

KitRate frontend Testing

Manual Functionality Testing:

Page loading:

- Expected: With page deployed, home page should load with no errors
- Testing: open page from Heroku app
- Result: Page is displaying as expected. Console errors are as follows:
 - Unauthorised errors relating to the User not yet being logged in - expected
 - Two errors pertaining to children in a list having a unique key prop:
 - Unclear where this is coming from. Have checked through the code and when ever mapping through a list, an id related to unique data has been used. Needs more investigation to clear but isn't effecting the functionality of the site.
 - One error relating to <a> should not be a descendent of <a>:
 - Also unclear where this is coming from. Have check through code for <a> elements and also bootstrap <Link> elements and there are no descendants. Needs more investigation to clear but isn't effecting the functionality of the site.
- Fix: All errors that can be addressed have been, the errors listed above need more investigation before they can be cleared but do not effect the functionality of the site.

Data loading:

- Expected: Whilst waiting for API requests, display a loading symbol.
- Testing: Product list, popular categories, reviews list
- Result: Product list, categories and reviews show loading symbol
- Fix: N/A

NavBar:

- Conditional rendering tested using automated testing - see NavBar.test.js. This can be run with terminal command "npm test".
- Result: Tests run and confirm no errors
- Fix: N/A

Home page:

- Expected: Content is displaying as expected in mobile and desktop views
- Testing: Using Chrome Dev Tools, emulate each device and look for unexpected content displays
- Result: Mobile popular categories very scrunched up, not taking full width of the screen
- Fix: Mobile prop not being handled properly in the CSS - temporary work around implemented so there are no clashes in the mobile screen size but could look better on the desk top version.

Sign-up:

- Expected: In full-screen view, using the nav-bar click on the "Sign-up" link and takes you to the Sign-Up page
- Testing: Navigate to the "Sign-Up" button and click on it
- Result: Takes user to sign-up page
- Fix: N/A
- Expected: In mobile view, using the collapsed nav-bar (hamburger) click on the "Sign-up" link and takes you to the Sign-Up page
- Testing: Navigate to the "Sign-up" button and click on it
- Result: Takes user to sign-up page
- Fix: N/A
- Expected: Entering a blank username is presented with an error
- Testing: Sign-up with a blank username
- Result: Prompt given to enter a username
- Fix: N/A

- Expected: To sign-up, a username can be entered using free-text
- Testing: Enter text into the username field
- Result: Text entered as expected
- Fix: N/A

- Expected: A user name that has already been used is rejected with an error
- Testing: Enter an existing username
- Result: Error presented and told to sign-in instead
- Fix: N/A

- Expected: Password entry doesn't meet the defined requirements and an error is displayed
- Testing: Enter a poor password
- Result: Error presented with recommendations to improve the password
- Fix: N/A

- Expected: Second password doesn't match the first password and an error is displayed
- Testing: Enter a differing second password
- Result: Error presented with recommendations to improve the password
- Fix: N/A

- Expected: Sign-in button creates a working log-in for the user
- Testing: Create a log-in
- Result: User redirected to sign-in page
- Fix: N/A

- Expected: Sign-in link navigates to the home page
- Testing: Create a log-in
- Result: Log-in is redirected to home page
- Fix: N/A

- Expected: Click the "KitRate logo" takes the user back to the home page
- Testing: Click the logo
- Result: Navigates to home page
- Fix: N/A

Log-In and Log-Out:

- Expected: In full-screen view, using the nav-bar click on the "Sign-in" link and takes you to the Sign In page
- Testing: Navigate to the "Sign-in" button and click on it
- Result: Takes user to sign-in page
- Fix: N/A

- Expected: In mobile view, using the collapsed nav-bar (hamburger) click on the "Sign-in" link and takes you to the Sign In page
- Testing: Navigate to the "Sign-in" button and click on it
- Result: Takes user to sign-in page
- Fix: N/A

- Expected: Entering a blank username is presented with an error
- Testing: Log-in with a blank username
- Result: No error presented
- Fix: Add "required" attribute to username

