| Manual Cases | | | | | |
|------------------|--|---|---|-------------|--|
| Test Case ID | Test Scenario | Preconditions | Test Steps | Test Data | Expected Result |
| TC01 | Should Verify UI elements are present on input page | User opens https: //agrichain.com/qa/input | Navigate to input page 2. Observe screen | - | Page displays input field, submit button, login/register links |
| TC02 | Should Validate input field accepts valid string | None | 1. Enter "abcabcbb" 2. Click Submit | abcabcbb | Redirect to result page with output 3 |
| TC03 | Should verify when empty input is submitted error message is displayed | None | 1. Leave input blank 2. Click Submit | (blank) | Error message shown like "Input cannot be empty" |
| TC04 | Should verify when input is unique characters length of the string is returned | None | 1. Enter abcdefg 2. Click Submit | abcdefg | Redirect to result page with output 7 |
| TC05 | Should verify app behaviour for long string input | None | Enter string with 10,000+ characters Click Submit | longstring | App responds within 5 seconds, valid output displayed |
| TC06 | Should verify Back to Home functionality | On result page | 1. Click "Back to Home" button | - | Redirects to input page |
| TC07 | Should validate navigation from /qa/input link to /qa/result link on submission of valid input | abcabcbb | Navigate to result | UI check | Sucecessful navigation to result page |
| TC08 | Should validate when clicked on Back to Home it navigest to home page | Click Back | Redirects to input | Navigation | Successful navigation to home screen |
| TC09 | Should verify Login/Register links on valid input | Click Login/Register | Login/Register Page | UI Elements | Successful login on correct inputs |
| Automation Cases | | | | | |
| Test Case ID | Test Scenario | Preconditions | Test Steps | Test Data | Expected Result |
| TC_AUTO_001 | Validate longest substring output for repeating chars | Open input page | 1. Enter abcabcbb 2. Click Submit 3. Ca | abcabcbb | Output = 3 on result page |
| TC_AUTO_002 | Validate longest substring output for unique chars | Open input page | 1. Enter abcdef 2. Click Submit 3. Captu | abcdef | Output = 6 |
| TC_AUTO_003 | Handle special characters | Open input page | 1. Enter @abc@de 2. Click Submit 3. C | @abc@de | Output = 5 |
| TC_AUTO_004 | Submit blank input and validate error | Open input page | 1. Click Submit without input | (blank) | Inline error message displayed |
| TC_AUTO_005 | Verify result page loads correctly | Input page working | 1. Enter xyz 2. Submit 3. Check result | xyz | URL is /qa/result, output is visible |