



TESTING REPORT

Front-end automated testing

For motor culture Australia web application

Vinh Phuc (Ronald) Hoang

Intern Software Developer

Q1 Design

Abstract

The report illustrates the development and result of the automated end-to-end testing framework on major front-end functionalities of Motor Culture Australia's web application. The testing framework serves as a tool to measure requirements and performance of the current application, as well as any future upgrade version of it.

Major front-end requirements were identified to separated into components for easy management. Twenty process flows were designed to cover and test all requirements. The process flows were then automated into test scripts, using JavaScript programming language and Playwright library.

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Introduction

Client background

The client for this project is Motor Culture Australia (MCA). The organization builds an open community for motor vehicles enthusiasts with events, prizes and giveaways. Membership with additional benefits is offered as a subscription-based service.

Q1 Design has developed a web application for MCA for branding and e-commerce purposes. There are many proposals to upgrade the web application, including:

- Transferring to new technologies,
- Implementing seamless, gamified user interactions,
- Adding new features.

Benefits

This end-product of this project provides an automated testing framework for MCA's current web application.

The term 'testing' refers to confirming if major functionalities of the current web application are met. When future enhancements are implemented, testing provide confidence that those major functionalities are still intact. In cases of failure, the framework can list which original functionalities are altered.

The term 'automated' refers to the low consumption of human labor and time of the testing procedure. The framework provides tests as computer scripts, therefore the testing procedure, in human terms, can be done in a few keyboard presses.

Scope

With the afore-mentioned objectives in mind, the deliverables of this project include:

- A testing report for MCA's web application, including:
 - A list of functional requirements,
 - A list of major user interactions,

- A list of tests,
- Report coverage of requirements.
- A suite of testing scripts executable on MCA's web application, major functionalities will be tested are:
 - Navigation to all pages
 - Shop – add items to cart
 - Form handling/verification
- Documentation of how to use the test suite.

It is worth-mentioning the items that will not be included in this project, which are:

- Back-end testing – the tests focus solely on user interactions with the web application, the test developer does not have access to MCA's database or web server and therefore does not provide testing to those components; some server responses are mocked to imitate real user interactions while isolating MCA's server and database in the production environment; for example, data-driven content such as 'Current Giveaways' or 'Store items' can differ from between tests, authentications and transactions traffic are mocked.
- Content testing – actually content displayed on pages can be dynamic; changes to the content do not affect the applications functionalities; therefore, there is no need to test it.
- UX/UI factor testing – UX/UI elements such as visual appeal, page structure will not be tested by this project, it requires manual judging by a visual designer.
- Testing tools and technologies – documentations that come with the test suit list the technical requirements to execute them; Q1 Design does not provide them out-of-the-box; the tester needs to follow provided instructions to install the requirements; despite that, the tools and technologies used in this project are open-sourced that do not require extensive hardware; therefore, it should not be a considerable issue for an average computer to perform testing.

Definitions and Acronyms

Acronym	Definition
Etc.	Et cetera A Latin expression used in English to mean “and other similar things”.
HTML	HyperText Markup Language The standard markup language for web pages. It is used to describes the structure and content of web pages.
MCA	Motor Culture Australia Q1 Design’s client for this project. The organization builds an open community for motor vehicles enthusiasts with events, prizes and giveaways. Membership with additional benefits is offered as a subscription-based service.
URL	Uniform Resource Locator A form of addressing resources on web. It references to the location of a web resource on a computer network.
UX/UI	User Experience/ User Interface An aspect of software development focusing on enhancing front-end interactions with end-users, ensuring software systems are friendly, enjoyable and accessible for end-users.

Requirements

This section lists all requirements of every page in MCA's current web site in precise wordings. The list helps identifying all functionalities the tests must cover.

ID	Definition
Header	
1.1	A title of MCA displayed
1.1.1	When clicked on, the title directs the user to the home page
1.2	A 'Cart' button displayed
1.2.1	When clicked on, the 'Cart' button directs the user to the 'Cart' page
1.3	A 'Menu' toggle button displayed
1.3.1	When clicked on, the 'Menu' button expands a list of buttons, including:
1.3.2	A 'Home' button
1.3.2.1	When clicked on, the 'Home' button directs the user to the home page
1.3.3	An 'Events' button
1.3.3.1	When clicked on, the 'Events' button directs the user to the 'Events' page
1.3.4	A 'Benefits' button
1.3.4.1	When clicked on, the 'Benefits' button directs the user to the 'Benefits' page
1.3.5	A 'Current Giveaways' button
1.3.5.1	When clicked on, the 'Current Giveaways' button directs the user to the 'Current Giveaways' page
1.3.6	A toggle button for the 'Current Giveaways' menu item
1.3.6.1	When the current giveaways list is closed and the toggle button is clicked on, the current giveaways list expands
1.3.6.2	When clicked on, an item of the current giveaways list directs the user to the page of the giveaway
1.3.6.3	When the current giveaways list is expanded on the toggle button is clicked on, the current giveaways list closes
1.3.7	A 'Winners' button
1.3.7.1	When clicked on, the 'Winners' button directs the user to the 'Winners' page
1.3.8	A 'Shop' button

1.3.8.1	When clicked on, the 'Shop' button directs the user to the 'Shop' page
1.3.9	A 'FAQ's' button
1.3.9.1	When clicked on, the 'FAQ's' button directs the user to the 'FAQ's' page
1.3.10	A 'Contact' button
1.3.10.1	When clicked on, the 'Contact' button directs the user to the 'Contact' page
1.3.11	A toggle button for the 'Contact' menu item
1.3.11.1	When the contact list is closed and the toggle button is clicked on, the contact list expands
1.3.11.2	The contact list has a 'About' button displayed
1.3.11.3	When clicked on, the 'About' button directs the user to the 'About' page
1.3.11.4	When the contact list is expanded on the toggle button is clicked on, the contact list closes
1.3.12	A 'My account' button displayed
1.3.12.1	When clicked on, the 'My account' button directs the user to the 'My account' page
1.3.13	When the menu is expanded and clicked on, the menu closes
1.4.1	The header is displayed in the home page
1.4.2	The header is displayed in the 'Events' page
1.4.3	The header is displayed in the 'Benefits' page
1.4.4	The header is displayed in the 'Current Giveaways' page
1.4.5	The header is displayed in any giveaway page
1.4.6	The header is displayed in the 'Winners' page
1.4.7	The header is displayed in the 'Shop' page
1.4.8	The header is displayed in the 'FAQ's' page
1.4.9	The header is displayed in the 'Contact' page
1.4.10	The header is displayed in the 'About' page
1.4.11	The header is displayed in the 'Cart' page
1.4.12	The header is displayed in the 'My account' page
1.4.13	The header is displayed in the 'Terms and Conditions' page
1.4.14	The header is displayed in the 'Privacy Policy' page
1.4.15	The header is displayed in the 'Refund Policy' page
1.4.16	The header is displayed in the 'Terms of Service' page

1.4.17	The header is displayed in the 'Partners' page
1.4.18	The header is displayed in the 'Partners Terms and Conditions' page
1.4.19	The header is displayed in the 'New VIP' page
1.4.20	The header is displayed in the 'VIP Members Club Terms and Conditions' page
Footer	
2.1	A 'Terms and Conditions' link
2.1.1	When clicked on, the 'Terms and Conditions' link directs the user to the 'Terms and Conditions' page
2.2	A 'Privacy Policy' link
2.2.1	When clicked on, the 'Privacy Policy' link directs the user to the 'Privacy Policy' page
2.3	A 'Refund Policy' link
2.3.1	When clicked on, the 'Refund Policy' link directs the user to the 'Refund Policy' page
2.4	A 'Terms of Service' link
2.4.1	When clicked on, the 'Terms of Service' link directs the user to the 'Terms of Service' page
2.5	A 'Contact' link
2.5.1	When clicked on, the 'Contact' link directs the user to the 'Contact' page
2.6.1	The footer is displayed in the home page
2.6.2	The footer is displayed in the 'Events' page
2.6.3	The footer is displayed in the 'Benefits' page
2.6.4	The footer is displayed in the 'Current Giveaways' page
2.6.5	The footer is displayed in any giveaway page
2.6.6	The footer is displayed in the 'Winners' page
2.6.7	The footer is displayed in the 'Shop' page
2.6.8	The footer is displayed in the 'FAQ's' page
2.6.9	The footer is displayed in the 'Contact' page
2.6.10	The footer is displayed in the 'About' page
2.6.11	The footer is displayed in the 'Cart' page
2.6.12	The footer is displayed in the 'My account' page
2.6.13	The footer is displayed in the 'Terms and Conditions' page

2.6.14	The footer is displayed in the 'Privacy Policy' page
2.6.15	The footer is displayed in the 'Refund Policy' page
2.6.16	The footer is displayed in the 'Terms of Service' page
2.6.17	The footer is displayed in the 'Partners' page
2.6.18	The footer is displayed in the 'Partners Terms and Conditions' page
2.6.19	The footer is displayed in the 'New VIP' page
2.6.20	The footer is displayed in the 'VIP Members Club Terms and Conditions' page
Home page	
3.1	A 'Join our partner network' link displayed
3.1.1	When clicked on, the 'Join our partner network' link directs the user to the 'Partners' page
3.2	A 'Sign up as a VIP' button displayed
3.2.1	When clicked on, the 'Sign up as a VIP' button directs the user to the 'New VIP' page
3.3	A Facebook link displayed
3.3.1	When clicked on, the Facebook link directs the user to MCA's Facebook page
3.4	A YouTube link displayed
3.4.1	When clicked on, the YouTube link directs the user to MCA's YouTube channel
3.5	An Instagram link displayed
3.5.1	When clicked on, the Instagram link directs the user to MCA's Instagram page
3.6	A TikTok link displayed
3.6.1	When clicked on, the TikTok link directs the user to MCA's TikTok channel
'Events' page	
4.1	A 'Register for events' button displayed
4.1.1	When clicked on, the 'Register for events' button directs the user to MCA's EventBrite page
4.2	A 'Partners' button displayed
4.2.1	When clicked on, the 'Partners' button directs the user to the 'Partners' page
4.3	Upcoming events displayed

'Benefits' page	
5.1	A 'VIP sign up' button displayed
5.1.1	When clicked on, the 'VIP Sign up' button directs the user to the 'New VIP' page
5.2	A 'Sign up' button displayed
5.2.1	When clicked on, the 'Sign up' button directs the user to the 'Current giveaways' page
5.3	A 'Partners' button displayed
5.3.1	When clicked on, the 'Partners' button directs the user to the 'Partners' page
'Current Giveaways' page	
6.1	A 'VIP sign up' button displayed
6.1.1	When clicked on, the 'VIP Sign up' button directs the user to the 'New VIP' page
6.2	A button for each giveaway displayed
6.2.1	When clicked on, the giveaway button directs the user to that giveaway's page
Giveaway pages (for each current giveaway)	
7.1	A '1 Entry' button displayed
7.2	A '10 Entries' button displayed
7.3	A '30 Entries' button displayed
7.4	A '100 Entries' button displayed
7.5	A 'Lock in' button displayed
7.5.1	If no entry button is clicked on, the 'Lock in' button shows '1 Entry for \$25'
7.5.2	If the '1 Entries' button is clicked on, the 'Lock in' button shows '1 Entries for \$25'
7.5.3	If the '10 Entries' button is clicked on, the 'Lock in' button shows '10 Entries for \$100'
7.5.4	If the '30 Entries' button is clicked on, the 'Lock in' button shows '30 Entries for \$200'
7.5.5	If the '100 Entries' button is clicked on, the 'Lock in' button shows '100 Entries for \$400'
7.5.6	When clicked on, the 'Lock in' button adds the level displayed to the user's cart
7.5.7	When clicked on, the 'Lock in' button directs the user to the 'Checkout' page

