

Release / Acceptance Tests

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1.0 Version History

Version	Date	Change
1.0	26/5/2017	Added headings.
1.1	27/5/2017	Added functional test scripts for battery delivery and registering for new account.
1.2	28/5/2017	Added remaining functional test scripts.
2.0	29/6/2017	Added all non-functional requirements test scripts.
2.1	30/5/2017	Finalised all test scripts.

2.0 Functional Test Scripts

2.1 Battery Delivery

Sequence of Events	Typical: Deliver batteries from warehouse to service stations				
Success Criteria	Delivery status is set to “Delivered”				
Pre-Requisites	Battery and destination information must be there with delivery staff and order has been prepared.				
Known Issues					
Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	Pick up the batteries from warehouse. Change delivery status to “On route”.	Update delivery status to “On route”.		Change of status to take place only after pick up has occurred.	
2.	Install batteries at destination. Change delivery status to “Delivered”	Update delivery status to “Delivered”.		Change of status to take place only after delivery has occurred.	

Sequence of Events	Alternative 1: Order canceled during delivery				
Success Criteria	Delivery status set to “Canceled”				
Pre-Requisites	Battery and destination information must be there with delivery staff and order has been prepared.				
Known Issues					

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	Pick up the batteries from warehouse. Change delivery status to “On route”.	Update delivery status to “On route”.		Change of status to take place only after pick up has occurred.	
2	Operations Staff cancels the order that is being delivered.	Update delivery status to “Canceled”, instructions are sent to delivery staff to return to origin (Warehouse)			

Sequence of Events	Alternative 2: Order is unable to be delivered
Success Criteria	Delivery status set to “Unable to be delivered”
Pre-Requisites	Battery and destination information must be there with delivery staff and order has been prepared.
Known Issues	

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	Pick up the batteries from warehouse. Change delivery status to “On route”.	Update delivery status to “On route”.		Change of status to take place only after pick up has occurred.	
2	Delivery staff changes the status to “Unable to be delivered”.	Update delivery status to “Unable to be delivered”, send instructions are sent to delivery staff to return to origin (Warehouse).			

2.2 Registering a New Account

Sequence of Events	Typical: Customer enters all information correctly and account is successfully created.
Success Criteria	All the information entered is valid and the account is successfully created.
Pre-Requisites	<ol style="list-style-type: none">1. The customer does not already have an existing account.2. The customer's email is valid.
Known Issues	

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	Customer clicks to register a new account	The system opens up a "Create account" page and requests for the customer's email and to pick a password			
2.	Customer enters in personal details and submits	The system validates all information and creates the account	Valid email, password, first and last name, license number, date of birth, address, contact number.	All information entered must be valid	

Sequence of Events	Alternative 1: Customer has left some answer fields blank and account creation cannot proceed.
Success Criteria	All the information entered is valid and the account is successfully created.
Pre-Requisites	<ol style="list-style-type: none"> 1. The customer does not already have an existing account. 2. The customer's email is valid.
Known Issues	

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	Customer clicks to register a new account	The system opens up a "Create account" page and requests for the customer's email and to pick a password			
2.	Customer enters in personal details and submits (leaving a few questions unanswered)	The system checks if all answers fields have been answered; and sends an error message to the customer stating that there are unanswered fields.	Valid email, password, first and last name, date of birth, contact number. (Customer leaves out license number and address)	The system checks that all fields are not blank.	

Sequence of Events	Alternative 2: Customer has entered invalid answers/information whilst creating the account; the account fails to be registered.
Success Criteria	All the information entered is valid and the account is successfully created.
Pre-Requisites	<ol style="list-style-type: none"> 1. The customer does not already have an existing account. 2. The customer's email is valid.
Known Issues	

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	Customer clicks to register a new account	The system opens up a "Create account" page and requests for the customer's email and to pick a password			
2.	Customer enters in personal details and submits (with invalid answers)	The system goes through all answers and validates the information given. The system determines one or more answers to be invalid and sends an error message requesting the customer to re-enter their information.	Valid email, password, first and last name, date of birth, contact number. (Customer enters a non-existing license number and an address that is out of the country)	The system uses 3rd party agencies to check the license number validity (government body). The system checks the postcode of the address to ensure it is within the country.	

2.3 Login to Account

Sequence of Events	Typical: Customer logs into their account.
Success Criteria	The customer is successfully logged in.
Pre-Requisites	1. Customer has an existing account. 2. Customer is on the login page.
Known Issues	

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	Customer enters valid email and password.	The user is logged in and the homepage is displayed.	Valid email and valid password	The system searches for an account that matches the email and checks that the password is a match.	

Sequence of Events	Alternative 1: Invalid email.
Success Criteria	The customer is unable to log in.
Pre-Requisites	1. Customer is on the login page.
Known Issues	

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	Customer enters an invalid email.	The system prompts the user that the email entered is invalid, requests user to try again.	Invalid email (with a spelling error) and valid password	The system looks for an account with the same email.	

Sequence of Events	Alternative 2: Invalid password.				
Success Criteria	The customer is unable to log in.				
Pre-Requisites	1. Customer is on the login page.				
Known Issues					
Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	Customer enters an invalid password.	The system prompts the user that the password entered is invalid, requests user to try again.	Valid email and invalid password (contains unaccepted characters).	The system searches for an account with the email and checks that the passwords match.	

