# Test Plan

## The product under test:

The **Customers App** web application is aimed to our sales people so that they can have access to our customer's contact information. The Customer App application is a web application written using ReactJS on the frontend and Node.js in the backend.

## What is in scope:

1. Manual function testing
2. Automation of 3 API and 3 UI failing scenarios for regression

## What is out of scope:

1. Authorisation and Authentication: User can input any name in the Welcome screen
2. Data Management: every user gets the same hardcoded list of Customers
3. Performance
4. Localization: English only
5. Compatibility: Desktop Chrome + Windows only
6. Usability

## Environment:

## Windows

## Google Chrome

## Tools:

1. Postman
2. Python
3. Selenium WebDriver

## Estimates:

1. 4 days to implement Manual an Automated testing

## Assumptions:

1. How the customer company size is calculated:

Spec contains 2 requirements that I think are wrong:

* **Size**: if **# of Employees** is less than or equal 100, size is **Small**; if greater then 10 and less then or equal 1000, **Medium**; otherwise, **Big**
* And customer **size** is: **Small**, when **# of employees** is <= 10; **Medium** when it is <= 1000; **Big** otherwise.

I assumed that correct requirement should be:

* customer **size** is: **Small**, when **# of employees** is <= 10: Medium when it is >10 and <=1000; **Big** otherwise

1. Welcome message is shown on every page
2. Greeting message is shown on every page

## Test cases:

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| **TC-1** | **Welcome Screen: Layout** | |
|  | **Steps:** | **Expected results:** |
| 1. | Check the Welcome screen layout | Page title: Customers App  Header: Welcome to Customers App  The form consists of:  Label: "Please provide your name:";  A text field where the user will input his/her name;  A Submit button; |

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| **TC-2** | **Welcome Screen: Enter Name** | |
|  | **Steps:** | **Expected results:** |
| 1. | Fill the text field*: Chema del Barco* | *Chema del Barco* is shown in the text field |
| 2. | Press Submit button | Customers List Screen appears  Greeting is shown: Hi Chema del Barco. It is now "\_Current day\_" and here is our customer list. Click on each of them to view their contact details. |

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| **TC-3** | **Welcome Screen. Numbers** | |
|  | **Steps:** | **Expected results:** |
| 1. | Fill the text field*: 1234567890* | *1234567890* is shown in the text field |
| 2. | Press Submit button | Customers List Screen appears  Greeting is shown: Hi 1234567890. It is now "\_Current day\_" and here is our customer list. Click on each of them to view their contact details. |

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| **TC-4** | **Welcome Screen: Long name** | |
|  | **Steps:** | **Expected results:** |
| 1. | Fill the text field*: The quick brown fox jumps over the lazy dog The quick brown fox jumps over the lazy dog The quick 101* | *The quick brown fox jumps over the lazy dog The quick brown fox jumps over the lazy dog The quick 101* is shown in the text field |
| 2. | Press Submit button | Customers List Screen appears  Greeting is shown: Hi Fill the form The quick brown fox jumps over the lazy dog The quick brown fox jumps over the lazy dog The quick 101. It is now "\_Current day\_" and here is our customer list. Click on each of them to view their contact details. |

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| **TC-5** | **Welcome Screen: ASCII Special Characters** | |
|  | **Steps:** | **Expected results:** |
| 1. | Fill the text field*: @#$!%^&\*()\_+\_!~=.,|\/`[{]}." '<! --* | *@#$!%^&\*()\_+\_!~=.,|\/`[{]}." '<! –*  is shown in the text field |
| 2. | Press Submit button | Customers List Screen appears  Greeting is shown: Hi @#$!%^&\*()\_+\_!~=.,|\/`[{]}." '<! -- . It is now "\_Current day\_" and here is our customer list. Click on each of them to view their contact details. |

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| **TC-6** | **Welcome Screen: Non-ASCII Characters** | |
|  | **Steps:** | **Expected results:** |
| 1. | Fill the text field*: ñóǹ äŝçíì 汉语/漢語 华语/華語 Huáyǔ; 中文 Zhōngwén 漢字仮名交じり文 Lech Wałęsa æøå* | ñóǹ äŝçíì 汉语/漢語 华语/華語 Huáyǔ; 中文 Zhōngwén 漢字仮名交じり文 Lech Wałęsa æøå is shown in the text field |
| 2. | Press Submit button | Customers List Screen appears  Greeting is shown: Hi ñóǹ äŝçíì 汉语/漢語 华语/華語 Huáyǔ; 中文 Zhōngwén 漢字仮名交じり文 Lech Wałęsa æøå. It is now "\_Current day\_" and here is our customer list. Click on each of them to view their contact details. |

