

# Project: Clean and Green

## Test Documentation

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Link to project repo: <https://github.com/nazislam/CSC-Project-Clean-Green.git>

Website Link: <http://clean-and-green.herokuapp.com>

### User Type: Client

#### Test scenario: Check User Registration

Test Case	Precondition	Test Step	Test Data	Expected Result	Actual Result	Pass/Fail
01. Check response on entering first name, last name, email address, password, and user type	A user must open the application on a web browser through a specific link.	1. Launch application 2. Click <b>Register</b> button 3. Enter first name 4. Enter last name 5. Enter email address 6. Enter password 7. Choose user type 8. Click <b>Submit</b> .	1. Firstname: John 2. Lastname: Smith 3. Email: john@smith.com 4. Password: john 5. Usertype: Client	Registration successful	<p>User is registered as a client and the application opens homepage so user can login</p>	Pass
02. Check response on entering invalid first name, last name, email address, password, and user type	A user must open the application on a web browser through a specific link.	1. Launch application 2. Click <b>Register</b> button 3. Enter first name 4. Enter last name 5. Enter email address 6. Enter password 7. Choose user type 8. Click <b>Submit</b> .	1. Firstname: (blank) 2. Lastname: Smith 3. Email: john@smith.com 4. Password: john 5. Usertype: Client  1. Firstname: John 2. Lastname: (blank) 3. Email: john@smith.com 4. Password: john 5. Usertype: Client  1. Firstname: John 2. Lastname: Smith 3. Email: (blank) 4. Password: john 5. Usertype: Client  1. Firstname: John 2. Lastname: Smith 3. Email: john@smith.com 4. Password: (blank) 5. Usertype: Client  1. Firstname: (blank) 2. Lastname: (blank) 3. Email: (blank) 4. Password: (blank) 5. Usertype: (blank)	Registration failed	<p>User is not registered and the application shows a flash message saying email or password is wrong.</p>	Pass
Post Condition	Based on the user type, user info is stored in the database					

#### Test scenario: Check User Login

Test Case	Precondition	Test Step	Test Data	Expected Result	Actual Result	Pass/Fail
Example of a registered user: Email address: john@smith.com Password: john						
01. Check response on entering valid email address and password	A user must open the application on a web browser through a specific link.	1. Launch application 2. Click <b>Login</b> button 3. Enter email address 4. Enter password 5. Click <b>Login</b> .	1. Email: john@smith.com 2. Password: john	User login successful	<p>Login successful and the application displays client user interface.</p>	Pass
02. Check response on entering invalid email and valid password			1. Email: johnsmith@gmail.com 2. Password: john	Login failed	<p>User failed to login and the application reopen the login page</p>	
03. Check response on entering valid email and invalid password (case sensitive)	A user must open the application on a web browser through a specific link.	1. Launch application 2. Click <b>Login</b> button 3. Enter email address 4. Enter password 5. Click <b>Login</b> .	1. Email: john@smith.com 2. Password: JoHn	Login failed		Pass
04. Check response on entering invalid email and password			1. Email: johnsmith@gmail.com 2. Password: wrongpass	Login failed		
Post Condition	The application will create a session for the client to send a pickup request.					

#### Test scenario: Send Pickup Request

Test Case	Precondition	Test Step	Test Data	Expected Result	Actual Result	Pass/Fail
Example of a registered user: Email address: john@smith.com Password: john						
01. Check response on entering valid street, city, state, zip code, recycle item and number of bags	A user must sign in as a client and click 'Request Pick up' link	1. Sign in as a client 2. Click 'Pickup request' 3. Enter valid street 4. Enter valid city 5. Enter valid state 6. Enter valid zip 7. Picking one of the recycle item 8. Choose a number of bags 9. Click 'Submit'	1. street: 101 Broad St. 2. city: Pittsburgh 3. state: NY 4. zip code: 12901 5. recycle item: paper 6. number of bags: 2	Pickup request sent successfully	<p>A pick up request has been sent successfully to the server side, and client UI shows a marker on the specific location.</p>	Pass
02. Check response on sending pickup request leaving street address empty			1. street: (empty) 2. city: Pittsburgh 3. state: NY 4. zip code: 12901 5. recycle item: paper 6. number of bags: 2	Ask user to enter a street address	<p>Sending pick up request failed</p>	Pass
03. Check response on sending pickup request leaving city address empty			1. street: 101 Broad St. 2. city: (empty) 3. state: NY 4. zip code: 12901 5. recycle item: paper 6. number of bags: 2	Ask user to enter a valid city	<p>Sending pick up request failed</p>	Pass
04. Check response on sending pickup request leaving state address empty			1. street: 101 Broad St. 2. city: Pittsburgh 3. state: (empty) 4. zip code: 12901 5. recycle item: paper 6. number of bags: 2	Ask user to enter a valid state	<p>Sending pick up request failed</p>	Pass
05. Check response on sending pickup request leaving zip code address empty	A user must sign in as a client and click 'Request Pick up' link	1. Sign in as a client 2. Click 'Pickup request' 3. Enter valid street 4. Enter valid city 5. Enter valid state 6. Enter valid zip 7. Picking one of the recycle item 8. Choose a number of bags 9. Click 'Submit'	1. street: 101 Broad St. 2. city: Pittsburgh 3. state: NY 4. zip code: (empty) 5. recycle item: paper 6. number of bags: 2	Ask user to enter a valid zip code	<p>Sending pick up request failed</p>	Pass
06. Check response on sending pickup request leaving recycle item empty			1. street: 101 Broad St. 2. city: Pittsburgh 3. state: NY 4. zip code: 12901 5. recycle item: (empty) 6. number of bags: 2	Ask user to pick at least one recycle item	<p>Sending pick up request failed</p>	Pass
07. Check response on sending pickup request leaving number of bags empty			1. street: 101 Broad St. 2. city: Pittsburgh 3. state: NY 4. zip code: 12901 5. recycle item: paper 6. number of bags: (empty)	Ask user to pick from the given number of bags	<p>Sending pick up request failed</p>	Pass
08. Check response on entering invalid street, city, state, zip code, recycle item and number of bags			1. street: (empty) 2. city: (empty) 3. state: (empty) 4. zip code: (empty) 5. recycle item: (empty) 6. number of bags: (empty)	Ask user to fill up required fields	<p>Sending pick up request failed</p>	Pass
09. Check response on sending a pickup request while the previous request is not processed yet			1. street: 101 Broad St. 2. city: Pittsburgh 3. state: NY 4. zip code: 12901 5. recycle item: paper 6. number of bags: 2	since the client has a pending request, database will not save a new request	<p>Sending pick up request failed</p>	Pass
Post Condition	On successful pick up request, the map UI will render a marker on the specific location.					