‘Winners’ page	
8.1	A playlist of handover video displayed
8.1.1	When an item of the playlist is clicked on, the handover video plays
8.2	A button for each draw livestream displayed
8.2.1	When clicked on, the button for a draw livestream directs the user to MCA’s Facebook livestream post.
‘Shop’ page	
9.1	A button for each category displayed
9.1.1	When clicked on, the button for a category directs the user to that category’s page
9.2	In a category’s page, every item has a name displayed
9.2.1	When clicked on, an item’s name directs the user to that item’s page
9.3	In a category’s page, every item has a ‘Buy now’ button displayed
9.3.1	When clicked on, the ‘Buy now’ button directs the user to the ‘Check out’ page
9.3.2	When clicked on, the ‘Buy now’ button adds the item to the user’s cart
‘Contact’ page	
10.1	A Facebook link displayed
10.1.1	When clicked on, the Facebook link directs the user to MCA’s Facebook page
10.2	A YouTube link displayed
10.2.1	When clicked on, the YouTube link directs the user to MCA’s YouTube channel
10.3	An Instagram link displayed
10.3.1	When clicked on, the Instagram link directs the user to MCA’s Instagram page
10.4	A contact form displayed
10.4.1	The contact form includes a ‘Name’ field
10.4.2	The contact form includes an ‘Email’ field
10.4.3	The contact form includes a ‘Message’ field
10.4.4	The contact form includes a ‘Send’ button
10.4.4.1	When the ‘Send’ button is clicked on and the ‘Email’ field is empty, the user is notified to fill the ‘Email’ field
10.4.4.2	When the ‘Send’ button is clicked on and the ‘Email’ field is filled with invalid email

	structure (no @), the user is notified to fill the 'Email' field with the correct content
10.4.4.3	When the 'Send' button is clicked on and the 'Email' field is filled with valid email structure, the user is notified that their enquiry is sent
'Cart' page	
11.1	A list of added items displayed
11.1.1	Each item has a 'Remove' button
11.1.1.1	When clicked on, the 'Remove' button removes that item from the cart
11.1.1.2	When an item is removed, the user is notified that the item is removed
11.1.1.3	When an item is removed, an 'Undo' button displayed
11.1.1.4	When clicked on, the 'Undo' button adds the last removed item to the cart
11.1.2	Each item has a button to change quantity
11.1.2.1	The button to change quantity cannot go below 0
11.1.2.2	If an item's quantity is changed to 0, the item is removed from the cart
11.2	If the list is not empty, 'Proceed to checkout' button displayed
11.2.1	When clicked on, the 'Proceed to checkout' button directs the user to the 'Checkout' page
11.3	If the list is empty, the user is notified that the list is currently empty
11.4	If the list is empty, 'Return to shop' button displayed
11.4.1	When clicked on, the 'Return to shop' button directs the user to the 'Shop' page
11.5	A total price displayed, that is sum of all item's subtotal
'Checkout' page	
12.1	If the user is not logged in, a notification with a 'Log in' button displayed
12.1.1	When clicked on, the 'Log in' button directs the user to the 'My account/ Log in' page
12.2	A 'Coupon or gift card' button
12.2.1	When clicked on, the 'Coupon or gift card' button displays a discount code form
12.2.2	The discount code form has a field to enter a code
12.2.3	The discount code form has a 'Apply code' button
12.2.3.1	When the 'Apply code' button is clicked on and the discount code field is empty, the user is notified to enter a code

12.2.3.2	When the 'Apply code' button is clicked on and the discount code field is filled with an invalid code, the user is notified that the Coupon/Gift Card is not found
12.2.3.3	When the 'Apply code' button is clicked on and the discount code field is filled with a valid code, the user is notified that the code is applied
12.3	A 'Your details' form displayed
12.3.1	The 'Your details' form has a 'Email address' field
12.3.2	The 'Your details' form has a 'First name' field
12.3.3	The 'Your details' form has a 'Last name' field
12.3.4	The 'Your details' form has a 'Contact number' field
12.3.5	The 'Your details' form has a 'Phone format' selection box
12.3.5.1	The 'Phone format' selection box has a 'Mobile' option
12.3.5.2	The 'Phone format' selection box has a 'Landline' option
12.3.5.3	The 'Mobile' option is selected by default
12.3.6	The 'Your details' form has a 'State' selection box
12.3.6.1	The 'State' selection box has a 'Australian Capital Territory' option
12.3.6.2	The 'State' selection box has a 'New South Wales' option
12.3.6.3	The 'State' selection box has a 'Northern Territory' option
12.3.6.4	The 'State' selection box has a 'Queensland' option
12.3.6.5	The 'State' selection box has a 'Tasmania' option
12.3.6.6	The 'State' selection box has a 'Victoria' option
12.3.6.7	The 'State' selection box has a 'Western Australia' option
12.3.6.8	The 'Queensland' option is selected by default
12.4	A 'Card details' form displayed
12.4.1	The 'Card details' form has a 'Card number' field
12.4.2	When the 'Card number' field is filled, the 'Card details' form displays a 'Expiry date' field
12.4.3	When the 'Card number' field is filled, the 'Card details' form displays a 'CVC' field
12.5	A 'Terms and Conditions' checkbox displayed
12.6	A 'Place order' button displayed
12.6.1	When the 'Place order' button is clicked and the 'Email address' field of the 'Your details' form is unfilled, the user is notified to fill the 'Email address' field of the 'Your details' form

12.6.2	When the 'Place order' button is clicked and the 'First name' field of the 'Your details' form is unfilled, the user is notified to fill the 'First name' field of the 'Your details' form
12.6.3	When the 'Place order' button is clicked and the 'Last name' field of the 'Your details' form is unfilled, the user is notified to fill the 'Last name' field of the 'Your details' form
12.6.4	When the 'Place order' button is clicked and the 'Contact number' field of the 'Your details' form is unfilled, the user is notified to fill the 'Contact number' field of the 'Your details' form
'Partners' page	
13.1	A 'Get in touch' form displayed
13.1.1	The 'Get in touch' form has a 'Your name' field
13.1.2	The 'Get in touch' form has a 'Business name' field
13.1.3	The 'Get in touch' form has a 'Email' field
13.1.4	The 'Get in touch' form has a 'Daytime phone number' field
13.1.5	The 'Get in touch' form has a 'Message' field
13.1.6	The 'Get in touch' form has a send button
13.1.6.1	When the send button is clicked and the 'Your name' field is not filled, the user is notified to fill the 'Your name' field
13.1.6.2	When the send button is clicked and the 'Business name' field is not filled, the user is notified to fill the 'Business name' field
13.1.6.3	When the send button is clicked and the 'Email' field is not filled, the user is notified to fill the 'Email' field
13.1.6.4	When the send button is clicked and the 'Daytime phone number' field is not filled, the user is notified to fill the 'Daytime phone number' field
13.1.6.5	When the send button is clicked and the 'Message' field is not filled, the user is notified to fill the 'Message' field
13.1.6.6	When the send button is clicked and all fields are filled correctly, the user is notified that the message is sent
13.2	A 'Partner Terms and Conditions' link displayed
13.2.1	When clicked on, the 'Partner Terms and Conditions' link directs the user to the 'Partner Terms and Conditions' page

'New VIP' page	
14.1	A 'Mini VIP' button displayed
14.1.1	When clicked on, the 'Mini VIP' button clears the user's current cart
14.1.2	When clicked on, the 'Mini VIP' button adds the 'Mini VIP subscription' item to the user's cart
14.1.3	When clicked on, the 'Mini VIP' button directs the user to the 'Checkout' page
14.2	A Standard VIP' button displayed
14.2.1	When clicked on, the 'Standard VIP' button clears the user's current cart
14.2.2	When clicked on, the 'Standard VIP' button adds the 'Standard VIP subscription' item to the user's cart
14.2.3	When clicked on, the 'Standard VIP' button directs the user to the 'Checkout' page
14.3	A 'Premium VIP' button displayed
14.3.1	When clicked on, the 'Premium VIP' button clears the user's current cart
14.3.2	When clicked on, the 'Premium VIP' button adds the 'Premium VIP subscription' item to the user's cart
14.3.3	When clicked on, the 'Premium VIP' button directs the user to the 'Checkout' page
14.4	A 'VIP Members Club Terms and Conditions' link
14.4.1	When clicked on, the 'VIP Members Club Terms and Conditions' link directs the user to the 'VIP Members Club Terms and Conditions' page
'My account' menu	
15.1	The 'My account' menu has a 'My dashboard' button
15.1.1	When clicked on, the 'My dashboard' button directs the user to the 'My account/Dashboard' page
15.2	The 'My account' menu has a 'Member offers' button
15.2.1	When clicked on, the 'Member offers' button directs the user to the 'My account/Member offers' page
15.3	The 'My account' menu has a 'Order history' button
15.3.1	When clicked on, the 'Order history' button directs the user to the 'My account/Order history' page
15.4	The 'My account' menu has a 'Account details' button
15.4.1	When clicked on, the 'Account details' button directs the user to the 'My account/

	Account details' page
15.5	The 'My account' menu has a 'Address book' button
15.5.1	When clicked on, the 'Address book' button directs the user to the 'My account/ Address book' page
15.6	The 'My account' menu has a 'Subscriptions' button
15.6.1	When clicked on, the 'Subscriptions' button directs the user to the 'My account/ Subscriptions' page
15.7	The 'My account' menu has a 'Membership history' button
15.7.1	When clicked on, the 'Membership history' button directs the user to the 'My account/ Membership history' page
15.8	The 'My account' menu has a 'Verify entry numbers' button
15.8.1	When clicked on, the 'Verify entry numbers' button directs the user to the 'Verify entry numbers' page
15.9	If the user is logged in, the 'My account' menu has a 'Log out' button
15.9.1	When clicked on, the 'Log out' button logs the user out
15.10.1	The 'My account' menu is displayed in the 'My account/ Dashboard' page
15.10.2	The 'My account' menu is displayed in the 'My account/ Member offers' page
15.10.3	The 'My account' menu is displayed in the 'My account/ Order history' page
15.10.4	The 'My account' menu is displayed in the 'My account/ Account details' page
15.10.5	The 'My account' menu is displayed in the 'My account/ Address book' page
15.10.6	The 'My account' menu is displayed in the 'My account/ Edit billing address' page
15.10.7	The 'My account' menu is displayed in the 'My account/ Edit shipping address' page
15.10.8	The 'My account' menu is displayed in the 'My account/ Subscriptions' page
15.10.9	The 'My account' menu is displayed in the 'My account/ Memberships history' page
'My account/ Dashboard' page	
16.1	If the user is not logged in, a 'Log in' form is displayed
16.1.1	The 'Log in' form has a 'Username' field
16.1.2	The 'Log in' form has a 'Password' field
16.1.3	The 'Log in' form has a 'Log in' button
16.1.3.1	When the 'Log in' button is clicked and the 'Username' field is empty, the user is notified to fill the 'Username' field

