# Homework: Software Quality Assurance Introduction

## Think Testing: Gas Station

|  |  |
| --- | --- |
| **Problem #1** | The woman put the wrong fuel |
| **Problem #2** | Problem with the battery itself |
| **Problem #3** | Problem with the starter |
| **Problem #4** | Something wrong with engine |
| **Problem #5** | Problem with alternator, so the battery is not charging |
| **Problem #6** | The woman has lost the keys |
| **Problem #7** | Problem with keys itself (battery or chip) |

## Think Testing: Tooth Brushing

|  |  |
| --- | --- |
| **Step #1** | Take the tooth paste |
| **Step #2** | Take off the cap |
| **Step #3** | Take the brush |
| **Step #4** | Put a small amount of paste on the brush |
| **Step #5** | Put the brush in you month on your left bottom side |
| **Step #6** | Start moving your hand forward and backward |
| **Step #7** | Try to clean as much as you can |
| **Step #8** | Move the brush on your right bottom side |
| **Step #9** | Repeat the same procedure |
| **Step #10** | Repeat the same procedure on your top tееth |

## Think Testing: 5 Kg Bag

|  |  |
| --- | --- |
| **Test #1** | Test the bag itself without any weight |
| **Test #2** | Put 1kg of kg capacity grocery shopping in the bag |
| **Test #3** | Increase the capacity with 1kg until it gets 5kg of grocery |
| **Test #3** | Put a little bit over 5kg of kg capacity grocery shopping in the bag |

## Login Form UX Problems

|  |  |
| --- | --- |
| **Problem #1** | Wrong domain name, it should be ‘my-wonderful-shop.com’ |
| **Problem #2** | Wrong page redirection, login should no be on ‘add-to-backet’ action |
| **Problem #3** | Email field should be before the password one |
| **Problem #4** | Buttons ate not aligned |
| **Problem #5** | ‘Log Out‘ button should not be at the login page at all |

## Weather Forecast Bug

|  |  |
| --- | --- |
| **Mistake** | The developer made the following mistake: Didn’t converted the data from the API in the correct units |
| **Bug (location)** | The bug in the code should be in the module / function, responsible for: converter function |
| **Failure (symptoms)** | When the buggy code goes in production, it fails as follows: shows the wrong temperature |

## Age Checking Machine

|  |
| --- |
| **What is the mistake (error) in the above logic:** It is not covered the case where the person is exactly 18 years old.  **How do we call the situation when we have a wrong logic in the code:** It’s a bug  **What will be the result, if we run the code, which implements the wrong logic:**  The result would be "***Invalid age. Please try again***” |

## Testing an Electric Water Kettle

### Test Scenario #1: …

|  |  |
| --- | --- |
| Test case #1 | **…** |
| Description | … |
| Steps | 1. … 2. … 3. … |
| Expected results | …  …  … |

|  |  |
| --- | --- |
| Test case #2 | **…** |
| Description | … |
| Steps | 1. … 2. … 3. … |
| Expected results | …  …  … |

### Test Scenario #2: …

|  |  |
| --- | --- |
| Test case #1 | **…** |
| Description | … |
| Steps | 1. … 2. … 3. … |
| Expected results | …  …  … |

|  |  |
| --- | --- |
| Test case #2 | **…** |
| Description | … |
| Steps | 1. … 2. … 3. … |
| Expected results | …  …  … |

…

## Testing a Coffee Machine

### Test Scenario #1: …

|  |  |
| --- | --- |
| Test case #1 | **…** |
| Description | … |
| Steps | 1. … 2. … 3. … |
| Expected results | …  …  … |

|  |  |
| --- | --- |
| Test case #2 | **…** |
| Description | … |
| Steps | 1. … 2. … 3. … |
| Expected results | …  …  … |

### Test Scenario #2: …

|  |  |
| --- | --- |
| Test case #1 | **…** |
| Description | … |
| Steps | 1. … 2. … 3. … |
| Expected results | …  …  … |

|  |  |
| --- | --- |
| Test case #2 | **…** |
| Description | … |
| Steps | 1. … 2. … 3. … |
| Expected results | …  …  … |

…