localhost with correct session variables |  |  |  |
| 3 grey box | System test  load app in release mode | app.config.from\_object('config.ReleaseConfig') | App loads on localhost with correct session variables |  |  |  |
| 4 black box | Unit test  Not logged in profile page | Attempt to load /profile if not logged in | Redirect to login |  |  |  |
| 5 black box | Unit test  Logged in on profile page | Attempt to load /profile if logged in | Load template profile.html |  |  |  |
| 6 black box | Unit test  Logged in on messages page | Attempt to load /profile/messages if logged in | Load template messages.html |  |  |  |
| 7 black box | Unit test  Not logged in on messages page | Attempt to load /profile/messages if not logged in | Redirect to login |  |  |  |
| 8 grey box | Unit test  Logged in and send friend request | Attempt to send friend request | HTTP 200 or 403 |  |  |  |
| 9 black box | Unit test  Not logged in and send friend request | Attempt to send friend request | Redirect to login |  |  |  |
| 10 grey box | Unit test  Logged in and add category | Attempt to add category | HTTP 200 or 403 |  |  |  |
| 11 black box | Unit test  Not logged in and add category | Attempt to add category | Redirect to login |  |  |  |
| 12 grey box | Unit test  Logged in and add thread | Attempt to add thread | HTTP 200 or 403 |  |  |  |
| 13 black box | Unit test  Not logged in and add thread | Attempt to add thread | Redirect to login |  |  |  |
| 14 grey box | Unit test  Logged in and add comment | Attempt to add comment | HTTP 200 or 403 |  |  |  |
| 15 black box | Unit test  Not logged in and add comment | Attempt to add comment | Redirect to login |  |  |  |
| 16 grey box | Unit test  Logged in and vote on thread | Attempt to vote on thread | HTTP 200 or 403 |  |  |  |
| 17 black box | Unit test  Not logged in and vote on thread | Attempt to vote on thread | Redirect to login |  |  |  |
| 18 grey box | Unit test  Logged in and vote on comment | Attempt to vote on comment | HTTP 200 or 403 |  |  |  |
| 19 black box | Unit test  Not logged in and vote on comment | Attempt to vote on comment | Redirect to login |  |  |  |
| 20 white box | System test  Debug database created | Run command init\_db in debug mode | Blank database called codefeed\_debug.db created |  |  |  |
| 21 white box | System test  Testing database created | Run command init\_db in testing mode | Blank database called codefeed\_testing.db created |  |  |  |
| 21 white box | System test  release database created | Run command init\_db in release mode | Blank database called codefeed\_release.db created |  |  |  |
| 22 black box | Unit test  Landing.html loads properly | Load / route | Assert page text loads correctly, as per the requirements |  |  |  |
| 23 black box | Unit test  Create account link redirects | Click “Create Account” on landing page | Redirect to /register |  |  |  |
| 24  black box | Unit test  Login link redirects | Click “Login” on landing page | Redirect to /login |  |  |  |
| 25 black box | Unit test  Registered Users count when empty | View “Registered Users” count | Shows 0 |  |  |  |
| 26 black box | Unit test  Registered Users count when not empty | Add 5 new users to the database. View “Registered Users” count | Shows 5 |  |  |  |
| 27 black box | Unit test  Current Groups count when empty | View “Current Groups” count | Shows 0 |  |  |  |
| 28 black box | Unit test  Current Groups count when not empty | Add 4 new categories to the database. View “Current Groups” count | Shows 4 |  |  |  |
| 29 black box | Unit test  Posts Made count when empty | View “Posts Made” count | Shows 0 |  |  |  |
| 30 black box | Unit test  Posts Made count when not empty | Add 3 new threads to the database. View “Posts Made” count | Shows 3 |  |  |  |
| 31 black box | Unit test  Happy Programmers count when empty | View “Happy Programmers” count | Shows 0 |  |  |  |
| 32 black box | Unit test  Happy Programmers count when not empty | Add 10 votes to the database. View “ Happy Programmers” count | Shows 10 |  |  |  |
| 33 black box | Unit test  Return to login link | Click return to login link | Redirect to /login |  |  |  |