16.1.3.2	When the 'Log in' button is clicked and the 'Password' field is empty, the user is notified to fill the 'Password' field
16.1.3.3	When the 'Log in' button is clicked and all fields are filled but the user information is incorrect, the user is notified to try again
16.1.3.4	When the 'Log in' button is clicked and all fields are filled with correct user information, the user is logged in
16.1.4	The 'Log in' form has a 'Forget your password' link
16.1.4.1	When clicked on, the 'Forget your password link' directs the user to the 'My account/ Lost password' page
16.2	If the user is not logged in, a 'Register' form is displayed
16.2.1	The 'Register' form has a 'Email' field
16.2.2	The 'Register' form has a 'Register' button
16.2.3	When the 'Register' button is clicked and the 'Email' field is not filled, the user is notified to fill the 'Email' field
16.2.4	When the 'Register' button is clicked and the 'Email' field is filled incorrectly, the user is notified to fill the 'Email' field with content of an email address structure
16.2.5	When the 'Register' button is clicked and the 'Email' field is filled correctly, the user is notified that an email is sent to their email address to register
16.3	If the user is logged in, a 'Become a VIP now' button displayed
16.3.1	When clicked on, the 'Become a VIP now' button directs the user to the 'New VIP' page
'My account/ Member offers' page	
17.1	If the user is not logged in, the page directs the user to 'My account/ Dashboard' page
17.2	A 'Cancel membership' button displayed
17.2.1	When clicked on, the 'Cancel membership' button directs the user to the 'My account/ Subscriptions' page
'My account/ Order history' page	
18.1	If the user is not logged in, the page directs the user to 'My account/ Dashboard' page
18.2	A list of products ordered displayed
18.3	If no order has been made yet, the user is notified that no order has been made yet.

18.4	Every order has a 'View' button
18.4.1	When clicked on, the 'View' button directs the user to the order's detailed page
'My account/ Account details' page	
19.1	If the user is not logged in, the page directs the user to 'My account/ Dashboard' page
19.2	A 'Account details' form displayed
19.2.1	The 'Account details' form has a 'First name' field
19.2.2	The 'Account details' form has a 'Last name' field
19.2.3	The 'Account details' form has a 'Display name' field
19.2.4	The 'Account details' form has a 'Email address' field
19.2.5	The 'Account details' form has a 'Phone number' field
19.3	A 'Reset my password' form displayed
19.3.1	The 'Reset my password' form has a 'Current password' field
19.3.2	The 'Reset my password' form has a 'New password' field
19.3.3	The 'Reset my password' form has a 'Confirm new password' field
19.4	A 'Save changes' button displayed
19.4.1	When the 'Save changes' button is clicked and the 'First name' field of the 'Account details' form is empty, the user is notified to fill the 'First name' field
19.4.2	When the 'Save changes' button is clicked and the 'Last name' field of the 'Account details' form is empty, the user is notified to fill the 'Last name' field
19.4.3	When the 'Save changes' button is clicked and the 'Display name' field of the 'Account details' form is empty, the user is notified to fill the 'Display name' field
19.4.4	When the 'Save changes' button is clicked and the 'Email address' field of the 'Account details' form is empty, the user is notified to fill the 'Email address' field
19.4.5	When the 'Save changes' button is clicked, the 'Current password' field is filled but the 'New password' field is empty, the user is notified to fill the 'New password' field
19.4.6	When the 'Save changes' button is clicked, the 'Current password' and 'New password' fields are filled but the 'Confirm new password' field is empty, the user is notified to fill the 'Confirm new password' field
19.4.7	When the 'Save changes' button is clicked, all fields of the 'Reset my password' form is filled but the content of the 'New password' field and the 'Confirm new password' field is not the same, the user is notified to correctly confirm the new password

19.4.8	When the 'Save changes' button is clicked and all fields are filled correctly, the user is notified that the changes are saved
'My account/ Address book' page	
20.1	If the user is not logged in, the page directs the user to 'My account/ Dashboard' page
20.2	If the user has a billing address, the billing address is displayed
20.3	If the user has a billing address, a 'Edit billing address' link displayed
20.3.1	When clicked on, the 'Edit billing address' link directs the user to the 'Edit billing address' page
20.4	If the user does not have a billing address, a 'Add billing address' link displayed
20.4.1	When clicked on, the 'Add billing address' link directs the user to the 'Edit billing address' page
20.5	If the user has a shipping address, the shipping address is displayed
20.6	If the user has a billing address, a 'Edit shipping address' link displayed
20.6.1	When clicked on, the 'Edit shipping address' link directs the user to the 'Edit billing address' page
20.7	If the user does not have a billing address, a 'Add shipping address' link displayed
20.7.1	When clicked on, the 'Add shipping address' link directs the user to the 'Edit billing address' page
'My account/ Edit billing address' page	
21.1	A 'Billing address' form displayed
21.1.1	The 'Billing address' form has a 'First name' field
21.1.2	The 'Billing address' form has a 'Last name' field
21.1.3	The 'Billing address' form has a 'Country/Region' field that is filled 'Australia' by default
21.1.4	The 'Billing address' form has a 'Street address' field
21.1.5	The 'Billing address' form has a 'Suburb' field
21.1.6	The 'Billing address' form has a 'State' selection box
21.1.6.1	The 'State' selection box has a 'Australian Capital Territory' option
21.1.6.2	The 'State' selection box has a 'New South Wales' option
21.1.6.3	The 'State' selection box has a 'Northern Territory' option

21.1.6.4	The 'State' selection box has a 'Queensland' option
21.1.6.5	The 'State' selection box has a 'South Australia' option
21.1.6.6	The 'State' selection box has a 'Tasmania' option
21.1.6.7	The 'State' selection box has a 'Victoria' option
21.1.6.8	The 'State' selection box has a 'Western Australia' option
21.1.7	The 'Billing address' form has a 'Postcode' field
21.1.8	The 'Billing address' form has a 'Phone' field
21.1.9	The 'Billing address' form has a 'Email address' field
21.1.10	If the user has a billing address saved, the fields in the 'Billing address' form is filled with the current billing address
21.2	A 'Save address' button displayed
21.2.1	When the 'Save address' button is clicked and the 'First name' field is not filled, the user is notified to fill the 'First name' field
21.2.2	When the 'Save address' button is clicked and the 'Last name' field is not filled, the user is notified to fill the 'Last name' field
21.2.3	When the 'Save address' button is clicked and the 'Street address' field is not filled, the user is notified to fill the 'Street address' field
21.2.4	When the 'Save address' button is clicked and the 'Suburb' field is not filled, the user is notified to fill the 'Suburb' field
21.2.5	When the 'Save address' button is clicked and the 'Postcode' field is not filled, the user is notified to fill the 'Postcode' field
21.2.6	When the 'Save address' button is clicked and the 'Phone' field is not filled, the user is notified to fill the 'Phone' field
21.2.7	When the 'Save address' button is clicked and the 'Email address' is not filled, the user is notified to fill the 'Email address' field
21.2.8	When the 'Save address' button is clicked and all fields are filled, the user is directed to the 'Address book' page
21.2.9	When the 'Save address' button is clicked and all fields are filled, the user is notified the address is saved
'My account/ Edit shipping address' page	
22.1	A 'Shipping address' form displayed
22.1.1	The 'Shipping address' form has a 'First name' field
22.1.2	The 'Shipping address' form has a 'Last name' field

22.1.3	The 'Shipping address' form has a 'Country/Region' field that is filled 'Australia' by default
22.1.4	The 'Shipping address' form has a 'Street address' field
22.1.5	The 'Shipping address' form has a 'Suburb' field
22.1.6	The 'Shipping address' form has a 'State' selection box
22.1.6.1	The 'State' selection box has a 'Australian Capital Territory' option
22.1.6.2	The 'State' selection box has a 'New South Wales' option
22.1.6.3	The 'State' selection box has a 'Northern Territory' option
22.1.6.4	The 'State' selection box has a 'Queensland' option
22.1.6.5	The 'State' selection box has a 'South Australia' option
22.1.6.6	The 'State' selection box has a 'Tasmania' option
22.1.6.7	The 'State' selection box has a 'Victoria' option
22.1.6.8	The 'State' selection box has a 'Western Australia' option
22.1.7	The 'Shipping address' form has a 'Postcode' field
22.1.8	If the user has a shipping address saved, the fields in the 'Shipping address' form is filled with the current shipping address
22.2	A 'Save address' button displayed
22.2.1	When the 'Save address' button is clicked and the 'First name' field is not filled, the user is notified to fill the 'First name' field
22.2.2	When the 'Save address' button is clicked and the 'Last name' field is not filled, the user is notified to fill the 'Last name' field
22.2.3	When the 'Save address' button is clicked and the 'Street address' field is not filled, the user is notified to fill the 'Street address' field
22.2.4	When the 'Save address' button is clicked and the 'Suburb' field is not filled, the user is notified to fill the 'Suburb' field
22.2.5	When the 'Save address' button is clicked and the 'Postcode' field is not filled, the user is notified to fill the 'Postcode' field
22.2.6	When the 'Save address' button is clicked and all fields are filled, the user is directed to the 'Address book' page
22.2.7	When the 'Save address' button is clicked and all fields are filled, the user is notified the address is saved

'My account/ Subscriptions' page	
23.1	If the user is subscribed, the subscription is displayed
23.2	If the user is subscribed, a 'Cancel subscription' button displayed
23.2.1	When the 'Cancel subscription' button is clicked, the user is notified the subscription is cancelled
23.3	If the user is not subscribed, the user is notified that there is no active subscription
23.4	If the user is not subscribed, a 'Browse products' button displayed
23.4.1	When clicked on, the 'Browse products' button directs the user to the 'Shop' page
'My account/ Membership history' page	
23.1	If the user had subscription, a list of subscriptions is displayed
23.2	If the user is had not subscribed before, the user is notified that there is no subscription
'My account/ Verify entry numbers' page	
24.1	A 'Draw' selection box displayed
24.1.1	The 'Draw' selection box has current giveaways as selection
24.2	A 6-digit number field displayed
24.3	A 'Search' button displayed
24.3.1	When the 'Search' button is clicked, the information of the entered entry number is displayed
24.3.2	When the 'Search' button is clicked and the information of the entered entry number is not found, the user is notified the entry number is not found
'My account/ Lost password' page	
25.1	A 'Username or email' field displayed
25.2	A 'Reset password' button displayed
25.2.1	When the 'Reset password' button is clicked and the 'Username or email' field is filled with an invalid username or email, the user is notified that the username or email is invalid
25.2.2	When the 'Reset password' button is clicked and the 'Username or email' field is filled with a valid username or email, the user is notified that the email for resetting password is sent



Testing Report

Front-end Automated Testing
for MCA web application

Process flows

This section lists all process flows required to test all requirements listed above. A process flow can be thought of as a series of actions from a user. These process flows and their respective expected results will be automated by test scripts. Expected results are not repeated if the result is tested by previous actions.