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| **TC-7** | **Welcome Screen: Space symbol** | |
|  | **Steps:** | **Expected results:** |
| 1. | Fill the text field*: Space* | *Space* is shown in the text field |
| 2. | Press Submit button | Customers List Screen appears  Greeting is shown: Hi ."\_Current day\_" and here is our customer list. Click on each of them to view their contact details. |

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| **TC-8** | **Welcome Screen: Alert Message** | |
|  | **Steps:** | **Expected results:** |
| 1. | Press Submit button | Alert message is presented: Please provide your name. |

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| **TC-9** | **Customer List Screen: Data** | |
|  | **Steps:** | **Expected results:** |
| 1. | Open Customer List Screen | Following table is shown:   | **Name** | **# of Employees** | **Size** | | --- | --- | --- | | [Americas Inc.](http://localhost:3000/) | 10 | Small | | [Caribian Airlnis](http://localhost:3000/) | 1000 | Medium | | [MacroSoft](http://localhost:3000/) | 540 | Medium | | [United Brands](http://localhost:3000/) | 20 | Medium | | [Bananas Corp](http://localhost:3000/) | 10000 | Big | | [XPTO.com](http://localhost:3000/) | 102 | Medium | |

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| **TC-10** | **Contacts Detail Screen: Americas Inc.** | |
|  | **Steps:** | **Expected results:** |
| 1. | From Customers List Screen click on Americas Inc. | Contacts Detail Screen is shown:  Customer Details  Name: Americas Inc.  # of Employees: 10  Size: Small  Contact: John Smith (jsmith@americasinc.com) |
| 2. | Press Back to the list button | Customers List Screen is shown |

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| **TC-11** | **Contacts Detail Screen: Caribian Airlnis** | |
|  | **Steps:** | **Expected results:** |
| 1. | From Customers List Screen click on Caribian Airlnis. | Contacts Detail Screen is shown:  Customer Details  Name: Caribian Airlnis  # of Employees: 1000  Size: Medium  Contact: Jose Martinez (martines@cair.com) |
| 2. | Press Back to the list button | Customers List Screen is shown |

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| **TC-12** | **Contacts Detail Screen: MacroSoft** | |
|  | **Steps:** | **Expected results:** |
| 1. | From Customers List Screen click on MacroSoft. | Contacts Detail Screen is shown:  Customer Details  Name: MacroSoft  # of Employees: 540  Size: Medium  Contact: Bill Paxton (bp@ms.com) |
| 2. | Press Back to the list button | Customers List Screen is shown |

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| **TC-13** | **Contacts Detail Screen: United Brands** | |
|  | **Steps:** | **Expected results:** |
| 1. | From Customers List Screen click on United Brands. | Contacts Detail Screen is shown:  Customer Details  Name: United Brands  # of Employees: 20  Size: Medium  Contact: No contact info available |
| 2. | Press Back to the list button | Customers List Screen is shown |

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| **TC-14** | **Contacts Detail Screen: Bananas Corp** | |
|  | **Steps:** | **Expected results:** |
| 1. | From Customers List Screen click on Bananas Corp. | Contacts Detail Screen is shown:  Customer Details  Name: Bananas Corp  # of Employees: 10000  Size: Big  Contact: Xavier Hernandez (xavier@bananas.com) |
| 2. | Press Back to the list button | Customers List Screen is shown |

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| **TC-15** | **Contacts Detail Screen: XPTO.com** | |
|  | **Steps:** | **Expected results:** |
| 1. | From Customers List Screen click on XPTO.com | Contacts Detail Screen is shown:  Customer Details  Name: XPTO.com  # of Employees: 102  Size: Medium  Contact: Daniel Zuck (zuckh@xpto.com) |
| 2. | Press Back to the list button | Customers List Screen is shown |