| 34 black box | Unit test  Full name only letters | Fill full name field with only letters | Success on submit |  |  |  |
| 35 black box | Unit test  Full name only numbers | Fill full name field with only numbers | Failure on submit |  |  |  |
| 36 black box | Unit test  Full name only special characters | Fill full name field with only special characters | Failure on submit |  |  |  |
| 37 black box | Unit test  Full name only 1 character | Fill full name field with only 1 character | Success on submit |  |  |  |
| 38 black box | Unit test  Full name 64 character | Fill full name field with 64 character | Success on submit |  |  |  |
| 39 black box | Unit test  Full name > 64 character | Fill full name field with > 64 character | Failure on submit |  |  |  |
| 40 black box | Unit test  Valid email | Fill email with a valid string | Success on submit |  |  |  |
| 41 black box | Unit test  Invalid email | Fill email with an invalid string | Failure on submit |  |  |  |
| 42 black box | Unit test  user name only letters | Fill user name field with only letters | Success on submit |  |  |  |
| 43 black box | Unit test  user name only numbers | Fill user name field with only numbers | Failure on submit |  |  |  |
| 44 black box | Unit test  user name only special characters | Fill user name field with only special characters | Failure on submit |  |  |  |
| 45 black box | Unit test  user name only 1 character | Fill user name field with only 1 character | Success on submit |  |  |  |
| 46 black box | Unit test  user name 64 character | Fill user name field with 64 character | Success on submit |  |  |  |
| 47 black box | Unit test  user name > 64 character | Fill user name field with > 64 character | Failure on submit |  |  |  |
| 48 black box | Unit test  Password < 8 character | Fill password with < 8 character | Failure on submit |  |  |  |
| 49 black box | Unit test  password 64 character | Fill password field with 64 character | Success on submit |  |  |  |
| 50 black box | Unit test  password > 64 character | Fill password field with > 64 character | Failure on submit |  |  |  |
|  |  |  |  |  |  |  |
| 51 black box | Unit test  password does not match | Fill password field to not match verify password | Failure on submit |  |  |  |
| 51 black box | Unit test  password matches | Fill password field to match verify password | Success on submit |  |  |  |
| 52 grey box | Unit test logout when logged in | Evoke /logout route when logged in | Clear session, redirect to login |  |  |  |
| 53 black box | Unit test logout when not logged in | Evoke /logout route when not logged in | Redirect to login |  |  |  |
| 54 black box | Unit test Username already taken | Register for account that already exists | Failure on submit |  |  |  |
| 55 black box | Unit test  Click on register | Click register for an account | Redirect to register |  |  |  |
| 56 black box | Unit test  Enter user name and password that match | Enter username and password that exist and match in the database | Redirect to profile |  |  |  |
| 57 black box | Unit test  Enter user name and password that do not match | Enter username and password that exist and do not match in the database | Failure message |  |  |  |
| 58 black box | Enter username and password that do not exist | Enter username and password that do not exist | Failure message |  |  |  |
| 59 black box | Unit test navbar loads properly | Navigate to /categories | Assert navbar loads as described |  |  |  |
| 60 black box | Unit test  Title loads properly | Navigate to /categories | Assert title loads as described |  |  |  |
| 61 black box | Unit test  Table loads when blank | Navigate to /categories with blank database | Assert table loads as described |  |  |  |
| 62 black box | Unit test  Table loads when blank | Navigate to /categories with blank database | Assert table loads as described |  |  |  |
| 63 black box | Unit test  Table loads when blank | Navigate to /categories with categories in database | Assert table loads as described |  |  |  |
| 64 black box | Unit test  Table search when not found | Navigate to /categories and search for a category that doesn’t exist | Assert “no results found” shows |  |  |  |