All process flows assumed the user has accessed MCA's web application at the home page and not logged in.

Legend:

- (*) The result displays server's mocked response, MCA's server in the production environment does not perform back-end actions such as transaction recording, authentication, email sending, etc.

ID	Action	Expected result(s)
Navigation menu, Header and Footer		
1.1	Clicks MCA's title on header	User is directed to home page
		Header displayed
		Footer displayed
1.2	Clicks menu button on header	Menu opens
1.3	Clicks menu button on header	Menu closes
1.4	Clicks menu button on header	
1.5	Clicks 'Home' button	User is directed to home page
1.6	Clicks 'Sign up as a VIP' button	User is directed to 'New VIP' page
		Header displayed
		Footer displayed
1.9	Clicks the 'VIP Members Club Terms and Conditions' link	User is directed to 'VIP Members Club Terms and Conditions' page
		Header displayed
		Footer displayed

1.10	Returns to the 'New VIP' page	
1.11	Clicks the menu button	
1.12	Clicks the 'Events' button	User is directed to 'Events' page
		Header displayed
		Footer displayed
1.13	Clicks the menu button	
1.14	Clicks the 'Benefits' button	User is directed to 'Benefits' page
		Header displayed
		Footer displayed
1.15	Clicks the menu button	
1.16	Clicks the 'Current giveaways' button	User is directed to 'Current giveaways' page
		Header displayed
		Footer displayed
1.17	Clicks the menu button	
1.18	Clicks the 'Current giveaways' toggle button	Toggle button opens
1.19	Clicks the 'Current giveaways' toggle button	Toggle button closes
1.20	Clicks the 'Current giveaways' toggle button	
1.21	Clicks the first giveaway button	User is directed to the giveaway's page
		Header displayed
		Footer displayed
1.22	Clicks the menu button	
1.23	Clicks the 'Winners' button	User is directed to 'Winners' page
		Header displayed
		Footer displayed
1.24	Clicks the menu button	
1.25	Clicks the 'Shop' button	User is directed to 'Shop' page
		Header displayed

		Footer displayed
1.26	Clicks the menu button	
1.27	Clicks the 'FAQ's' button	User is directed to 'FAQ's' page
		Header displayed
		Footer displayed
1.28	Clicks the menu button	
1.29	Clicks the 'Contacts' button	User is directed to 'Contacts' page
		Header displayed
		Footer displayed
1.30	Clicks the menu button	
1.31	Clicks the 'Contact' toggle button	Toggle button opens
1.32	Clicks the 'Contact' toggle button again to close	Toggle button closes
1.33	Clicks the 'Contact' toggle button again to open	
1.34	Clicks the 'Contact' button	User is directed to 'Contacts' page
1.35	Clicks the menu button	
1.36	Clicks the 'Contact' toggle button	
1.37	Clicks the 'About' button	User is directed to 'About' page
		Header displayed
		Footer displayed
1.38	Clicks the cart button on header	User is directed to 'Cart' page
		Header displayed
		Footer displayed
1.39	Clicks the menu button	
1.40	Clicks the 'My account' button	User is directed to 'My account' page
		Header displayed
		Footer displayed
1.41	Clicks MCA's title on header	
1.42	Clicks the 'Join our partner network' button	User is directed to 'Partners' page
		Header displayed

		Footer displayed
1.43	Clicks the 'Partner Terms and Conditions' link	User is directed to 'Partner Terms and Conditions' page
		Header displayed
		Footer displayed
1.44	Clicks the 'Terms and Conditions' link on footer	User is directed to 'Terms and Conditions' page
		Header displayed
		Footer displayed
1.45	Clicks the 'Privacy Policy' link	User is directed to 'Privacy Policy' page
		Header displayed
		Footer displayed
1.46	Clicks the 'Refund Policy' link	User is directed to 'Refund' page
		Header displayed
		Footer displayed
1.47	Clicks the 'Terms of Service' link	User is directed to 'Terms of Service' page
		Header displayed
		Footer displayed
1.48	Clicks the 'Contact' link	User is directed to 'Contact' link
Home page		
2.1	Clicks the menu button	
2.2	Clicks 'Home' button	
2.3	Clicks the Facebook link	User is directed to MCA's Facebook page
2.4	Clicks the menu button	
2.5	Clicks 'Home' button	
2.6	Clicks the YouTube link	User is directed to MCA's YouTube channel
2.7	Clicks the menu button	
2.8	Clicks 'Home' button	
2.9	Clicks the Instagram link	User is directed to MCA's Instagram page
2.10	Clicks the menu button	

2.11	Clicks 'Home' button	
2.12	Clicks the TikTok link	User is directed to MCA's TikTok channel
'Events' page		
3.1	Clicks the menu button	
3.2	Clicks the 'Events' button	A list of upcoming events displayed
3.3	Clicks the 'Register for events' button	User is directed to MCA's EventBrite page
3.4	Returns to the 'Events' page	
3.5	Clicks the 'Partners' button	User is directed to 'Partners' page
'Benefits' page		
4.1	Clicks the menu button	
4.2	Clicks the 'Benefits' button	
4.3	Clicks the 'Sign up' button	User is directed to 'Current Giveaways' page
4.4	Returns to the 'Benefits' page	
4.5	Clicks the 'VIP sign up' button	User is directed to 'New VIP' page
4.6	Returns to the 'Benefits' page	
4.7	Clicks the 'Partners' button	User is directed to 'Partners' page
'Current giveaways' page		
5.1	Clicks the menu button	
5.2	Clicks the 'Current giveaways' page	
5.3	Clicks the 'VIP sign up' button	User is directed to 'New VIP' page
5.4	Returns to the 'Current giveaways' page	
5.5	Clicks the first giveaway's button	User is directed to the giveaway's page
Giveaway pages (for each giveaway)		
6.1	Clicks the menu button	
6.2	Clicks the 'Current giveaways' toggle button	
6.3	Clicks the first giveaway button	A '1 Entry' button displayed

		A '10 Entries' button displayed
		A '30 Entries' button displayed
		A '100 Entries' button displayed
		A 'Lock in' button displayed
		The 'Lock in' button shows '1 Entry for \$25'
6.4	Clicks the '1 Entry' button	The 'Lock in' button shows '1 Entry for \$25'
6.5	Clicks the '10 Entries' button	The 'Lock in' button shows '10 Entries for \$100'
6.6	Clicks the '30 Entries' button	The 'Lock in' button shows '30 Entries for \$200'
6.7	Clicks the '100 Entries' button	The 'Lock in' button shows '100 Entries for \$400'
6.8	Clicks the 'Lock in' button	User is directed to 'Checkout' page
		'100 entries' is added to the cart
6.9	Returns to the first giveaway page	
6.10	Clicks the '10 Entries' button	
6.11	Clicks the 'Lock in' button	User is directed to 'Checkout' page
		'10 entries' is added to the cart
'Winners' page		
7.1	Clicks the menu button	
7.2	Clicks the 'Winners' button	A playlist of handover video displayed
		A button for each draw livestream displayed
7.3	Clicks a handover video	The handover video plays
7.4	Clicks a draw livestream button	User is directed to MCA's Facebook livestream for the draw
'Shop' page		
8.1	Clicks the menu button	
8.2	Clicks the 'Shop' button	User is directed to 'Shop' page
		A button for each category displayed

8.3	Clicks a category	User is directed to the category's page
		A toggle button to sort the items displayed
		Every item has a name displayed
		Every item has a price displayed
		Every item has a 'Buy now' button displayed
8.4	Clicks the first item's name	User is directed to the item's page
8.5	Returns to the category page	
8.6	Clicks a 'Buy now' button	The cart has the first item
		User is directed to 'Checkout' page
8.7	Returns to the first category page	
8.8	Clicks the second item's 'Buy now' button	The cart has the first and second item
		User is directed to 'Checkout' page
'Contact' page		
9.1	Clicks the menu button	
9.2	Clicks the 'Contact' page button	A Facebook link displayed
		A YouTube link displayed
		An Instagram link displayed
		A contact form displayed
9.3	Clicks the Facebook link	User is directed to MCA's Facebook page
9.4	Returns to the 'Contact' page	
9.5	Clicks the YouTube link	User is directed to MCA's YouTube channel
9.6	Returns to the 'Contact' page	
9.7	Clicks the Instagram link	User is directed to MCA's Instagram page
9.8	Returns to the 'Contact' page	
9.9	Fills the 'Name' field with 'tester'	
9.10	Leaves the 'Email' field empty	
9.11	Fills the 'Message' field 'testing'	
9.12	Clicks the 'Send' button	User is notified the 'Email' field is empty
9.13	Fills the 'Email' field with 'test'	

9.14	Clicks the 'Send' button	User is notified the 'Email' field is filled incorrectly
9.15	Fills the 'Email' field with 'test@gmail.com'	
9.16	Clicks the 'Send' button	User is notified that the email is sent (*)
'Cart' page and 'Checkout' page		
10.1	Clicks the 'Cart' button	User is notified that the cart is empty
		A button to go to 'Shop' page
10.2	Clicks the 'Return to shop' button	User is directed to 'Shop' page
10.3	Clicks the first category button	
10.4	Clicks the first item's 'Buy now' button	
10.5	Clicks the menu button	
10.6	Clicks the 'Shop' button	
10.7	Clicks the first category button	
10.8	Clicks the second item's 'Buy now' button	
10.9	Clicks the 'Cart' button	The cart has the first and second item
		Both items have quantity of 1
		The cart's total amount is sum of the two items' prices
10.10	Clicks the first item's 'Remove' button	
10.11	Clicks 'Update cart' button	The cart has the second item only
		The cart's total amount is the second item's price
10.12	Clicks the 'Undo' button	The cart has the first and second item
		Both items have quantity of 1
		The cart's total amount is sum of the two items' prices
10.13	Change the second item's quantity to 2	
10.14	Change the first item's quantity to 0	
10.15	Clicks 'Update cart' button	The cart has the second item only
		The second item has quantity of 2

