Project name: **Skybot portal**

Test Object: <https://prometheusqastage1.wixsite.com/skybot>

Test cases for Skybot MVP

1. **User Registration and Authentication**

* User Registration
* Email Verification
* User Login
* Password Recovery

***ID: TC-101***

***Title: User Registration with Valid Data***

***Description: Verify that a user can successfully register with valid data.***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| The user is on the registration page ”Memers” | 1. Open page [Memers | Skybot Electric (prometheusqastage1.wixsite.com)](https://prometheusqastage1.wixsite.com/skybot/members)  2.Push the button “Memers”  3.Click on “Log in”  4.Choose one option of Sing up with Google, Sing up with Facebook or Sing up with mail.  5.Choose option “I’m not a robot”  6. Enter a valid data | User has to have possibility registration with Google, Facebook or email. | Fail | Button “Memers” has a mistake in the word. it should be ”Members”  2.User has to see the button “Log in” on the main page.  User cannot register with valid data |

***ID: TC-102***

***Title: User Registration with Invalid Email***

***Description: Verify that a user cannot register with an invalid email address***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| The user is on the registration page “Memers” | 1.Push the button “Memers”  2.Click on “Log in”  3.Choose option Sing up with mail.  4. Enter an invalid data  5. Choose option “I’m not a robot”  6.Click the button “Sing in” | An error message is displayed indicating the email format is incorrect | Pass |  |

***ID: TC-103***

***Title: Email Verification Link***

***Description: The user has registered and received a verification email***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| The user has registered and received a verification email. | 1.Open the verification email  2. Click the verification link | User's email is verified, and they are redirected to a confirmation page | Fail |  |

***ID: TC-104***

***Title: User Login with Valid Credentials***

***Description: Verify that a user can log in with valid credentials.***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| The user is on the login page “Memers” | 1.Click the button “Log in”  2.Push the phrase“Log in” after phrase “Already a member?”  3.Choose the option “Log in with email”  4. Enter valid email and valid password  5.Click “Log in” | User is successfully logged in and redirected to the homepage | Fail | The phrase “Log in” is not highlighted    User get the message about technical problem |

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#### ***ID: TC-105***

***Title: User Login with Invalid Credentials***

***Description: Verify that a user cannot log in with invalid credentials.***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| The user is on the login page “Memers” | 1.Click the button “Log in”  2.Push the phrase“Log in” after phrase “Already a member?”  3.Choose the option “Log in with email”  4. Enter an unregistered email address  5.Enter an incorrect password.  5.Click “Log in” | An error message is displayed indicating invalid login credentials | Pass |  |

***ID: TC-106***

***Title: Password Recovery with Valid Email***

***Description: Verify that a user can initiate password recovery with a valid email***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| The user is on the password recovery page. | 1.Open page “Memers”  2. Click the button “Log in”  3.Push the phrase“Log in” after phrase “Already a member?”  4.Push the button “Log in with email”  5.Click the button Forgot password?  6. Enter registered email | A password recovery email is sent to the user | Pass | User cannot get password recovery with valid email |

***ID: TC-107***

***Title: Password Recovery with Invalid Email***

***Description: Verify that a user cannot initiate password with an invalid email***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| The user is on the password recovery page. | 1.Open page “Memers”  2. Click the button “Log in”  3.Push the phrase“Log in” after phrase “Already a member?”  4.Push the button “Log in with email”  5.Click the button Forgot password?  6. Enter an unregistered email address | An error message is displayed indicating the email is not registered. | Pass |  |

1. **Product Catalog**

* Viewing Product Listings
* Product Search
* Filtering and Sorting Products
* Viewing Product Details (specifications, images, reviews)

***ID: TC-201***

***Title: Viewing All Products***

***Description: Verify that all products are displayed correctly in the product listings***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| The user is on the Home page | 1.Scroll the home page down  2.Scroll through the list of products. | All products are displayed with correct details such as name, price, and image | Pass | There is no separate button for the catalog with the product (model).  The button “Shop”  can’t be find |

