**State Transition Testing**

**Diagram:**

User already logged in another browser/device

Invalid email/password

Log In Page

Change details (email, password, personal)

account signed in with valid email/password

log out

delete account

Invalid email

Forgot password Page

Invalid email/password

account created with valid email/password

create new account

User Logged In

Account Create Page

back to log in

valid email - request sent

forgot password

Back to log in

**State Transition Table:**

|  |  |  |
| --- | --- | --- |
| Initial State | Event | Next State |
| Log in page | Click create account | Account create page |
| Account create page | Valid email/password entered to create account | Log in page |
| Account create page | Invalid email/password | Account create page |
| Account create page | Back to log in | Account create page |
| Log in page | Click forgot password | Forgot password page |
| Forgot password page | Valid email entered | Log in page |
| Forgot password page | Back to log in | Log in page |
| Forgot password page | Invalid email entered | Forgot password page |
| Log in page | Valid email/password entered to sign in | User logged in |
| Logged in page | Log out | Log in page |
| Logged in page | Delete account | Log in page |
| Logged in page | Change account details | Logged in page |
| Log in page | Invalid email/password | Log in page |
| Log in page | User already logged in | Log in page |

**Test Cases:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | Test Description | Expected Outcome | Observed Outcome | Notes |
| 1 | click ‘create account’ button | lands on account creation page |  |  |
| 2 | enter valid account detail to create account | account created user lands back on log in page |  |  |
| 3 | enter invalid account details to create account | account not created, retry message |  |  |
| 4 | Click ‘forgot password’ button | lands on forgotten password page |  |  |
| 5 | Click back button in account creation page | Ingress to log in page |  |  |
| 6 | enter valid email | request sent to email, land back on log in page |  |  |
| 7 | enter invalid email | Request not sent, retry message |  |  |
| 8 | Click back button in forgotten password page | Ingress to log in page |  |  |
| 9 | Enter valid account details to log in | Ingress to logged in page |  |  |
| 10 | Enter invalid account details to log in | User not logged in, retry message |  |  |
| 11 | Enter valid account details of a user already logged in | User not logged in, retry message |  |  |
| 12 | Change user details while logged in | Stays on logged in page |  |  |
| 13 | Delete account while logged in, attempt to log in with same details | User is logged out and cannot log into same account again |  |  |
| 14 | User signs out of account | Lands on log in page |  |  |

**Notes:**

* Do I need to expand on invalid or valid password/email
* Do states all need to interlink with each other or can they be kept separate
* For test cases, do they always need to specify where the page focus lands (etc if invalid, do I need to specify the page does not change)
* Do I need to test that the specific accounts have been created or deleted?