		The cart's total amount is two times of the second item's price
10.16	Clicks the 'Proceed to checkout' button	User is directed to 'Checkout' page
		A 'Log in' button displayed
		A 'Coupon or gift card' button displayed
		A 'Your details' form displayed
		A 'Card details' form displayed
		A 'Place order' button displayed
10.17	Clicks the 'Log in' button	User is directed to the 'My account/ Log in' page
10.18	Returns to the 'Checkout' page	
10.19	Clicks the 'Coupon or gift card' button	A field to enter code displayed
10.20	Clicks the 'Apply code' button	User is notified the code field is empty
10.21	Fill the code field with '0000'	
10.22	Clicks the 'Apply code' button	User is notified the code is not invalid (*)
10.23	Fill the code field with '1111'	
10.24	Clicks the 'Apply code' button	User is notified the code is applied (*)
10.25	Leaves the 'Email address' field empty	
10.26	Fills the 'First name' field with 'tester'	
10.27	Fills the 'Last name' field with 'tester'	
10.28	Fills the 'Contact number' field with '0000 000 000'	
10.29	Chooses 'Landline' for phone format field	
10.30	Chooses 'Queensland' for state field	
10.31	Fills the 'Card number' with '0000 0000 0000 0000'	
10.32	Fills the 'Expiry date' field with '12/40'	
10.33	Fills the 'CVC' field' field with '000'	
10.34	Clicks the 'Place order' button	User is notified to fill the 'Email address' field
10.35	Fills the 'Email address' field with 'testing@gmail.com'	

10.36	Leaves the 'First name' field empty	
10.37	Clicks the 'Place order' button	User is notified to fill the 'First name' field
10.38	Fills the 'First name' field with 'Tester'	
10.39	Leaves the 'Last name' field empty	
10.40	Clicks the 'Place order' button	User is notified to fill the 'Last name' field
10.41	Fills the 'Last name' field with 'Tester'	
10.42	Leaves the 'Contact number' field empty	
10.43	Clicks the 'Place order' button	User is notified to fill the 'Contact number' field
'Partners' page		
11.1	Clicks the 'Join our partners network' button	User is directed to the 'Partners' page
		A 'Get in touch' form displayed
		A 'Partners Terms and Conditions' page displayed
11.2	Leaves the 'Your name' field empty	
11.3	Fill the 'Business name' field with 'Test'	
11.4	Fills the 'Email' field with 'testing@gmail.com'	
11.5	Fills the 'Daytime phone number' with '0400 000 000'	
11.6	Fills the 'Message' field with 'testing'	
11.7	Clicks the 'Send' button	User is notified to fill the 'Your name' field
11.8	Fills the 'Your name' field with 'Tester'	
11.9	Leaves the 'Business name' field empty	
11.10	Clicks the 'Send' button	User is notified to fill the 'Business name' field
11.11	Fill the 'Business name' field with 'Test'	
11.12	Leaves the 'Email' field empty	
11.13	Clicks the 'Send' button	User is notified to fill the 'Email' field
11.14	Fill the 'Email' name with 'testing@gmail.com'	

11.15	Leaves the 'Daytime phone number' field empty	
11.16	Clicks the 'Send' button	User is notified to fill the 'Daytime phone number' field
11.17	Fill the 'Daytime phone number' field with '0000 000 000'	
11.18	Leaves the 'Message' field empty	
11.19	Clicks the 'Send' button	User is notified to fill the 'Message' field
11.20	Fills the 'Message' field with 'testing	
11.21	Clicks the 'Send' button	User is notified that the email is sent (*)
'New VIP' page		
12.1	Clicks the 'Become a VIP member' button	
12.2	Clicks the 'Mini VIP' button	User is directed to the 'Checkout' page
		'Mini VIP' is added to the cart
12.3	Returns to the 'New VIP' page	
12.4	Clicks the 'Standard VIP' button	User is directed to the 'Checkout' page
		'Standard VIP' is added to the cart
12.5	Returns to the 'New VIP' page	
12.6	Clicks the 'Premium VIP' button	User is directed to the 'Checkout' page
		'Premium VIP' is added to the cart
'My account' menu		
13.1	Clicks the menu button	
13.2	Clicks the 'My account' button	
13.3	Clicks the 'My dashboard' button	User is directed to 'My account/ Dashboard' page
		My account menu displayed
13.4	Clicks the 'Member offers' button	User is directed to 'My account/ Member offers' page
		My account menu displayed
13.5	Clicks the 'Order history' button	User is directed to 'My account/ Order history' page

		My account menu displayed
13.6	Clicks the 'Account details' button	User is directed to 'My account/ Account details' page
		My account menu displayed
13.7	Clicks the 'Address book' button	User is directed to 'My account/ Address book' page
		My account menu displayed
13.8	Clicks the 'Subscriptions' button	User is directed to 'My account/ Subscriptions' page
		My account menu displayed
13.9	Clicks the 'Membership history' button	User is directed to 'My account/ Membership history' page
		My account menu displayed
13.10	Clicks the 'Verify entry numbers' button	User is directed to 'Verify entry numbers' page
'My account/ Dashboard' pages		
14.1	Clicks the menu button	
14.2	Clicks the 'My account' button	
14.3	Leaves the 'Username' field empty	
14.4	Fills the 'Password' field with 'testingFalse'	
14.5	Clicks the 'Log in' button	User is notified to fill the 'Username' field
14.6	Fills the 'Username' field with 'tester'	
14.7	Leaves the 'Password' field empty	
14.8	Clicks the 'Log in' button	User is notified to fill the 'Password' field
14.9	Fills the 'Username' field with 'who'	
14.10	Fills the 'Password' field with 'testingFalse'	
14.11	Clicks the 'Log in' button	User is notified the username is not registered
14.12	Fills the 'Username' field with 'ronald.hoang.2000@gmail.com'	

14.13	Fills the 'Password' field with 'testingFalse'	
14.14	Clicks the 'Log in' button	User is notified the password is incorrect
14.15	Fills the 'Username' field with 'tester'	
14.16	Fills the 'Password' field with '1testingTrue!'	
14.17	Clicks the 'Log in' button	User is logged in
		A 'Become a VIP now' button displayed
		A list of current draws of the user displayed
14.18	Clicks the 'Become a VIP now' button	User is directed to the 'New VIP' page
14.19	Go back to 'Dashboard' page	
14.20	Clicks 'Log out' button	User is logged out
14.21	Clicks the 'Register' button	User is notified to fill the 'Email address' field
14.22	Fills the 'Email address' field with 'tester'	
14.23	Clicks the 'Register' button	User is notified to fill the 'Email address' field with correct email address structure
14.24	Fills the 'Email address' field with 'testing@gmail.com'	
14.25	Clicks the 'Register' form	User is directed to 'My Account/Dashboard' page with default information (*)
'My account/ Member offers, Order history, Membership history, Subscription' pages		
15.1	Clicks the menu button	
15.2	Clicks 'My account' button	
15.3	Clicks 'Membership history' button	User is required to log in
15.4	Fills the 'Username' field with 'tester'	
15.5	Fills the 'Password' field with '1testingTrue!'	
15.6	Clicks 'Log in' button	User is logged in
		Past memberships displayed

15.7	Clicks the 'Member offers' button	User is directed to 'My account/Member offers' page
15.8	Clicks the 'Cancel subscription' button	User is directed to 'My account/Subscriptions' page
		User is notified that there is no subscription
15.9	Clicks the 'My account/ Order history' button	A list of orders displayed
15.10	Clicks 'View' button on the first order	User is directed to the order's detailed view
'My account/ Account details' page		
16.1	Clicks the menu button	
16.2	Clicks 'My account' butto	
16.3	Clicks 'Account details' button	
16.4	Fills the 'Username' field with 'tester'	
16.5	Fills the 'Password' field with '1testingTrue!'	
16.6	Clicks 'Log in' button	User is logged in
16.7	Leaves 'First name' field empty	
16.8	Fills 'Last name' field with 'Tester'	
16.9	Fills 'Display name' field with 'Tester'	
16.10	Fills 'Email address' field with 'testing@gmail.com'	
16.11	Fills 'Phone number' field with '0000 000 000'	
16.12	Clicks 'Save changes' button	User is notified to fill the 'First name' field
16.13	Fills 'First name' field with 'Tester'	
16.14	Leaves 'Last name' field empty	
16.15	Fills the 'Email address' field with 'testing@gmal.com'	
16.16	Fills the 'Phone number field with '0000 000 000'	
16.17	Clicks the 'Save changes' button	User is notified to fill the 'Last name' field empty

16.18	Fills 'First name' field with 'Tester'	
16.19	Fills 'Last name' field with 'Tester'	
16.20	Leaves the 'Display name' empty	
16.21	Fills the 'Phone number' field with '0000 000 000'	
16.22	Clicks the 'Save changes' button	User is notified to fill the 'Display name' field empty
16.23	Fills the 'Display name' field with 'Tester'	
16.24	Leaves the 'Email address' field empty	
16.25	Clicks the 'Save changes' button	User is notified to fill the 'Email address' field empty
16.26	Fills 'First name' field with 'Tester'	
16.27	Fills 'Last name' field with 'Tester'	
16.28	Fills 'Email address' field with 'testing@gmail.com'	
16.29	Leaves 'Phone number' field empty	
16.30	Clicks the 'Save changes' button	User is notified to fill the 'Phone number' field empty
16.31	Fills 'First name' field with 'Tester'	
16.32	Fills 'Last name' field with 'Tester'	
16.33	Fills 'Email address' field with 'testing@gmail.com'	
16.34	Fills 'Phone number' field with '0000 000 000'	
16.35	Clicks the 'Save changes' button	User is notified the changes are saved (*)
16.36	Fills 'First name' field with 'Tester'	
16.37	Fills 'Last name' field with 'Tester'	
16.38	Fills 'Email address' field with 'testing@gmail.com'	
16.39	Fills 'Phone number' field with '0000 000 000'	
16.40	Fills 'Current password' with '1testingTrue!'	