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***ID: TC-202***

***Title: Product Search by Name***

***Description: Verify that the search functionality works correctly when searching by product name***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| The user is on the Home page | 1.Scroll the home page down | Products matching the search criteria are displayed. | Fail | There is no the "Search" button. User cannot find a product name in the search bar. |

***ID: TC-203***

***Title: Filtering Products by Price Range***

***Description: Verify that the filtering functionality works correctly when filtering by price range***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| The user is on Home page | 1.Scroll the home page down | Products within the selected price range are displayed | Fail | There is no the option for User to select a price range filter |

***ID: TC-204***

***Title: Sorting Products by Price***

***Description: Verify that the sorting functionality works correctly when sorting by price.***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| The user is on Home page | 1/Scroll the home page down | Products are sorted by price in the selected order (ascending/descending). | Fail | There is no the option for User to sort products by a price range filter |

***ID: TC-205***

***Title: Viewing Product Details***

***Description: Verify that detailed information about a product is displayed correctly.***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| The user is on the Home page | 1.Open home page  2.Scroll the page down  3.Click on a product from the list  4.View the product details page | Product details such as images, specifications, and reviews are displayed correctly | Pass | All products have different description, there is no one template for displaying detailed information |

1. **Cart Management**

* Adding Items to Cart
* Viewing Cart Contents
* Updating Item Quantities in Cart
* Removing Items from Cart
* Clearing the Cart

***ID: TC-301***

***Title: Add Single Item to Cart***

***Description: Verify that a single item can be added to the cart from the Home page***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User is logged in and on the Home page | 1.Navigate to a Home page  2.Scroll the page down  3.Click on a product “Skybot Dualtron” from the list  4.Click the button “Додати у кошик”("Add to Cart")  5.Observe the cart icon or notification | The item is added to the cart, and the cart icon updates to reflect the addition | Pass |  |

***ID: TC-302***

***Title: View Cart Contents***

***Description: Verify that the cart displays all added items with correct details***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User has added items to the cart | 1.Click on the cart icon or "View Cart" button  2.Verify the list of items, their names, prices, and quantities  3.Verify cart totals | All items are displayed with correct details, and cart totals are accurate | Pass | The number of products and the cost change correctly, but the information is displayed in different languages |

***ID: TC-303***

***Title: Update Item Quantities in Cart***

***Description: Verify that the quantity of items in the cart can be updated***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User has items in the cart | 1.Open the cart  2.Change the quantity of an item  3.Verify that the new quantity is saved and cart totals update accordingly. | The item quantity updates correctly, and the cart totals are recalculated | Pass |  |

***ID: TC-304***

***Title: Remove Item from Cart***

***Description: Verify that an item can be removed from the cart***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User has items in the cart | 1.Open the cart  2.Click the "Remove" button (x) next to an item | The item is removed from the cart, and the cart totals are updated | Pass |  |

***ID: TC-305***

***Title: Clear All Items from Cart***

***Description: Verify that all items can be cleared from the cart in a single action***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User has items in the cart | 1.Open the cart  2.Click the | All items are removed, and the cart is empty with totals reset to zero | Pass |  |

1. **Checkout Process**

* Initiating Checkout
* Entering Shipping Information
* Selecting Payment Methods
* Reviewing Order Summary
* Placing an Order
* Order Confirmation

***ID: TC-401***

***Title: Initiate Checkout Process***

***Description: Verify that the checkout process can be initiated from the cart***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User has items in the cart | 1.Open the cart  2.Click the button "Оформити замовлення” (Checkout" button)  3.Observe the navigation to the checkout page | User is redirected to the checkout page successfully |  |  |

***ID: TC-402***

***Title: Enter Shipping Information***

***Description: Verify that the user can enter and save shipping information***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User is on the checkout page | 1.Enter valid shipping address details.  2.Click "Continue" or "Save".  3.Verify the details are saved and proceed to the next step | Shipping information is saved, and user moves to the next step in the checkout process | Fail |  |