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| **TC-16** | **API. Enter name** | |
|  | **Precondition:** Open Postman |  |
|  | **Steps:** | **Expected results:** |
| 1. | Send a post request witn the following body: {"name":"Nadia Kriazheva"} | "name": "Nadia Kriazheva",  "timestamp": "Current Timestanp",  "customers": [  {  "id": 1,  "name": "Americas Inc.",  "employees": 10,  "contactInfo": {  "name": "John Smith",  "email": "jsmith@americasinc.com"  },  "size": "Small"  },  {  "id": 2,  "name": "Caribian Airlnis",  "employees": 1000,  "contactInfo": {  "name": "Jose Martinez",  "email": "martines@cair.com"  },  "size": "Medium"  },  {  "id": 3,  "name": "MacroSoft",  "employees": 540,  "contactInfo": {  "name": "Bill Paxton",  "email": "bp@ms.com"  },  "size": "Medium"  },  {  "id": 4,  "name": "United Brands",  "employees": 20,  "size": "Medium"  },  {  "id": 5,  "name": "Bananas Corp",  "employees": 10000,  "contactInfo": {  "name": "Xavier Hernandez",  "email": "xavier@bananas.com"  },  "size": "Big"  },  {  "id": 6,  "name": "XPTO.com",  "employees": 102,  "contactInfo": {  "name": "Daniel Zuck",  "email": "zuckh@xpto.com"  },  "size": "Medium"  }  ]  } |

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| **TC-17** | **API. ASCII Special Characters** | |
|  | **Precondition:** Open Postman |  |
|  | **Steps:** | **Expected results:** |
| 1. | Send a post request witn the following body:{"name":"@#$!%^&\*()\_+\_!~=.,|\/`[{]}.\" '<! --"} | Response body contains:  "name": "@#$!%^&\*()\_+\_!~=.,|\/`[{]}." '<! --", |

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| **TC-18** | **API. Numbers** | |
|  | **Precondition:** Open Postman |  |
|  | **Steps:** | **Expected results:** |
| 1. | Send a post request witn the following body:{"name":"0123456789"} | Response body contains:  "name": "1234567890" |
| **TC-19** | **API. Long name** | |
|  | **Precondition:** Open Postman |  |
|  | **Steps:** | **Expected results:** |
| 1. | Send a post request witn the following body:{"name":"Fill the form The quick brown fox jumps over the lazy dog The quick brown fox jumps over the lazy dog The quick 101"} | Response body contains:  "name": "Fill the form The quick brown fox jumps over the lazy dog The quick brown fox jumps over the lazy dog The quick 101" |

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| **TC-20** | **API. Non-ASCII Characters** | |
|  | **Precondition:** Open Postman |  |
|  | **Steps:** | **Expected results:** |
| 1. | Send a post request witn the following body:{"name":"ñóǹ äŝçíì 汉语/漢語 华语/華語 Huáyǔ; 中文 Zhōngwén 漢字仮名交じり文 Lech Wałęsa æøå"} | Response body contains:  "name": "ñóǹ äŝçíì 汉语/漢語 华语/華語 Huáyǔ; 中文 Zhōngwén 漢字仮名交じり文 Lech Wałęsa æøå" |

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| **TC-21** | **API. Space symbol** | |
|  | **Precondition:** Open Postman |  |
|  | **Steps:** | **Expected results:** |
| 1. | Send a post request witn the following body:{"name":" "} | Response body contains:  "name": " " |

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| **TC-22** | **API. Invalid Json** | |
|  | **Precondition:** Open Postman |  |
|  | **Steps:** | **Expected results:** |
| 1. | Send a post request witn the following body:{"name":Nadia Kriazheva} | Response body contains:  Status:400 Bad Request  {"message" : "Invalid Request"} |

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| **TC-23** | **API. Complex data** | |
|  | **Precondition:** Open Postman |  |
|  | **Steps:** | **Expected results:** |
| 1. | Send a post request witn the following body:{"name":[1, "a"]} | Status: 400 Bad Request  {"message" : "Invalid Data"} |

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| **TC-24** | **API. Boolean** | |
|  | **Precondition:** Open Postman |  |
|  | **Steps:** | **Expected results:** |
| 1. | Send a post request witn the following body:{"name":true} | Status: 400 Bad Request  {"message" : "Invalid Data"} |