16.41	Clicks the 'Save changes' button	User is notified to fill the 'New password' field
16.42	Fills 'First name' field with 'Tester'	
16.43	Fills 'Last name' field with 'Tester'	
16.44	Fills 'Email address' field with 'testing@gmail.com'	
16.45	Fills 'Phone number field with '0000 000 000'	
16.46	Fills 'Current password' field with '1testingTrue!'	
16.47	Fills 'New password' field with '1testingNew!'	
16.48	Clicks the 'Save changes' button	User is notified to fill the 'Confirm new password' field
16.49	Fills 'First name' field with 'Tester'	
16.50	Fills 'Last name' field with 'Tester'	
16.51	Fills 'Email address' field with 'testing@gmail.com'	
16.52	Fills 'Phone number field with '0000 000 000'	
16.53	Fills 'Current password' field with '1testingTrue!'	
16.54	Fills 'New password' field with '1testingNew!'	
16.55	Fills 'Confirm new password' field with 'testingFalse'	
16.56	Clicks the 'Save changes' button	User is notified to fill the 'New password' field and the 'Confirm new password' field consistently
16.57	Fills 'First name' field with 'Tester'	
16.58	Fills 'Last name' field with 'Tester'	
16.59	Fills 'Email address' field with 'testing@gmail.com'	
16.60	Fills 'Phone number field with '0000 000 000'	

16.61	Fills 'Current password' field with '1testingTrue!'	
16.62	Fills 'New password' field with '1testingNew!'	
16.63	Fills 'Confirm new password' field with '1testingNew!'	
16.64	Clicks the 'Save changes' button	User is notified the changes are saved (*)
'My account/ Edit billing address' pages		
17.1	Clicks the menu button	
17.2	Clicks 'My account' button	
17.3	Clicks 'Address book' button	
17.4	Fills the 'Username' field with 'tester'	
17.5	Fills the 'Password' field with '1testingTrue!'	
17.6	Clicks 'Log in' button	User is logged in
		An 'Add billing address' link displayed
		An 'Add shipping address' link displayed
17.7	Clicks 'Add billing address' link	User is directed to 'Edit billing address' page
17.8	Leaves 'First name' field empty	
17.9	Fills 'Last name' field with 'Tester'	
17.10	Fills 'Street address' field with '0 Test'	
17.11	Fills 'Suburb' field with 'Test'	
17.12	Fills 'Postcode' field with '0000'	
17.13	Fills 'Phone' field with '0000 000 000'	
17.14	Fills 'Email address' field with 'test@gmail.com'	
17.15	Clicks 'Save address' button	User is notified to fill 'First name' field
17.16	Fills 'First name' field with 'Tester'	
17.17	Leaves 'Last name' field empty	
17.18	Fills 'Street address' field with '0 Test'	

17.19	Fills 'Suburb' field with 'Test'	
17.20	Fills 'Postcode' field with '0000'	
17.21	Fills 'Phone' field with '0000 000 000'	
17.22	Fills 'Email address' field with 'test@gmail.com'	
17.23	Clicks 'Save address' button	User is notified to fill 'Last name' field
17.24	Fills 'First name' field with 'Tester'	
17.25	Fills 'Last name' field with 'Tester'	
17.26	Leaves 'Street address' field empty	
17.27	Fills 'Suburb' field with 'Test'	
17.28	Fills 'Postcode' field with '0000'	
17.29	Fills 'Phone' field with '0000 000 000'	
17.30	Fills 'Email address' field with 'test@gmail.com'	
17.31	Clicks 'Save address' button	User is notified to fill 'Street address' field
17.32	Fills 'First name' field with 'Tester'	
17.33	Fills 'Last name' field with 'Tester'	
17.34	Fills 'Street address' field with '0 Test'	
17.35	Leaves 'Suburb' field empty	
17.36	Fills 'Postcode' field with '0000'	
17.37	Fills 'Phone' field with '0000 000 000'	
17.38	Fills 'Email address' field with 'test@gmail.com'	
17.39	Clicks 'Save address' button	User is notified to fill 'Suburb' field
17.40	Fills 'First name' field with 'Tester'	
17.41	Fills 'Last name' field with 'Tester'	
17.42	Fills 'Street address' field with '0 Test'	
17.43	Fills 'Suburb' field with 'Test'	
17.44	Leaves 'Postcode' field empty	
17.45	Fills 'Phone' field with '0000 000 000'	
17.46	Fills 'Email address' field with	

	'test@gmail.com'	
17.47	Clicks 'Save address' button	User is notified to fill 'Postcode' field
17.48	Fills 'First name' field with 'Tester'	
17.49	Fills 'Last name' field with 'Tester'	
17.50	Fills 'Street address' field with '0 Test'	
17.51	Fills 'Suburb' field with 'Test'	
17.52	Fills 'Postcode' field with '0000'	
17.53	Leaves 'Phone' field empty	
17.54	Fills 'Email address' field with 'test@gmail.com'	
17.55	Clicks 'Save address' button	User is notified to fill 'Phone' field
17.56	Fills 'First name' field with 'Tester'	
17.57	Fills 'Last name' field with 'Tester'	
17.58	Fills 'Street address' field with '0 Test'	
17.59	Fills 'Suburb' field with 'Test'	
17.60	Fills 'Postcode' field with '0000'	
17.61	Fills 'Phone' field with '0000 000 000'	
17.62	Leaves 'Email address' field empty	
17.63	Clicks 'Save address' button	User is notified to fill 'Email address' field
17.64	Fills 'First name' field with 'Tester'	
17.65	Fills 'Last name' field with 'Tester'	
17.66	Fills 'Street address' field with '0 Test'	
17.67	Fills 'Suburb' field with 'Test'	
17.68	Fills 'Postcode' field with '0000'	
17.69	Fills 'Phone' field with '0000 000 000'	
17.70	Fills 'Email address' field with 'test@gmail.com'	
17.71	Clicks 'Save address' button	User is directed to 'My account/ Address book' page
		User is notified the changes are saved (*)
17.72	Clicks 'Edit billing address' button	Fields are filled with new billing address

'My account/ Edit shipping address' pages		
18.1	Clicks the menu button	
18.2	Clicks 'My account' button	
18.3	Clicks 'Address book' button	
18.4	Fills the 'Username' field with 'tester'	
18.5	Fills the 'Password' field with '1testingTrue!'	
18.6	Clicks 'Log in' button	User is logged in
18.7	Clicks 'Add shipping address' link	User is directed to 'Edit shipping address' page
18.8	Leaves 'First name' field empty	
18.9	Fills 'Last name' field with 'Tester'	
18.10	Fills 'Street address' field with '0 Test'	
18.11	Fills 'Suburb' field with 'Test'	
18.12	Fills 'Postcode' field with '0000'	
18.13	Clicks 'Save address' button	User is notified to fill 'First name' field
18.14	Fills 'First name' field with 'Tester'	
18.15	Leaves 'Last name' field empty	
18.16	Fills 'Street address' field with '0 Test'	
18.17	Fills 'Suburb' field with 'Test'	
18.18	Fills 'Postcode' field with '0000'	
18.19	Clicks 'Save address' button	User is notified to fill 'Last name' field
18.20	Fills 'First name' field with 'Tester'	
18.21	Fills 'Last name' field with 'Tester'	
18.22	Leaves 'Street address' field empty	
18.23	Fills 'Suburb' field with 'Test'	
18.24	Fills 'Postcode' field with '0000'	
18.25	Clicks 'Save address' button	User is notified to fill 'Street address' field
18.26	Fills 'First name' field with 'Tester'	
18.27	Fills 'Last name' field with 'Tester'	

18.28	Fills 'Street address' field with '0 Test'	
18.29	Leaves 'Suburb' field empty	
18.30	Fills 'Postcode' field with '0000'	
18.31	Clicks 'Save address' button	User is notified to fill 'Suburb' field
18.32	Fills 'First name' field with 'Tester'	
18.33	Fills 'Last name' field with 'Tester'	
18.34	Fills 'Street address' field with '0 Test'	
18.35	Fills 'Suburb' field with 'Test'	
18.36	Leaves 'Postcode' field empty	
18.37	Clicks 'Save address' button	User is notified to fill 'Postcode' field
18.38	Fills 'First name' field with 'Tester'	
18.39	Fills 'Last name' field with 'Tester'	
18.40	Fills 'Street address' field with '0 Test'	
18.41	Fills 'Suburb' field with 'Test'	
18.42	Fills 'Postcode' field with '0000'	
18.43	Clicks 'Save address' button	User is directed to 'My account/ Address book' page
		User is notified the changes are saved
18.44	Clicks 'Edit shipping address' button	Fields are filled with new shipping address
'My account/ Verify entry numbers' page		
19.1	Clicks the menu button	
19.2	Clicks 'My account' button	
19.3	Clicks 'Verify entry number' button	'Choose your draw' selection box displayed
		'Enter your entry numbers' field displayed
		'Search' button displayed
19.4	Chooses the first draw for 'Choose your draw' selection box	
19.5	Fills 'Enter your entry numbers' field with '000000'	
19.6	Clicks 'Search' button	User is notified the number is not found (*)

19.7	Fills 'Enter your entry numbers' field with '111111'	
19.8	Clicks 'Search' button	Information of the entry displayed (*)
'My account/ Lost password' page		
20.1	Clicks the menu button	
20.2	Clicks 'My account' button	
20.3	Clicks 'Lost password' button	User is directed to 'Lost password' page
20.4	Leaves 'Username or email' field empty	
20.5	Clicks 'Reset password' button	User is notified to fill 'Username or email' field
20.6	Fills 'Username or email' field with 'test'	
20.7	Clicks 'Reset password' button	User is notified to fill 'Username or email' field with correct email structure
20.8	Fills 'Username or email' field with 'testFalse@gmail.com'	
20.9	Clicks 'Reset password' button	User is notified the username or email is not found
20.10	Fills 'Username or email' field with 'test@gmail.com'	
20.11	Clicks 'Reset password' button	User is notified the reset password email is sent (*)

Test cases

In basic terms, front-end test scripts are computer automated process flows. They are written in language JavaScript, using the testing framework Playwright.

Tests are logically separated into two groups:

- Basic: executable on MCA's production AND boiling-plate web applications,
- Advance: only executable on MCA's production web application

They are named in accordance to the afore-mentioned process flows. Flows 1-10 are basic, while flows 11-20 are advanced. For example:

- Process flow 1: basic1.spec.js
- Process flow 11: advance11.spec.js

The tests are accessible from: https://github.com/ronaldhoangA4/MCA_Frontend_Testing.git

Instructions to execute the tests and a copy of this report can be found within the test repository. The repository is private, if permission is denied, please contact the author for access permission.

Requirement acceptance

Requirement ID	Tested by		Result	Note
	Process flow ID	Test file:line		
Header				
1.1	1.1	Basic1: 6	Pass	
1.1.1	1.1	Basic1: 7	Pass	
1.2	1.38	Basic1: 109	Pass	
1.2.1	1.38	Basic1: 110	Pass	
1.3	1.2	Basic1: 15	Pass	
1.3.1	1.3	Basic1: 15	Pass	
1.3.2	1.5	Basic1: 26	Pass	
1.3.2.1	1.5	Basic1: 27	Pass	
1.3.3	1.12	Baisc1: 44	Pass	
1.3.3.1	1.12	Basic1: 45	Pass	
1.3.4	1.14	Basic1: 51	Pass	
1.3.4.1	1.14	Basic1: 52	Pass	
1.3.5	1.16	Basic1: 58	Pass	
1.3.5.1	1.16	Basic1: 59	Pass	
1.3.6	1.18	Basic1: 66	Pass	
1.3.6.1	1.18	Basic1: 66	Pass	
1.3.6.2	1.21	Basic1: 70	Pass	
1.3.6.3	1.19	Basic1: 68	Pass	
1.3.7	1.23	Basic1: 78	Pass	
1.3.7.1	1.23	Basic1: 79	Pass	
1.3.8	1.25	Basic1: 85	Pass	
1.3.8.1	1.25	Basic1: 86	Pass	
1.3.9	1.27	Basic1: 92	Pass	
1.3.9.1	1.27	Basic1: 93	Pass	