| 65 black box | Unit test  Table search when found | Navigate to /categories and search for a category that exists | Assert table shows only results that match the search |  |  |  |
| 66 black box | Unit test  Desired name in database | Add new category that exists in database | Failure message |  |  |  |
| 67 black box | Unit test  Desired name blank | Add new category with a blank name | Failure message |  |  |  |
| 68 black box | Unit test  Desired > 20 characters | Add new category with a character count > 20 | Failure message |  |  |  |
| 69 black box | Unit test  Desired name < 20 | Add new category with a character count < 20 | Failure message |  |  |  |
| 70 black box | Unit test  description name blank | Add new category with a blank name | Failure message |  |  |  |
| 71 black box | Unit test  description > 60 characters | Add new category with a character count > 60 | Failure message |  |  |  |
| 72 black box | Unit test  description name < 60 | Add new category with a character count < 60 | Success message |  |  |  |
| 73 black box | Unit test category name clicked | Clear database, add new category, click link on name | Redirect to /category/?category\_id=1 |  |  |  |
| 74 black box | Unit test navbar loads properly | Navigate to /category/?category\_id=<id> | Assert navbar loads as described |  |  |  |
| 75 black box | Unit test  Title loads properly | Navigate to /category/?category\_id=<id> | Assert title loads as described |  |  |  |
| 76 black box | Unit test  Table loads when blank | Navigate to Navigate to /category/?category\_id=<id> with blank thread database | Assert table loads as described |  |  |  |
| 77 black box | Unit test  Table loads when blank | Navigate to /category/?category\_id=<id> with non-blank database | Assert table loads as described |  |  |  |
| 78 black box | Unit test  Table search when not found | Navigate to /category/?category\_id=<id> and search for a category that doesn’t exist | Assert “no results found” shows |  |  |  |
| 79 black box | Unit test  Table search when found | Navigate to /category/?category\_id=<id> and search for a thread that exists | Assert table shows only results that match the search |  |  |  |
| 80 black box | Unit test  title name blank | Add new thread with a blank name | Failure message |  |  |  |
| 81 black box | Unit test  title > 20 characters | Add new thread with a character count > 20 | Failure message |  |  |  |
| 82 black box | Unit test  title name < 20 | Add new thread with a character count < 20 | Success message |  |  |  |
| 83 black box | Unit test  description name blank | Add new category with a blank body | Failure message |  |  |  |
| 84 black box | Unit test  Body > 60 characters | Add new body with a character count > 60 | Failure message |  |  |  |
| 85 black box | Unit test  body < 60 characters | Add new body with a character count < 60 | Success message |  |  |  |
| 86 black box | Unit test thread name clicked | Clear database, add new category, add a new thread, click link on name | Redirect to /category/thread/?category\_id=1 |  |  |  |
| 87 black box | Unit test thread upvote clicked | Click upvote on thread name | Vote count increases by 1 |  |  |  |
| 88 black box | Unit test thread downvote clicked | Click downvote on thread name | Vote count decreases by 1 |  |  |  |
| 89 black box | Unit test navbar loads properly | Navigate to /category/thread/?thread\_id=<id> | Assert navbar loads as described |  |  |  |
| 90 black box | Unit test  Title loads properly | Navigate to /category/thread/?thread\_id=<id> | Assert title loads as described |  |  |  |
| 91 black box | Unit test  Table loads when blank | Navigate to Navigate to Navigate to /category/thread/?thread\_id=<id>> with blank comment database | Assert table loads as described |  |  |  |
| 92 black box | Unit test  Table loads when blank | Navigate to Navigate to /category/thread/?thread\_id=<id>with non-blank database | Assert table loads as described |  |  |  |
| 93 black box | Unit test  Table search when not found | Navigate to Navigate to /category/thread/?thread\_id=<id>and search for a comment that doesn’t exist | Assert “no results found” shows |  |  |  |