- Expected: To log-in, a username can be entered using free-text
- Testing: Enter text into the username field
- Result: Text entered as expected
- Fix: N/A

- Expected: Entering a user name that hasn't been registered is rejected with an error
- Testing: Enter incorrect log-in details
- Result: Error presented with prompt that log-in details are incorrect
- Fix: N/A

- Expected: An incorrectly entered password is presented with an error
- Testing: Enter incorrect log-in details
- Result: Error presented with prompt that log-in details are incorrect
- Fix: N/A

- Expected: Correct log-in credentials allow the user to log-in as expected
- Testing: Log-in with known credentials
- Result: User redirected to home page
- Fix: N/A

- Expected: Upon logging in the user is redirected to the home page
- Testing: Log-in successfully
- Result: Redirected to home page
- Fix: N/A

- Expected: In full-screen view, using the nav-bar click on the "Sign-out" link and takes you to the Sign Out page
- Testing: Navigate to the "Sign-out" button and click on it
- Result: Takes user to home page
- Fix: N/A

- Expected: In mobile view, using the collapsed nav-bar (hamburger) click on the "Sign-out" link and takes you to the Sign Out page
- Testing: Navigate to the "Sign-out" button and click on it
- Result: Takes user to home page
- Fix: N/A

- Expected: Sign-out button signs out the user as expected
- Testing: Click sign-out button
- Result: Signs out as expected
- Fix: N/A

- Expected: After signing out the user is redirected to the home page
- Testing: Click sign-out button and redirect to home page
- Result: Redirected as expected
- Fix: N/A

Products:

View products:

- Expected: List of products displayed on the home page
- Testing: Visit home page and confirm list of products
- Result: Products listed as expected
- Fix: N/A

- Expected: List of products is ordered in the most recent first
- Testing: Confirm ordering for list of products
- Result: Ordering incorrect, oldest first
- Fix: Bug raised to be addressed in next iteration

- Expected: From product list, each product displays category, rating, title, description, count of favourites and count of reviews
- Testing: View a product and confirm data is present
- Result: Displaying all information as required
- Fix: N/A

- Expected: Clicking on a product navigates to a dedicated product page
- Testing: Confirm navigation is successful
- Result: Navigated to product page successfully
- Fix: N/A

Create a product:

- Expected: In full-screen view, using the nav-bar click on the “Add product” link and takes you to the Add product page
- Testing: Navigate to the “Add Product” button and click on it
- Result: Takes user to Add Product page
- Fix: N/A
- Expected: Entering a blank product title is presented with an error
- Testing: Add product with a blank title
- Result: Prompt given to enter a title
- Fix: N/A
- Expected: To add a product, a title can be entered using free-text
- Testing: Enter text into the title field
- Result: Text entered as expected
- Fix: N/A
- Expected: Entering a blank product category is presented with an error
- Testing: Add product with a blank category
- Result: No prompt given, required attribute added but still no prompt
- Fix: Added as a bug for future work to investigate why the required attribute and error handling isn’t working
- Expected: To add a product, a category can be selected from the drop-down menu
- Testing: Select a category
- Result: Category selected successfully
- Fix: N/A
- Expected: Entering a blank product rating is presented with an error
- Testing: Add product with a blank rating
- Result: No prompt given, required attribute added but still no prompt
- Fix: Added as a bug for future work to investigate why the required attribute and error handling isn’t working
- Expected: To add a product, a rating can be selected from the drop-down menu
- Testing: Select a rating
- Result: Rating selected successfully
- Fix: N/A
- Expected: Entering a blank review is presented with an error
- Testing: Add product with a blank review
- Result: Prompt given to enter a review
- Fix: N/A
- Expected: To add a product, a review can be left in the free text field
- Testing: Leave some text as a review
- Result: Review entered successfully
- Fix: N/A
- Expected: cancel button deletes data entered and redirects user back to previous page
- Testing: click cancel button
- Result: User redirected as expected
- Fix: N/A

- Expected: Create button submits data, redirects user to newly created product page and new product can be seen with all data present
- Testing: Click create, find product and observer data is correct
- Result: Product created successfully
- Fix: N/A

