# Homework: Software Quality Assurance Introduction

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| --- | --- |
| **Problem #1** | Low battery or stolen battery |
| **Problem #2** | Missing car (she is trying to start the wrong car) |
| 3 | Starter broken |
| 4 | Timing belt blocked or missing |
| 5 | Wrong fuel |
| 6 | Fuel pump, intake issues |
| 7 | Faulty immobilisers |
| 8 | Engine failure |
| 9 | Old spark plugs |
| 10 | No AdBlue (exhaust fluid) |
| 11 | Security feature( if the door or the fuel cap or the hood or the trunk are open cannot start the car) |

## Think Testing: Gas Station

## Think Testing: Tooth Brushing

|  |  |
| --- | --- |
| **Step #1** | Open the door of the bathroom |
| **Step #2** | Get in the bathroom |
| 3 | If the light is off turn it on. If it is on leave it on. |
| 4 | Walk towards the sink. |
| 5 | Check if the toothbrush and the paste are present. If they are not call mommy to find them for you |
| 6 | If mommy is not there call daddy |
| 7 | Open the toothpaste. |
| 8 | Take the brush and point it the hairy side up |
| 9 | Put toothpaste on the hairy side of the brush so it stays on the brush. If the toothpaste starts dripping off you put too much |
| 10 | Open your mouth and drive the toothbrush (with the paste on) in your mouth |
| 11 | Touch the side of your teeth with the toothbrush and start doing several types of motions - circular, back and forward and up and down. |
| 12 | Repeat the motions all over the sides of all of your teeth, the back and the top of the teeth. |
| 13 | If your mouth is full of foam spit part of it out and continue |
| 14 | Do this for 2.5 min. |
| 15 | Then leave the toothbrush on the sink |
| 16 | Open the sink and let water run. Make sure the temperature is ok for you |
| 17 | Rinse your mouth with water until there is no paste left in your mouth |
| 18 | Wash your toothbrush and leave it on its place |
| 19 | Close the sink faucet |
| 20 | Dry yourself |
| 21 | Walk out of the bathroom |
| 22 | Make sure the light is off before closing the door of the bathroom |
| 23 | If it is morning - put on your clothes and get ready for school  If it is evening - put on your pyjama and get ready for bed. |

## Think Testing: 5 Kg Bag

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| **Test #1** | Take 1 to 4,9 kg weight. Put it in the bag and lift it by holding it by the 2 handles simultaneously.  Repeat the test several times and see if and when the bag will break.  Make notes which part of the bag will break first.  Make notes if same part breaks each time or predominantly  Make notes which part stays intact |
| **Test #2** | Take 5kg or higher. Put it in the bag. Make notes when the bag doesn’t break. |
| 3 | Use the bag as long as it is intact with little weights. Make notes how long before the bag breaks |
| 4 | Put a wet weight and see how long before the bag tears. |
| 5 | Put something hot and see on what temperature the bag burns |
| 6 | Use something acidic and see how long before the bag breaks down |
| 7 | Freeze the bag and repeat several of the test above with a frozen bag. Compare timing of the bag breaking |

## Login Form UX Problems

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| --- | --- |
| **Problem #1** | Link of log-in not in the correct place (add-to basket) instead of(log-in) |
| **Problem #2** | Password field first. Usually it should be second |
| … | Password reveal button with opposite logic |
|  | "Lost your password?" missing a linked address to the text |
|  | Log in button off alignment, |
|  | Present a log-out button in a not logged-in case. |

## Weather Forecast Bug

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| --- | --- |
| **Mistake** | The developer made the following mistake: missing a function to convert Fahrenheit to celsius degrees |
| **Bug (location)** | The bug in the code should be in the module / function, responsible for: after receiving the API data in to the converting data module processing the temperature numbers |
| **Failure (symptoms)** | When the buggy code goes in production, it fails as follows: presenting extremely hot weather. Inaccurate data and icons presented. |

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| --- |
| 1st. - there is no such age as -1  2nd - 18 is a legal age to enter a bar so : if age <= 18 print "Welcome to our bar. Enjoy!" and the door opens.  3rd - add the >= 0 age to the else condition  Code should look like this :  If age > 18: print("You are too young to visit our bar”). The door stays close:  Elif age <= 18: Print( "Welcome to our bar. Enjoy!”) the door opens.  Else (in any other case - this includes the cases zero and below ) print(“Invalid age. Please try again.”)  If we run the wrong code an 18 year old would not be able to enter the bar.  And the system would accept input as age = -39 as valid age |

## Age Checking Machine

## Testing an Electric Water Kettle

### Test Scenario #1: …

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| --- | --- |
| 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 | …  …  … |

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## Testing a Coffee Machine

### Test Scenario #1: …

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

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

### Test Scenario #2: …

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

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

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