| 94 black box | Unit test  Table search when found | Navigate to Navigate to /category/thread/?thread\_id=<id>and search for a comment that exists | Assert table shows only results that match the search |  |  |  |
| 95 black box | Unit test  body blank | Add new comment with a blank body | Failure message |  |  |  |
| 96 black box | Unit test  Body > 60 characters | Add new body with a character count > 60 | Failure message |  |  |  |
| 97 black box | Unit test  body < 60 characters | Add new body with a character count < 60 | Success message |  |  |  |
| 98 black box | Unit test comment upvote clicked | Click upvote on comment name | Vote count increases by 1 |  |  |  |
| 99 black box | Unit test comment downvote clicked | Click downvote on comment name | Vote count decreases by 1 |  |  |  |
| 100 black box | Func test invalid new account | Add new account with invalid input | Error message |  |  |  |
| 101 black box | Func test valid new account | Add new account with valid input | Success message |  |  |  |
| 100 black box | Func test invalid login | Login with invalid input | Error message |  |  |  |
| 101 black box | Func test valid login | Login with valid input | Redirect to /profile |  |  |  |
| 102 black box | Func test invalid update logged in | Update profile with invalid input | Error message |  |  |  |
| 103 black box | Func test valid update logged in | Update profile with valid input | Success message |  |  |  |
| 104 black box | Func test invalid friend logged in | Added friend with invalid input | Error message |  |  |  |
| 105 black box | Func test valid friend logged in | Added friend with valid input | Success message |  |  |  |
| 106 black box | Func test invalid message logged in | Send message with invalid input | Error message |  |  |  |
| 107 black box | Func test valid message logged in | Send message with valid input | Success message |  |  |  |
| 108 black box | Func test view message logged in | View messages | Message list shown |  |  |  |
| 109 black box | Func test invalid response logged in | Send message response with invalid input | Error message |  |  |  |
| 110 black box | Func test valid response logged in | Send message response with valid input | Success message |  |  |  |
| 111 black box | Func test invalid category logged in | Added category with invalid input | Error message |  |  |  |
| 112 black box | Func test valid category logged in | Added category with valid input | Success message |  |  |  |
| 113 black box | Func test invalid thread logged in | Added thread with invalid input | Error message |  |  |  |
| 114 black box | Func test valid friend logged in | Added thread with valid input | Success message |  |  |  |
| 115 black box | Func test invalid comment logged in | Added comment with invalid input | Error message |  |  |  |
| 116 black box | Func test valid comment logged in | Added comment with valid input | Success message |  |  |  |
| 117 black box | Func test upvote comment logged in | Added thread upvote | Vote increase by 1 |  |  |  |
| 118 black box | Func test downvote comment logged in | Added thread downvote | Vote decrease by 1 |  |  |  |
| 119 black box | Func test upvote comment logged in | Added comment upvote | Vote increase by 1 |  |  |  |
| 120 black box | Func test downvote comment logged in | Added comment downvote | Vote decrease by 1 |  |  |  |
| 121 black box | Func test view categories logged in | Navigate to /categories | Page loads |  |  |  |
| 122 black box | Func test view category logged in | Navigate to /category/?category\_id=1 | Page loads |  |  |  |
| 121 black box | Func test view thread logged in | Navigate to /category/thread/?thread\_id=1 | Page loads |  |  |  |
| 122 black box | Func test invalid update not not logged in | Update profile with invalid input | Redirect to login |  |  |  |
| 123 black box | Func test valid update not logged in | Update profile with valid input | Redirect to login |  |  |  |
| 124 black box | Func test invalid friend not logged in | Added friend with invalid input | Redirect to login |  |  |  |
