1. Test Plan

1.1. Purpose

This test plan describes the necessary tests for our system.

To proof that our system is delivering the right data, we implement unit tests for each method and class to check our system variables for integrity.

Use Case

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case** | **Pre-Condition** | **Post-Condition** | **Expected Outcome** |
| **Log in** | Fill in User Account Details.  Press log in button. | Access the Website. | User Dashboard |
| **Create an Account** | Press „Register Here“ button.  Fill in required Account Data. | Creating an Account. | Create Account Form  Leads to Login Form |
| **Edit Account Details** | Click Edit button.  Click what category to change.  Fill in new Details.  Save the Input. | Account details get updated.  User will stay on the Account Details tab | User Edit Form |
| **Delete Account Details** | Click Delete button. | Account information´s get deleted.  User will be signed out of the page | Leads to Login Form |
| **Add new Car** | Click add car button.  Fill in Car type + numberplate.  Click save button. | New Car added to the Account.  User will be renavigated to the User Page | Leads to Edit page |
| **View outstanding payment** | Click on the Payment Button. | View all outstanding payments  Default sorted by Time. | View List of Payments |
| **Sorting bills** | Click on sorting tab  Choose by time or Amount to pay. | Sorted Payments list. | View List of sorted Payments |

Customer´s page system test

**T1 – Log in**

The user should be able to log into the website and access his information’s.

A user should not be able to access the admin pages.

Invalid input wont grant access to the website.

Only 5 tries to access the side until the login form will be locked for 5 minutes.

**T2 – Create an account**

The user should be able to create an account to access the website.

To create an account the user has to fill up a html form with personal data.

The user must verify his email to grant access.

**T3 – View -edit -delete -add account details**

Once the user has access to the system, he should be able to view edit add and delete his account details.

View: got access to his personal information´s and bills.

Edit: be able to edit personal information´s.

Add: be able to add a second numberplate.

Delete: be able to delete his account and all personal Data.

Will not affect saved Charging Records.

**T4 – View outstanding payment**

The user should be able to see his bills if there is any matching numberplate in the system.

**T5 – Sort bills**

The user should be able to sort his bills by: Time, Cash

**Admin´s page system test**

**T6 – View all Customers + roles**

The admin should manage the user´s role in the system and edit it.

The admin can delete a customer’s account if needed.

**T7 – Charging Records**

The admin should have access to all charging records.

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Use Case** | **Testing Usage** | **Tested yet** |
| **T1-T2** | **T1-T2**  **Create an Account**  **Log in** | **Manually Tested**  **Check if the User Input got the same format as wanted.**  **Test if a User can be created without any information provided.**  **Test if the Users-Input is correct translated.** |  |
| **T3** | **T3**  **View Account Details**  **Edit Account Detail**  **Delete Account Detail** | **Manually Tested**  **Generate a second Output of all registered Users and their details on the admin dashboard** |  |
| **T4** | **T4**  **View Outstanding Payment** | **Test if numberplates can be matched.**  **Creating a method that returns a Boolean if a numberplate is matched.**  **If the Boolean is True, the User can see his Bills.** |  |
| **T5** | **T5**  **Sorting System for Bills** | **System Tested**  **Check if the Output still has all records in it.** |  |
| **T6** | **T6**  **View all Customers + roles** | **Admin´s page will list all user`s from the system and their roles** |  |
| **T7** | **T7**  **Charging Records** | **Admin should be able to view all Records** |  |

**2. Test Environment User**

2.1

For Testing purposes, we create some Test users with matching numberplates to check if the system will display the right content on the website.

2.2

We also check if the test user has the right system role and what he can access on the website.

2.3

Then we proof if the Sorting bill system is working and whether we can edit the personal data and add a new car to the system.

2.4

After the test user has edited his profile we check if the data stays after he logged out and again in on the website.

2.5

As last we proof if the Delete function will clear all personal Data out of the Database.

**3. Test Environment Admin**

3.1

3.2