***ID: TC\_403***

***Title: Select Payment Method***

***Description: Verify that the user can select a payment method***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User is on the payment selection step in the checkout process | 1.Choose a payment method (e.g., credit card, PayPal).  2. Enter payment details.  3. Click "Continue" | Payment method is selected and payment details are accepted. |  |  |

***ID: TC-404***

***Title: Review Order Summary***

***Description: Verify that the user can review the order summary before placing the order***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User has entered shipping information and selected a payment method | 1.Navigate to the order summary page. 2. Review the items, shipping details, and payment details.  3. Verify all details are correct. | All order details are correctly displayed for review |  |  |

***ID: TC-405***

***Title: Place an Order***

***Description: Verify that the user can place an order successfully***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User has reviewed the order summary | 1.Click the "Place Order" button.  2.Verify that the order is processed. | The order is successfully placed, and the user is navigated to the order confirmation page |  |  |

***ID: TC-406***

***Title: Receive Order Confirmation***

***Description: Verify that the user receives an order confirmation***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User has successfully placed an order | 1.Check for order confirmation message on the website.  2. Check for order confirmation email. | Order confirmation message is displayed on the website, and an order confirmation email is received |  |  |

1. **Payment Processing**

* Handling Different Payment Methods (credit card, PayPal, etc.)
* Payment Validation
* Handling Payment Errors
* Generating Payment Receipts

***ID: TC-501***

***Title: Handle Different Payment Methods***

***Description: Verify that the system supports and processes various payment methods such as credit card and PayPal***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User is on the payment selection step in the checkout process | 1.Select "Credit Card" as the payment method.  2. Enter valid credit card details.  3. Click "Pay".  4. Repeat steps for PayPal. | Payment is processed successfully for both credit card and PayPal. |  |  |

***ID: TC-502***

***Title: Validate Payment Details***

***Description: Verify that the system validates payment details correctly before processing the payment***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User is on the payment selection step with payment details entered | 1.Enter invalid credit card number.  2. Click "Pay". 3. Enter valid credit card number but invalid CVV.  4. Click "Pay". | System displays appropriate validation errors for invalid payment details |  |  |

***ID: TC\_503***

***Title: Handle Payment Errors***

***Description: Verify that the system handles payment errors gracefully and provides meaningful error messages.***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User is on the payment selection step with payment details entered. | 1.Simulate a declined credit card transaction.  2. Click "Pay". 3. Observe error message. 4. Repeat with PayPal and simulate an error. | System displays appropriate error messages for payment errors |  |  |

***ID: TC\_504***

***Title: Generate Payment Receipt***

***Description: Verify that the system generates a payment receipt after a successful transaction.***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User has completed a payment successfully | 1.Complete a purchase.  2. Check for the receipt generation on the confirmation page.  3. Verify the receipt details in the email. | Payment receipt is generated and includes all necessary transaction details |  |  |

1. **User Reviews and Ratings**

* Adding a Review
* Viewing Reviews
* Rating Products

***ID: TC-601***

***Title:*** Add a Review

***Description:*** Verify that the user can successfully add a review for a product

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User is logged in and has purchased the product they want to review | 1.Navigate to the product page.  2. Click on "Write a Review".  3. Enter review details (title, body, rating).  4. Click "Submit". | Review is added successfully and displayed under the product reviews section | Fail | There is no reviews section under the products |

***ID: TC-602***

***Title: View Reviews***

***Description: Verify that the user can view all reviews for a product***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| Product has existing reviews | 1.Navigate to the product page.  2..Scroll down to the reviews section.  3. Verify that all reviews are displayed correctly. | All reviews for the product are displayed correctly, including review details and ratings | Fail | There is no reviews section under the products |

***ID: TC-603***

***Title: Rate a Product***

***Description: Verify that the user can rate a product successfully***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User is logged in and has purchased the product they want to rate | 1.Navigate to the product page.  2. Click on "Write a Review".  3. Select a rating (e.g., 1-5 stars).  4. Click "Submit". | Rating is added successfully and displayed under the product reviews section | Fail | User has no possibility for edding rating with stars |