| 125 black box | Func test valid friend not logged in | Added friend with valid input | Redirect to login |  |  |  |
| 126 black box | Func test invalid message not logged in | Send message with invalid input | Redirect to login |  |  |  |
| 127 black box | Func test valid message not logged in | Send message with valid input | Redirect to login |  |  |  |
| 128 black box | Func test view message not logged in | View messages | Redirect to login |  |  |  |
| 129 black box | Func test invalid response not logged in | Send message response with invalid input | Redirect to login |  |  |  |
| 130 black box | Func test valid response not logged in | Send message response with valid input | Redirect to login |  |  |  |
| 131 black box | Func test invalid category not logged in | Added category with invalid input | Redirect to login |  |  |  |
| 132 black box | Func test valid category not logged in | Added category with valid input | Redirect to login |  |  |  |
| 133 black box | Func test invalid thread not logged in | Added thread with invalid input | Redirect to login |  |  |  |
| 134 black box | Func test valid friend not logged in | Added thread with valid input | Redirect to login |  |  |  |
| 135 black box | Func test invalid comment not logged in | Added comment with invalid input | Redirect to login |  |  |  |
| 136 black box | Func test valid comment not logged in | Added comment with valid input | Redirect to login |  |  |  |
| 137 black box | Func test upvote comment not not logged in | Added thread upvote | Redirect to login |  |  |  |
| 138 black box | Func test downvote comment not logged in | Added thread downvote | Redirect to login |  |  |  |
| 139 black box | Func test upvote comment not logged in | Added comment upvote | Redirect to login |  |  |  |
| 140 black box | Func test downvote comment not logged in | Added comment downvote | Redirect to login |  |  |  |
| 141 black box | Func test view categories not logged in | Navigate to /categories | Page loads |  |  |  |
| 142 black box | Func test view category not logged in | Navigate to /category/?category\_id=1 | Page loads |  |  |  |
| 141 black box | Func test view thread not logged in | Navigate to /category/thread/?thread\_id=1 | Page loads |  |  |  |
| 151 black box | Acc test  register | Navigate to /register, create account via on screen instructions | Redirect to /login |  |  |  |
| 152 black box | Acc test  login | Navigate to /login, login with credentials created on register | Redirect to /profile |  |  |  |
| 152 black box | Acc test  logout | Click logout on any page | Redirect to /login |  |  |  |
| 153 black box | Acc test  View profile | Click profile on any page | Redirect to /profile |  |  |  |
| 154 black box | Acc test edit profile | Edit profile with on screen instructions | Assert profile updates are reflected on the page |  |  |  |
| 155 black box | Acc test view friends | Click Friends on /profile | Show list of accepted friends |  |  |  |
| 156 black box | Acc test add friends | Click Add Friends on /profile | Add new friend |  |  |  |
| 157 black box | Acc test view friends | Click Friends on /profile | Show list of accepted friends |  |  |  |
| 158 black box | Acc test view messages | Click Messages on any page | Show list of messages |  |  |  |
| 159 black box | Acc test respond message | Click respond on a message | Send message response |  |  |  |
| 160 black box | Acc test view friends | Click Categories on any page | Show list of categories |  |  |  |
| 161 black box | Acc test view messages | Click Messages on any page | Show list of messages |  |  |  |
| 162 black box | Acc test respond message | Click respond on a message | Send message response |  |  |  |
| 163 black box | Acc test view categories | Click Categories on any page | Show list of categories |  |  |  |
| 164 black box | Acc test view threads | Click thread id on any category | Show list of comments on thread |  |  |  |
| 165 black box | Acc test vote thread | Click vote on any thread | Vote reflects counter |  |  |  |
| 166 black box | Acc test vote comment | Click vote on any comment | Vote reflects counter |  |  |  |