2.4 Report Stolen Batteries

Sequence of Events	Typical: Customer lists vehicle as stolen and battery is marked as stolen; system locates the battery.
Success Criteria	The battery is flagged as “Stolen” and its location is tracked.
Pre-Requisites	<ol style="list-style-type: none">1. The customer has an existing account and is logged in2. The customer has registered a vehicle and assigned a battery to it
Known Issues	

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	Customer clicks to view the list of registered vehicles in their account	The system displays the list of vehicles registered in the customer’s account.			
2.	Customer selects the vehicle they wish to report as stolen	The system opens up an information page for that vehicle			
3	Customer selects to list the vehicle as stolen	The system updates the vehicle’s status to”Stolen” and marks the battery assigned to the vehicle as “Stolen”. The system then tracks the battery’s location. The battery’s location is displayed as (location)(postcode).		System flags battery as “Stolen” and if it checks into any service station, the battery ID will trigger the system.	

Sequence of Events	Alternative 1: Customer lists vehicle as stolen and battery is marked as stolen; system is unable to locate the battery.
Success Criteria	The battery is flagged as “Stolen” but its location is unknown.
Pre-Requisites	3. The customer has an existing account and is logged in 4. The customer has registered a vehicle and assigned a battery to it
Known Issues	

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	Customer clicks to view the list of registered vehicles in their account	The system displays the list of vehicles registered in the customer’s account.			
2.	Customer selects the vehicle they wish to report as stolen	The system opens up an information page for that vehicle			
3	Customer selects to list the vehicle as stolen	The system updates the vehicle’s status to”Stolen” and marks the battery assigned to the vehicle as “Stolen”. The system then attempts to track the battery’s location but fails. The battery’s location is displayed as “unknown”.		System flags battery as “Stolen” and if it checks into any service station, the battery ID will trigger the system.	

2.5 Add Service Station

Sequence of Events	Typical: The operations staff enters the service station information and the system successfully adds it.
Success Criteria	The service station is added to the system.
Pre-Requisites	1. The service station has not been added to the system yet. 2. The operations staff is authorised and is already logged in.
Known Issues	

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	The operations staff clicks to add a new service station.	The system opens up an “Add service station” page and requests for the operations staff to enter information about the service station.			
2.	The operations staff enters information about the service station.	The system validates all information and adds the service station to the eBattery system.	Valid service station ID	The system checks with 3rd party agencies to ensure this establishment (service station) with that particular ID exists.	

Sequence of Events	Alternative 1: The operations staff enters the service station information but the information is invalid and the system fails to add the service station.
Success Criteria	The service station is added to the system.
Pre-Requisites	<ol style="list-style-type: none"> 1. The service station has not been added to the system yet. 2. The operations staff is authorised and is already logged in.
Known Issues	

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	The operations staff clicks to add a new service station.	The system opens up an “Add service station” page and requests for the operations staff to enter information about the service station.			
2.	The operations staff enters information about the service station.	The system checks the information and deems one or more answers to be invalid. The system sends an error message stating the information is invalid and requests the operation staff to re-enter the information.	Invalid service station ID	The system checks with 3rd party agencies to ensure this establishment (service station) with that particular ID exists.	

3.0 Non-Functional Test Scripts

3.1 NFR 1: Website Responsiveness

Success Criteria	The website can be opened in any device and give the results faster to the user.
Pre-Requisites	1. Customer must have a bandwidth of at least 10 mbps for downloading and uploading.
Known Issues	

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	Customer opens the login page.	The website will display and be ready for login details within 40 seconds.	server log file		
2	Customer enters valid email and password.	Customer is successfully logged in and brought to the user homepage within 40 seconds.	server log file		

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	Customer navigates from the homepage to the account balance page.	Account balance page is displayed within 40 seconds of clicking the link.	server log file		

3.2 All data is stored securely

Success Criteria	All data stored is secure and only authorised individuals are allow access.
Pre-Requisites	Staff is already logged in
Known Issues	

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	A warehouse staff wishes to edit details of a service station	Error message stating they have been denied access to management of service stations.	server history and warehouse staff account		

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	A warehouse staff attempts to cancel an order.	Error message stating they are only allowed to view orders, denied access to cancel an order.	server history and warehouse staff account		

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	A delivery staff attempts to access a customer's details.	Error message stating they have been denied access to customer's details.	server history and delivery staff account		

3.3 System must recover within 60 minutes if a major failure occurs

Success Criteria	The system can be rebooted and restored within 60 mins.
Pre-Requisites	A system backup exists that has duplicate copies of all data stored in case recovery is required.
Known Issues	

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	The system is suddenly shut down while under normal operation.	Complete sudden shutdown of the system .	server log file and crash data		
2	The system is rebooted from and the last backup is restored	The system must be able to return to normal operations within 60 minutes.	server log file and crash data		

3.4 All passwords must not be stored as plaintext

Success Criteria	All the customers and staff passwords are secured so no one can access their data
Pre-Requisites	<ol style="list-style-type: none">1. Password must be in the format includes special characters, numbers, one capital letter2. Once the user or staff enters the password it must be encrypted to 0's and 1's and decrypt when reaches the web server
Known Issues	

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	If a user or staff change their password	<ol style="list-style-type: none">1. System asks for old password2. System will show the new password must have format includes special characters, numbers, one capital letter	database containing emails and passwords		
2	Customer or Staff login to their account by their Id and Password	Front end will automatically encrypt the details of the user in 0's and 1's and decrypt it when reaches the server	and passwords		

3.5 Customer website usability

Success Criteria	Customers are able to navigate through the website and complete the task they set out to do within 10 minutes (including load times)
Pre-Requisites	Customer uses valid details. User has not used the website before.
Known Issues	

Step	Execution Steps	Expected Result	Test Data	Comments	Pass / Fail
1	The user is tasked to log in to the account, check their account balance, top-up their account and complete the payment. (In that order)	User is able to complete the tasks in the proper order with minimal difficulties and within 10 minutes of starting.	server log file		