1. **Customer Support**

* Contacting Customer Support
* Viewing FAQs
* Using Live Chat

***ID: TC-701***

***Title: Contact Customer Support via Contact Form***

***Description: Verify that the user can successfully contact customer support using the contact form***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User is logged in | 1.Navigate to the Home page  2. Scroll down to form "Contact Us"  3. Fill in the contact form with necessary details (name, email, subject,message).  4.Click "Submit". | A confirmation message is displayed indicating that the message has been successfully sent to customer support | Pass |  |

***ID: TC-702***

***Title: View Frequently Asked Questions (FAQs)***

***Description: Verify that the user can view a list of frequently asked questions***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| FAQ are available on the portal | 1.Navigate to the "FAQ" page. 2. Browse through the list of questions and answers. | The user can view and read all FAQs without any issues | Pass |  |

***ID: TC-703***

***Title: Use Live Chat for Support***

***Description: Verify that the user can successfully initiate and use the live chat feature to contact customer support***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| Live chat feature is active and an agent is available | 1.Navigate to the button “Let’s Chat” in the right down corner  2. Click on the live chat icon.  3. Enter a message in a conversation field. | The user is able to initiate a chat, send and receive messages, and end the chat session successfully | Pass |  |

1. **Performance Testing**

* Page Load Speed
* Handling High Traffic
* Response Times

***ID: TC-801***

***Title: Verify Page Load Speed***

***Description: Ensure that the webpage loads within the acceptable time frame for end users.***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| Test environment is set up and performance monitoring tools are in place. | 1. Open the target webpage.  2. Measure the time it takes for the page to fully load.  3. Compare the load time against the target performance criteria | The page loads within the specified time limit (less than 3 seconds) | Pass |  |

***ID: TC-802***

***Title: Verify System Performance Under High Traffic***

***Description: Ensure that the system can handle a high volume of traffic without significant degradation in performance.***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| Load testing tools are set up to simulate high traffic conditions | 1.Configure the load testing tool to simulate a high number of concurrent users.  2. Execute the test.  3. Monitor system performance during the test. | The system remains responsive and stable under high traffic conditions. | Pass |  |

***ID: TC-803***

***Title: Verify Response Times for Different User Actions***

***Description: Ensure that various actions performed by users (e.g., searching, submitting forms) are completed within acceptable response times***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| Test environment is configured with performance monitoring tools | 1.Perform specific user actions on the application.  2. Measure the time taken for the system to respond.  3. Compare response times against the performance criteria | All user actions complete within the acceptable response time limits (e.g., less than 2 seconds | Pass |  |

1. **Mobile Responsiveness**

* Viewing the Site on Different Devices
* Verify Site Layout on Different Mobile Browsers
* Mobile Navigation

***ID: TC-901***

***Title: Verify Site Layout on Different Mobile Devices***

***Description: Ensure that the website displays correctly on various mobile devices (e.g., smartphones, tablets)***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| Access to multiple mobile devices or device emulators | 1.Open the website on a smartphone.  2. Verify the layout, images, and text alignment.  3.Repeat steps on a tablet.  4. Verify consistency across devices | The site layout is correctly displayed without any broken elements or misalignment on all devices | Pass |  |

***ID: TC-902***

***Title: Verify Site Layout on Different Mobile Browsers***

***Description: Ensure that the website displays correctly on various mobile browsers (e.g., Chrome, Safari, Firefox)***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| Access to multiple mobile devices with different browsers installed | 1.Open the website on a smartphone using Chrome.  2. Verify the layout, images, and text alignment.  3. Repeat steps on Safari and Firefox.  4. Verify consistency across browsers | The site layout is correctly displayed without any broken elements or misalignment on all browsers | Pass |  |