1.3.10	1.29	Basic1: 99	Pass	
1.3.10.1	1.29	Basic1: 100	Pass	
1.3.11	1.31	Basic1: 106	Pass	
1.3.11.1	1.31	Basic1: 107	Pass	
1.3.11.2	1.37	Basic1: 112	Pass	
1.3.11.3	1.37	Basic1: 113	Pass	
1.3.11.4	1.32	Basic1: 109	Pass	
1.3.12	1.40	Basic1: 124	Pass	
1.3.12.1	1.40	Basic1: 125	Pass	
1.3.13	1.3	Basic1: 17	Pass	
1.4.1	1.1	Basic1: 28	Pass	
1.4.2	1.12	Basic1: 46	Pass	
1.4.3	1.14	Basic1: 54	Pass	
1.4.4	1.16	Basic1: 61	Pass	
1.4.5	1.21	Basic1: 73	Pass	
1.4.6	1.23	Basic1: 80	Pass	
1.4.7	1.25	Basic1: 87	Pass	
1.4.8	1.27	Basic1: 94	Pass	
1.4.9	1.29	Basic1: 101	Pass	
1.4.10	1.37	Basic1: 114	Pass	
1.4.11	1.38	Basic1: 119	Pass	
1.4.12	1.40	Basic1: 126	Pass	
1.4.13	1.44	Basic1: 143	Pass	
1.4.14	1.45	Basic1: 148	Pass	
1.4.15	1.46	Basic1: 153	Pass	
1.4.16	1.47	Basic1: 158	Pass	
1.4.17	1.42	Basic1: 133	Pass	
1.4.18	1.43	Basic1: 138	Pass	
1.4.19	1.6	Basic1: 33	Pass	
1.4.20	1.9	Basic1: 39	Fail	Target was a PDF file, not a web

				page
Footer				
2.1	1.44	Basic1: 141	Pass	
2.1.1	1.44	Basic1: 142	Pass	
2.2	1.45	Basic1: 146	Pass	
2.2.1	1.45	Basic1: 147	Pass	
2.3	1.46	Basic1: 151	Pass	
2.3.1	1.46	Basic1: 152	Pass	
2.4	1.47	Basic1: 156	Pass	
2.4.1	1.47	Basic1: 157	Pass	
2.5	1.48	Basic1: 161	Pass	
2.5.1	1.48	Basic1: 162	Pass	
2.6.1	1.1	Basic1: 29	Pass	
2.6.2	1.12	Basic1: 47	Pass	
2.6.3	1.14	Basic1: 55	Pass	
2.6.4	1.16	Basic1: 62	Pass	
2.6.5	1.21	Basic1: 74	Pass	
2.6.6	1.23	Basic1: 81	Pass	
2.6.7	1.25	Basic1: 88	Pass	
2.6.8	1.27	Basic1: 95	Pass	
2.6.9	1.29	Basic1: 102	Pass	
2.6.10	1.37	Basic1: 115	Pass	
2.6.11	1.38	Basic1: 120	Pass	
2.6.12	1.40	Basic1: 127	Pass	
2.6.13	1.44	Basic1: 144	Pass	
2.6.14	1.45	Basic1: 149	Pass	
2.6.15	1.46	Basic1: 154	Pass	
2.6.16	1.47	Basic1: 159	Pass	
2.6.17	1.42	Basic1: 134	Pass	

2.6.18	1.43	Basic1: 139	Pass	
2.6.19	1.6	Basic1: 34	Pass	
2.6.20	1.9	Basic1: 40	Fail	Target was a PDF file, not a web page
Home page				
3.1	1.42	Basic1: 131	Pass	
3.1.1	1.42	Basic1: 132	Pass	
3.2	1.6	Basic1: 31	Pass	
3.2.1	1.6	Basic1: 32	Partial pass	Navigation is completed, but 'New-VIP' page has a generic title
3.3	2.3	Basic2: 9	Pass	
3.3.1	2.3	Basic2: 11	Pass	
3.4	2.6	Basic2: 16	Pass	
3.4.1	2.6	Basic2: 18	Pass	
3.5	2.9	Basic2: 23	Pass	
3.5.1	2.9	Basic2: 25	Pass	
3.6	2.12	Basic2: 30	Pass	
3.6.1	2.12	Basic2: 32	Pass	
'Events' page				
4.1	3.3	Basic3: 13	Pass	
4.1.1	3.3	Basic3: 14	Pass	
4.2	3.5	Basic3: 18	Pass	
4.2.1	3.5	Basic3: 19	Pass	
4.3	3.2	Basic3: 10	Pass	
'Benefits' page				
5.1	4.5	Basic4: 11	Pass	
5.1.1	4.5	Basic4: 12	Pass	
5.2	4.3	Basic4: 16	Pass	
5.2.1	4.3	Basic4: 17	Pass	

5.3	4.7	Basic4: 21	Pass	
5.3.1	4.7	Basic4: 22	Pass	
'Current Giveaways' page				
6.1	5.3	Basic5: 11	Pass	
6.1.1	5.3	Basic5: 12	Pass	
6.2	5.5	Basic5: 16	Pass	
6.2.1	5.5	Basic5: 17	Pass	
Giveaway pages (for each giveaway)				
7.1	6.3	Basic6: 14	Pass	
7.2	6.3	Basic6: 17	Pass	
7.3	6.3	Basic6: 20	Pass	
7.4	6.3	Basic6: 23	Pass	
7.5	6.3	Basic6: 26	Pass	
7.5.1	6.3	Basic6: 12	Pass	
7.5.2	6.4	Basic6: 16	Pass	
7.5.3	6.5	Basic6: 19	Pass	
7.5.4	6.6	Basic6: 22	Pass	
7.5.5	6.7	Basic6: 25	Pass	
7.5.6	6.11	Basic6: 33	Pass	
7.5.7	6	Basic6: 42	Pass	
'Winners' page				
8.1	7.2	Basic7: 11	Pass	
8.1.1	7.3	Basic7: 12	Pass	
8.2	7.4	Basic7: 15	Pass	
8.2.1	7.4	Basic7: 16	Pass	
'Shop' page				
9.1	8.2	Basic8: 11	Pass	

9.1.1	8.3	Basic8: 11	Pass	
9.2.1	8.4	Basic8: 17	Pass	
9.2.1	8.4	Basic8: 17	Pass	
9.3	8.6	Basic8: 14	Pass	
9.3.1	8.8	Basic8: 24	Pass	
9.3.2	8.8	Basic8: 18	Pass	
'Contact' page				
10.1	9.2	Basic9: 21	Pass	
10.1.1	9.3	Basic9: 23	Pass	
10.2	9.2	Basic9: 28	Pass	
10.2.1	9.4	Basic9: 30	Pass	
10.3	9.2	Basic9: 35	Pass	
10.3.1	9.5	Basic9: 37	Pass	
10.4	9.2	Basic9: 21	Pass	
10.4.1	9.9	Basic9: 41	Pass	
10.4.2	9.13	Basic9: 46	Pass	
10.4.3	9.11	Basic9: 42	Pass	
10.4.4	9.12	Basic9: 43	Pass	
10.4.4.1	9.12	Basic9: 44	Pass	
10.4.4.2	9.14	Basic9: 48	Pass	
10.4.4.3	9.16	Basic9: 52	Pass	
'Cart' page				
11.1	10.9	Advance10: 35	Pass	
11.1.1	10.10	Advance10: 45	Pass	
11.1.1.1	10.10	Advance10: 48	Pass	
11.1.1.2	10.10	Advance10: 51	Pass	
11.1.1.3	10.12	Advance10: 51	Pass	
11.1.1.4	10.12	Advance10: 53	Pass	
11.1.2	10.13	Advance10: 60	Pass	

11.1.2.1	10.14	Advance10: 61	Pass	
11.1.2.2	10.15	Advance10: 63	Pass	
11.2	10.16	Advance10: 69	Pass	
11.2.1	10.16	Advance10: 70	Pass	
11.3	10.1	Advance10: 23	Pass	
11.4	10.2	Advance10: 24	Pass	
11.4.1	10.2	Advance10: 24	Pass	
11.5	10.15	Advance10: 66	Pass	
'Checkout' page				
12.1	10.17	Advance10: 71	Pass	
12.1.1	10.17	Advance10: 77	Pass	
12.2	10.19	Advance10: 72	Pass	
12.2.1	10.19	Advance10: 82	Pass	
12.2.2	10.19	Advacne10: 82	Pass	
12.2.3	10.20	Advance10: 83	Pass	
12.2.3.1	10.20	Advance10: 84	Pass	
12.2.3.2	10.22	Advance10: 91	Pass	
12.2.3.3	10.24	Advance10: 98	Pass	
12.3	10.19	Advance10: 73	Pass	
12.3.1	10.25	Advance10: 119	Pass	
12.3.2	10.26	Advance10: 101	Pass	
12.3.3	10.27	Advance10: 102	Pass	
12.3.4	10.28	Advance10: 103	Pass	
12.3.5	10.29	Advance10: 103	Pass	
12.3.5.1	10.29	Advance10: 103	Pass	
12.3.5.2	10.29	Advance10: 103	Pass	
12.3.5.3	10.29	Advance10: 103	Pass	
12.3.6	10.30	Advance10: 106	Pass	
12.3.6.1	10.30	Advance10: 107	Pass	

12.3.6.2	10.30	Advance10: 108	Pass	
12.3.6.3	10.30	Advance10: 109	Pass	
12.3.6.4	10.30	Advance10: 110	Pass	
12.3.6.5	10.30	Advance10: 111	Pass	
12.3.6.6	10.30	Advance10: 112	Pass	
12.3.6.7	10.30	Advance10: 113	Pass	
12.3.6.8	10.30	Advance10: 114	Pass	
12.4	10.31	Advance10: 117	Pass	
12.4.1	10.31	Advance10: 119	Pass	
12.4.2	10.32	Advance10: 121	Pass	
12.4.3	10.32	Advance10: 123	Pass	
12.5	10.34	Advance10: 125	Pass	
12.6	10.34	Advance10: 126	Pass	
12.6.1	10.34	Advance10: 128	Pass	
12.6.2	10.37	Advance10: 136	Pass	
12.6.3	10.40	Advance10: 144	Pass	
12.6.4	10.43	Advance10: 152	Pass	
'Partners' page				
13.1	11.2	Advance11: 20	Pass	
13.1.1	11.8	Advance11: 27	Pass	
13.1.2	11.3	Advance11: 20	Pass	
13.1.3	11.4	Advance11: 21	Pass	
13.1.4	11.5	Advance11: 22	Pass	
13.1.5	11.6	Advance11: 23	Pass	
13.1.6	11.7	Advance11: 24	Pass	
13.1.6.1	11.7	Advance11: 25	Pass	
13.1.6.2	11.10	Advance11: 30	Pass	
13.1.6.3	11.13	Advance11: 35	Pass	
13.1.6.4	11.16	Advance11: 40	Pass	