Edit a product:

- Expected: Option to edit a product must only be available if the logged in user owns the product
- Testing: Click edit on an appropriate product
- Result: Only owned products have edit ability
- Fix: N/A
- Expected: Form pre-filled with information from the product
- Testing: Click edit button and check information is pre-filled and correct
- Result: Category selection is showing ID rather than category name.
- Fix: Work around fix with text stating "Choose new category", need more investigating to pre-fill the correct info. If the user doesn't select a new category it'll default to the current value.
- Expected: Able to edit the information as desired
- Testing: Edit each field
- Result: Free to edit as desired
- Fix: N/A
- Expected: Upon submitting the edited information, the updated product is published
- Testing: Edit booking
- Result: Updated as expected
- Fix: N/A
- Expected: Upon the edited product being published, user redirected to product page
- Testing: Submit edited product
- Result: Submitted edits are successful and user redirected to the product page
- Fix: N/A
- Expected: Can cancel adding a new product and redirect to previous page
- Testing: Cancel new product
- Result: Cancel button takes user back to previous page (Product page)
- Fix: N/A

Favourite a product

Product page:

- Expected: Can favourite/unfavourite a product by clicking on the heart
- Testing: Favourite and unfavourite a product
- Result: Number increments and decrements when favouriting and unfavouriting
- Fix: N/A
- Expected: Shows if the product has already been favoured by a user
- Testing: Favourite a product and observe
- Result: Red heart shown for a favoured product
- Fix: N/A
- Expected: Cannot favourite product if not logged in
- Testing: Ensure logged out and try to favourite a product
- Result: On screen warning stating user must be logged in
- Fix: N/A

- Expected: Favourites page loads list of products based on the user's favourites
- Testing: Ensure one product is favourited, check this is in the "Favourites" page
- Result: Page loaded with product as expected
- Fix: N/A
- Expected: If a user hasn't favourited any products, a "no-results found" message is displayed
- Testing: Click "Favourites" link and observe results
- Result: No results found prompt given to the user
- Fix: N/A

Reviews

View reviews:

- Expected: List of product reviews related to a specific product
- Testing: Visit a product page and look for a list of reviews
- Result: Viewing "2023 Specialized Stumpjumper Carbon Comp" with list of reviews from users
- Fix: N/A
- Expected: If a product has no reviews, a message must be displayed stating this
- Testing: Visit a product page with no reviews
- Result: This shouldn't be possible as adding a new product necessitates a rating and a review
- Fix: N/A
- Expected: Review must contain the free-text content and rating submitted by the user
- Testing: Confirm content and rating is present
- Result: Rating option and free text review present
- Fix: N/A
- Expected: Review must contain the user's name and when it was posted
- Testing: Confirm user name and posted date is present
- Result: Username and posted date present
- Fix: N/A

Create a review:

- Expected: Functionality to create a review can only be accessed by users who are logged in
- Testing: Visit product page and look for review form
- Result: Review form present and intuitive to use
- Fix: N/A
- Expected: Rating field cannot be left blank
- Testing: Submit form with field left blank
- Result: No error presented but form will not submit with blank entries
- Fix: Log bug and review. Required attribute on the form field and error handling isn't working as expected
- Expected: Rating field will accept values 1-5
- Testing: Enter data into the field
- Result: Selection options working as expected
- Fix: N/A
- Expected: Content field cannot be left blank
- Testing: Submit form with field left blank
- Result: No error presented but form will not submit with blank entries
- Fix: Log bug and review. Required attribute on the form field and error handling isn't working as expected

- Expected: Content field will accept text
- Testing: Enter data into the field
- Result: Field accepts entry as expected
- Fix: N/A
- Expected: Submit button allows user to submit review
- Testing: Submit form
- Result: Review submitted successfully
- Fix: N/A
- Expected: Upon submitting review, it is listed at the top of the product reviews
- Testing: Submit form
- Result: Review added and displayed as expected
- Fix: N/A

Edit a review:

- Expected: Option to edit a review must only be available if the logged in user owns the review
- Testing: Click edit on a review
- Result: Only reviews left by logged in user are available for edit, edit function works as expected
- Fix: N/A
- Expected: Form pre-filled with information from the review
- Testing: Click edit button and check information is pre-filled and correct
- Result: Information present and correct
- Fix: N/A
- Expected: Able to edit the information as desired
- Testing: Edit content and rating
- Result: Free to edit as desired
- Fix: N/A
- Expected: Upon submitting the edited information, the updated review is published
- Testing: Edit review, submit and observe updated review
- Result: Published as expected
- Fix: N/A
- Expected: Can cancel the editing of a review and return to the current information
- Testing: Cancel editing
- Result: Review edit form closed and returns to list of reviews under product
- Fix: N/A

Delete a review:

- Expected: Option to delete a review must only be available if the logged in user owns the review
- Testing: Click delete on a review
- Result: Only reviews left by logged in user are available for deletion, function works as expected
- Fix: N/A
- Expected: Upon deleting the review it must be removed from the list of reviews and from the API
- Testing: Delete a review
- Result: Confirm review removed from front end and back end
- Fix: N/A

Categories:

Home page:

- Expected: Most popular categories are displayed on the home page in mobile and desktop form
- Testing: Observe categories in desktop and mobile screen sizes
- Result: Categories display as expected in both screen sizes
- Fix: N/A
- Expected: Button available to subscribe / unsubscribe to a category
- Testing: Observe subscription buttons
- Result: Button available and rendering depending on status of subscription. Clicking a subscribe button does update the subscriptions but doesn't refresh the component
- Fix: Added as a bug, needs investigating further to force refresh after handleSubscribe/handleUnsubscribe
- Expected: List of categories shows if the user has subscribed or not to each one
- Testing: Observe categories to determine if subscribed or not
- Result: Subscribe/Unsubscribe buttons showing as expected
- Fix: N/A
- Expected: Cannot subscribe to a category if user is not logged in
- Testing: Observe subscribe/unsubscribe buttons
- Result: Button not present when not logged in
- Fix: N/A
- Expected: Link present to category page from product
- Testing: Click link to test navigation
- Result: Link under product links to correct category as expected
- Fix: N/A
- Expected: Link present to category page from popular categories
- Testing: Click link to test navigation
- Result: Link in popular categories links to correct category as expected
- Fix: N/A
- Expected: Category page displays the title, count of subscribers and count of products
- Testing: Observe statistics on the page
- Result: Stats displayed as expected
- Fix: N/A
- Expected: Category page lists all products that are in the specific category
- Testing: Observe products in a category
- Result: Expected products for the test category (Bikes) are present as expected
- Fix: N/A

Feed:

- Expected: Navbar link "Feed" directs to feed page as expected
- Testing: Click on "Feed" link and observe result
- Result: Navigates as expected
- Fix: N/A
- Expected: Feed page products are related to the logged in user's subscribed categories
- Testing: Create a new user and view the feed page, page should be empty with "No Results Found" being displayed
- Result: Viewed feed page with no subscriptions and displays "No results" as expected
- Fix: N/A

- Expected: Feed page products are related to the logged in user's subscribed categories
- Testing: Subscribe to a category and observe feed page for relevant products
- Result: Subscribed to "Bikes" and the products related to that category are shown
- Fix: N/A

Favourites:

- Expected: Navbar link "Favourites" directs to feed page as expected
 - Testing: Click on "Favourite" link and observe result
 - Result: Navigates as expected
 - Fix: N/A
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- Expected: Favourite page products are related to the logged in user's favourited products
 - Testing: Create a new user and view the favourites page, page should be empty with "No Results Found" being displayed
 - Result: Viewed favourite page with no favourited products and displays "No results" as expected
 - Fix: N/A
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- Expected: Favourites page products are related to the logged in user's favourited products
 - Testing: Favourite a product and observe favourite page for that product
 - Result: Favourited a product and displayed on the favourite page as expected
 - Fix: N/A