***ID: TC-903***

***Title: Verify Mobile Navigation***

***Description: Ensure that navigation menus and links are easily accessible and functional on mobile devices***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| Access to multiple mobile devices or device emulators | 1.Open the website on a smartphone.  2. Tap on the navigation menu icon Home page.  3. Verify that the menu expands and all links are visible.  4. Tap on various menu links to ensure they navigate correctly.  5. Repeat steps on a tablet. | Navigation menus expand correctly, and all links are functional and accessible on all devices | Pass |  |

1. **Administrative Functions**

* Managing Product Listings
* Processing Orders
* Handling Returns and Refunds

***ID: TC-1001***

***Title: Verify Adding New Product Listings***

***Description: Ensure that the admin can add new product listings to the catalog***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| Admin is logged into the admin panel | 1.Navigate to the "Add Product" section in the admin panel.  2. Enter product details (name, description, price, images, 3. Click the "Save" button. | The new product is added to the catalog and is visible on the main site |  |  |

***ID: TC-1002***

***Title: Verify Order Processing***

***Description: Ensure that the admin can view and process customer orders***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| Admin is logged into the admin panel. | 1.Navigate to the "Orders" section in the admin panel.  2. Select an order to process.  3. Update the order status (e.g., processing, shipped).  4. Save changes. | The order status is updated and reflects correctly in the customer's order history |  |  |

***ID: TC-1003***

***Title: Verify Handling of Returns and Refunds***

***Description: Ensure that the admin can process returns and issue refunds***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| Admin is logged into the admin panel | 1.Navigate to the "Returns" section in the admin panel.  2. Select a return request.  3. Approve or reject the return.  4. If approved, process the refund. | The return request is handled appropriately and the customer is notified |  |  |

**11. Ability to sign up for a test drive**

* Verifying User Sign-Up for Test Drive
* Validating Test Drive Confirmation Email

***ID: 1101***

***Title: Verify User Sign-Up for Test Drive***

***Description: Ensure that users can successfully sign up for a test drive of a vehicle***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User is logged into portal | 1.Navigate to the button “Shop online”  2. Click on the button “Записатися” | The user receives a confirmation message and an email confirming their test drive appointment | Fail |  |

***ID: 1102***

***Title: Verify Test Drive Confirmation Email***

***Description: Ensure that users receive a confirmation email after signing up for a test drive.***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User has successfully signed up for a test drive | 1.Check the registered email address.  2. Look for the test drive confirmation email.  3. Verify that the email contains accurate details of the test drive appointment (date, time, vehicle details, etc.). | The confirmation email is received promptly and contains correct information about the test drive appointment. |  |  |

**12. Video Hosting Integration**

* Platform Compatibility Check
* Integrated Video Playback
* Video Review Rating and Commenting

***ID: TC-1201***

***Title:*  Platform Compatibility Check**

***Description:*** Verify the ability to integrate with popular video hosting platforms such as YouTube

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| Correct configuration of API keys and access to the video hosting platform | 1. Establish connection to YouTube  2.Verify ability to fetch list of videos  3.Verify ability to embed videos on product pages of the portal | Videos from YouTube are successfully displayed on the product page |  |  |

***ID: TC-1202***

***Title: Integrated Video Playback***

***Description: Verify the ability for users to watch video reviews directly on product pages of the portal***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| Video reviews successfully uploaded from the video hosting platform to the portal. | 1.Navigate to a product page with a video review  2.Click on the play button to start video playback  3.Verify the presence of playback controls (play, pause, fullscreen) | The video review plays smoothly without interruptions and includes playback control options. |  |  |

***ID: TC-1203***

***Title: Video Review Rating and Commenting***

***Description: Validate users' ability to rate video reviews, leave comments, and share them on the portal***

| Preconditions | Test Steps | Expected Result | Status | Notes |
| --- | --- | --- | --- | --- |
| User is logged in and has access to rating and commenting functionality | 1.Open a page with a product video review.  2.Rate the video review using the rating system  3.Leave a comment below the video  4.Check for social sharing buttons for sharing comments | The video review rating and comments are displayed correctly and saved on the portal. |  |  |