13.1.6.5	11.19	Advance11: 45	Pass	
13.1.6.6	11.21	Advance11: 49	Pass	
13.2	1.43	Basic1: 136	Pass	
13.2.1	1.43	Basci1: 137	Pass	
'New VIP' page				
14.1	12.2	Advance12: 10	Pass	
14.1.1	12.2	Advance12: 12	Pass	
14.1.2	12.2	Advance12: 12	Pass	
14.1.3	12.2	Advance12: 11	Pass	
14.2	12.4	Advance12: 15	Pass	
14.2.1	12.4	Advance12: 17	Pass	
14.2.2	12.4	Advance12: 18	Pass	
14.2.3	12.4	Advance12: 16	Pass	
14.3	12.6	Advance12: 21	Pass	
14.3.1	12.6	Advance12: 23	Pass	
14.3.2	12.6	Advance12: 24	Pass	
14.3.3	12.6	Advance12: 22	Pass	
14.4	1.9	Basic1: 37	Pass	
14.4.1	1.9	Basic1: 38	Partial pass	Navigation was completed, but target was a PDF file, not a web page.
'My account' menu				
15.1	13.3	Advance13: 12	Pass	
15.1.1	13.3	Advance13: 13	Pass	
15.2	13.4	Advance13: 14	Pass	
15.2.1	13.4	Advance13: 15	Pass	
15.3	13.5	Advance13: 17	Pass	
15.3.1	13.5	Advance13: 18	Pass	
15.4	13.6	Advance13: 20	Pass	

15.4.1	13.6	Advance13: 21	Pass	
15.5	13.7	Advance13: 23	Pass	
15.5.1	13.7	Advance13: 24	Pass	
15.6	13.8	Advance13: 26	Pass	
15.6.1	13.8	Advance13: 27	Pass	
15.7	13.9	Advance13: 29	Pass	
15.7.1	13.9	Advance13: 30	Pass	
15.8	13.10	Advance13: 32	Pass	
15.8.1	13.10	Advance13: 33	Pass	
15.9	14.20	Advance14: 2608	Pass	
15.9.1	14.20	Advance14: 2608	Pass	
15.10.1	13.3	Advance13: 10	Pass	
15.10.2	13.4	Advance13: 16	Pass	
15.10.3	13.5	Advance13: 19	Pass	
15.10.4	13.6	Advance13: 22	Pass	
15.10.5	13.7	Advance13: 25	Pass	
15.10.6	17.6	Advance17: 14	Pass	
15.10.7	18.6	Advance18: 14	Pass	
15.10.8	13.10	Advance13: 28	Pass	
15.10.9	13.11	Advance13: 31	Pass	
'My account/ Dashboard' page				
16.1	14.3	Advance14: 2573	Pass	
16.1.1	14.3	Advance14: 2573	Pass	
16.1.2	14.4	Advance14: 2574	Pass	
16.1.3	14.5	Advance14: 2575	Pass	
16.1.3.1	14.5	Advance14: 2577	Pass	
16.1.3.2	14.8	Advance14: 2583	Pass	
16.1.3.3	14.11	Advance14: 2589	Pass	
16.1.3.4	14.17	Advance14: 2601	Pass	

16.1.4	20.3	Advance20: 26	Pass	
16.1.4.1	20.3	Advance20: 27	Pass	
16.2	14.21	Advance14: 2611	Pass	
16.2.1	14.22	Advance14: 2615	Pass	
16.2.2	14.21	Advance14: 2611	Pass	
16.2.3	14.21	Advance14: 2611	Pass	
16.2.4	14.23	Advance14: 2618	Pass	
16.2.5	14.25	Advance14: 2624	Pass	
16.3	14.18	Advance14: 2604	Pass	
16.3.1	14.18	Advance14: 2605	Pass	
'My account/ Member offers' page				
17.1	13.3	Advance13: 13	Pass	
17.2	15.8	Advance15: 21	Pass	
17.2.1	15.8	Advance15: 22	Pass	
'My account/ Order history' page				
18.1	13.5	Advance13: 17	Pass	
18.2	15.9	Advance15: 27	Pass	
18.3	15.9	Advacen15: 27	Pass	
18.4	15.10	Advance15: 29	Pass	
18.4.1	15.10	Advance15: 30	Pass	
'My account/ Account details' page				
19.1	13.6	Advance13: 20	Pass	
19.2	16.7	Advance16: 1051	Pass	
19.2.1	16.7	Advance16: 1051	Pass	
19.2.2	16.8	Advance16: 1056	Pass	
19.2.3	16.9	Advance16: 1061	Pass	
19.2.4	16.10	Advance16: 1066	Pass	
19.2.5	16.11	Advance16: 1071	Pass	

19.3	16.40	Advance16: 1075	Pass	
19.3.1	16.40	Advance16: 1075	Pass	
19.3.2	16.47	Advance16: 1080	Pass	
19.3.3	16.63	Advance16: 1086	Pass	
19.4	16.12	Advance16: 1052	Pass	
19.4.1	16.12	Advance16: 1053	Pass	
19.4.2	16.17	Advance16: 1058	Pass	
19.4.3	16.22	Advance16: 1063	Pass	
19.4.4	16.25	Advance16: 1068	Pass	
19.4.5	16.41	Advance16: 1077	Pass	
19.4.6	16.48	Advance16: 1082	Pass	
19.4.7	16.56	Advance16: 1089	Pass	
19.4.8	16.64	Advance16: 1095		
'My account/ Address book' page				
20.1	13.7	Advance13: 24	Pass	
20.2	17.6	Advance17: 18	Pass	
20.3	17.7	Advance17: 23	Pass	
20.3.1	17.7	Advance17: 23	Pass	
20.4	17.7	Advance17: 23	Pass	
20.4.1	17.7	Advance17: 23	Pass	
20.5	17.6	Advance17: 21	Pass	
20.6	18.7	Advance18: 16	Pass	
20.6.1	18.7	Advance18: 16	Pass	
20.7	18.7	Advance18: 16	Pass	
20.7.1	18.7	Advance18: 16	Pass	
'My account/ Edit billing address' page				
21.1	17.7	Advance17: 23	Pass	
21.1.1	17.8	Advance17: 25	Pass	
21.1.2	17.9	Advance17: 27	Pass	

21.1.3	17.7	Advance17: 23	Pass	
21.1.4	17.10	Advance17: 28	Pass	
21.1.5	17.11	Advance17: 29	Pass	
21.1.6	17.12	Advance17: 35	Pass	
21.1.6.1	17.12	Advance17: 36	Pass	
21.1.6.2	17.12	Advance17: 37	Pass	
21.1.6.3	17.12	Advance17: 38	Pass	
21.1.6.4	17.12	Advance17: 39	Pass	
21.1.6.5	17.12	Advance17: 40	Pass	
21.1.6.6	17.12	Advance17: 41	Pass	
21.1.6.7	17.12	Advance17: 42	Pass	
21.1.6.8	17.12	Advance17: 43	Pass	
21.1.7	17.12	Advance17: 30	Pass	
21.1.8	17.13	Advance17: 31	Pass	
21.1.9	17.14	Advance17: 32	Pass	
21.1.10	17.7	Advance17: 23	Pass	
21.2	17.15	Advance17: 46	Pass	
21.2.1	17.15	Advance17: 47	Pass	
21.2.2	17.23	Advance17: 54	Pass	
21.2.3	17.31	Advance17: 61	Pass	
21.2.4	17.39	Advance17: 68	Pass	
21.2.5	17.47	Advance17: 75	Pass	
21.2.6	17.55	Advance17: 82	Pass	
21.2.7	17.63	Advance17: 89	Pass	
21.2.8	17.71	Advance17: 95	Pass	
21.2.9	17.71	Advance17: 96	Pass	
'My account/ Edit shipping address' page				
22.1	18.7	Advance18: 16	Pass	
22.1.1	18.8	Advance18: 18	Pass	

22.1.2	18.9	Advance18: 20	Pass	
22.1.3	18.7	Advance18: 16	Pass	
22.1.4	18.10	Advance18: 21	Pass	
22.1.5	18.11	Advance18: 22	Pass	
22.1.6	18.12	Advance18: 23	Pass	
22.1.6.1	18.12	Advance18: 26	Pass	
22.1.6.2	18.12	Advance18: 27	Pass	
22.1.6.3	18.12	Advance18: 28	Pass	
22.1.6.4	18.12	Advance18: 29	Pass	
22.1.6.5	18.12	Advance18: 30	Pass	
22.1.6.6	18.12	Advance18: 31	Pass	
22.1.6.7	18.12	Advance18: 32	Pass	
22.1.6.8	18.12	Advance18: 33	Pass	
22.1.7	18.12	Advance18: 23	Pass	
22.1.8	18.7	Advance18: 16	Pass	
22.2	18.13	Advance18: 38	Pass	
22.2.1	18.13	Advance18: 38	Pass	
22.2.2	18.19	Advance18: 45	Pass	
22.2.3	18.25	Advance18: 52	Pass	
22.2.4	18.31	Advance18: 59	Pass	
22.2.5	18.37	Advance18: 66	Pass	
22.2.6	18.43	Advance18: 72	Pass	
22.2.7	18.43	Advance18: 73	Pass	
'My account/ Subscriptions' page				
23.1	15.8	Advance15: 21	Pass	
23.2	15.8	Advance15: 21	Pass	
23.2.1	15.8	Advance15: 22	Pass	
23.3	15.8	Advance15: 23	Pass	
23.4	15.8	Advance15: 24	Pass	

23.4.1	15.8	Advance15: 24	Pass	
'My account/ Membership history' page				
23.1	15.6	Advance15: 17	Pass	
23.2	15.6	Advance15: 17	Pass	
'My account/ Verify entry numbers' page				
24.1	19.3	Advance19: 27	Pass	
24.1.1	19.4	Advance19: 27	Pass	
24.2	19.5	Advance19: 32	Pass	
24.3	19.6	Advance19: 48	Pass	
24.3.1	19.8	Advance19: 63	Pass	
24.3.2	19.6	Advance19: 50	Pass	
'My account/ Lost password' page				
25.1	20.3	Advance20: 29	Pass	
25.2	20.3	Advance20: 30	Pass	
25.2.1	20.7	Advance20: 40	Pass	
25.2.2	20.11	Advance20: 46	Pass	

Conclusion

MCA's current web application was assessment thoroughly to identify all major front-end requirements. Those requirements are covered in 20 process flows, which are automated by respective 20 test suites. The test suites were written in JavaScript with Playwright framework. Since MCA's current web application is in production and is fully functional, all of the tests naturally passed.

Recommendations

For software developers, the testing framework tests user interactions with HTML elements of web pages (buttons, texts, etc.). As a result, for the testing framework to stay relevant, developers of future enhancements to MCA's web application should not change the following attributes of HTML elements being tested:

- IDs,
- Names,
- Form field placeholders,
- Button text,
- Page titles.

For administrators, it is worth-mentioning that in order to access 'My Account' pages of MCA's web application, a user account was created with information as below:

- Email address: ronald.hoang.2000@gmail.com
- First name: Tester
- Last name: Tester
- Membership: MCA 239289

Extensive consideration was made before the registration of the real account since the tests should be as isolated to MCA's production server as possible. The creation of the account is a one-off activity and therefore does not affect MCA's production too much. Recurrent activities such as changing information, contacting, etc. are mocked and therefore does not interact with

MCA's production server. Security concerns are limited as no real information were stored with the account, except the author's email address.



Testing Report

Front-end Automated Testing
for MCA web application