#### Test scenario: Check Client Profile

Test Case	Precondition	Test Step	Test Data	Expected Result	Actual Result	Pass/Fail
01. Check response on opening profile information by click 'Profile' link	A user must sign in as a client and click 'Profile' link	1. Sign in as a client 2. Click 'Profile' in the navigation	—	Render Profile Page	<p>The application will open user profile where they can verify their name, user-type, and password.</p>	Pass
Post Condition	Based on the user type, it will show user information.					

#### Test scenario: Check User Logout

Test Case	Precondition	Test Step	Test Data	Expected Result	Actual Result	Pass/Fail
01. Check response on logging out by clicking 'Logout' link	A user must sign in as a client or driver	1. Sign in as a client or driver 2. Click 'Logout' in the navigation	—	User logged out successfully	<p>The application will destroy the session associated to the user to redirect to homepage.</p>	Pass
Post Condition	Redirect to homepage.					

### User Type: Driver

#### Test scenario: Check Driver User Registration

Test Case	Precondition	Test Step	Test Data	Expected Result	Actual Result	Pass/Fail
01. Check response on entering first name, last name, email address, password, and user type	A user must open the application on a web browser through a specific link.	1. Launch application 2. Click <b>Register</b> button 3. Enter first name 4. Enter last name 5. Enter email address 6. Enter password 7. Choose user type 8. Click <b>Submit</b> .	1. Firstname: Bob 2. Lastname: Jones 3. Email: Bob@Jones.com 4. Password: Bob 5. Usertype: Driver	Registration successful	<p>User is registered as a driver and the application shows a flash message to log in.</p>	Pass
02. Check response on entering invalid first name, last name, email address, password, and user type	A user must open the application on a web browser through a specific link.	1. Launch application 2. Click <b>Register</b> button 3. Enter first name 4. Enter last name 5. Enter email address 6. Enter password 7. Choose user type 8. Click <b>Submit</b> .	1. Firstname: (blank) 2. Lastname: Jones 3. Email: Bob@Jones.com 4. Password: Bob 5. Usertype: Driver  1. Firstname: Bob 2. Lastname: (blank) 3. Email: Bob@Jones.com 4. Password: Bob 5. Usertype: Driver  1. Firstname: Bob 2. Lastname: Jones 3. Email: (blank) 4. Password: Bob 5. Usertype: Driver  1. Firstname: (blank) 2. Lastname: (blank) 3. Email: (blank) 4. Password: (blank) 5. Usertype: (blank)	Registration failed	<p>User is not registered and the application redirects back to homepage</p>	Pass
Post Condition	Based on the user type, user info is stored in the database					

#### Test scenario: Process Pickup Request

Test Case	Precondition	Test Step	Test Data	Expected Result	Actual Result	Pass/Fail
Example of a registered user: Email address: bob@jones.com Password: bob						
01. Check response on processing a request by clicking 'Process' button	A user must sign in as a driver and click 'Process' on a request object.	1. Sign in as a driver 2. Click 'Process' on a request object	—	Pickup request processed successfully	<p>A pick up request has been processed successfully, and driver UI updates the marker on the specific location.</p>	Pass
Post Condition	Database updates value of property "Processed" and notifies the user by rendering a different marker.					

#### Test scenario: Check Driver User Login

Test Case	Precondition	Test Step	Test Data	Expected Result	Actual Result	Pass/Fail
Example of a registered user: Email address: john@smith.com Password: john						
01. Check response on opening profile information by click 'Profile' link	A user must sign in as a driver	1. Sign in as a driver 2. Click 'Profile' in the navigation	—	Render Profile Page	<p>The application will open user profile where they can verify their name, user-type, and password.</p>	Pass
Post Condition	Based on the user type, it will show user information.					

#### Test scenario: Check Driver User Logout

Test Case	Precondition	Test Step	Test Data	Expected Result	Actual Result	Pass/Fail


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