| 167 black box | Acc test add category | Click add category on /categories and follow on screen instructions | New category added |  |  |  |
| 168 black box | Acc test add thread | Click add thread on /category and follow on screen instructions | New thread added |  |  |  |
| 169 black box | Acc test add comment | Click add comment on /thread and follow on screen instructions | New comment added |  |  |  |

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| --- | --- | --- | --- | --- | --- | --- |
| Test\_No | Description | Input | Expected Output | Date Tested | Problem | Solution |
| 170 Black box | Unit test Profile | Click Edit Profile | Pop up form |  |  |  |
| 171 Black box | Unit test Profile | From test 19: Name = a number | Error |  |  |  |
| 172 Black box | Unit test Profile | From test 19: Name = 33 letters, hyphens or apostrophes | Error |  |  |  |
| 173 Black box | Unit test Profile | From test 19: Email = @....(65 @ symbols) | Error |  |  |  |
| 174 Black box | Unit test Profile | From test 19: Username = x….(33 x symbols) | Error |  |  |  |
| 175 Black box | Unit test Profile | From test 19: Password = 1234 | Error |  |  |  |
| 176 Black box | Unit test Profile | From test 19: Password = 1…(257 1’s) | Error |  |  |  |
| 177 Black box | Unit test Profile | From test 19: Verify Password != Password | Error |  |  |  |
| 178 Black box | Unit test Profile | From test 19: Click Update Profile with bad fields | Error |  |  |  |
| 179 Black box | Unit test Profile | From test 19: Click Update Profile with good fields | Return new information and update DB |  |  |  |
| 180 Black box | Unit test Profile | Click on Email Address | Open email link |  |  |  |
| 181 Black box | Unit test Profile | Click on My Profile | Go to logged in user profile page |  |  |  |
| 182 Black box | Unit test Profile | Click on Messages | Go to user’s messages |  |  |  |
| 183 Black box | Unit test Profile | Click on categories | Go to user’s categories |  |  |  |
| 194  Black box | Unit test Profile | Click on Logout | Logs user Out |  |  |  |
| 195 Black box | Unit test  Profile | Click on My Friends | Go to Friends Page |  |  |  |
| 196 Black box | Unit test  Friends | Click on Show Entries | Drop down list |  |  |  |
| 197 Black box | Unit test  Friends | From test 35: select 10 | Display 10 messages at a time |  |  |  |
| 198 Black box | Unit test  Friends | From test 35: select 25 | Display 25 messages at a time |  |  |  |
| 199 Black box | Unit test  Friends | From test 35: select 50 | Display 50 messages at a time |  |  |  |
| 200 Black box | Unit test  Friends | From test 35: select 100 | Display 100 messages at a time |  |  |  |
| 201 Black box | Unit test  Friends | Click Add Friend | Pop-up for Adding user. |  |  |  |
| 202 Black box | Unit test  Friends | From test 40: Add User text field = random guess username | Error |  |  |  |
| 203 White box | Unit test  Friends | From test 40: Add User text field = your own username | Error |  |  |  |
| 204 White box | Unit test  Friends | From test 40: Add User text field = other username that exists in db | accept |  |  |  |
| 205 White box | Unit test  Friends | From test 40: Click Add | Send friend request to user. |  |  |  |
| 206  Black box | Unit test  Friends | Search any random username | Error |  |  |  |
| 207  White box | Unit test  Friends | Search a username already in friends database | Return user in the friends table |  |  |  |
| 208  Black box | Unit test  Friends | Click Name | Sort by ascending/descending |  |  |  |
| 209  Black box | Unit test  Friends | Click Friends Since | Sort by ascending/descending |  |  |  |
| 210  Black box | Unit test  Friends | Click previous | Go to previous page of friends |  |  |  |
| 211  Black box | Unit test  Friends | Click Next | Go to next page of friends |  |  |  |
| 212  Black box | Unit test  Friends | Click on My Profile | Go to logged in user profile page |  |  |  |
| 213  Black box | Unit test  Friends | Click on Messages | Go to user’s messages |  |  |  |
| 214  Black box | Unit test  Friends | Click on categories | Go to user’s categories |  |  |  |
| 215  Black box | Unit test  Friends | Click on Logout | Logs user Out |  |  |  |