**Homework: Software Quality Assurance Introduction**

* **Think Testing: Gas Station**

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| **Problem #1** | The woman has put a wrong fuel in the car. |
| **Problem #2** | The car has a mechanical issue |
| Problem #3 | The woman tries to start the wrong car |
| Problem #4 | The car got stolen |
| Problem #5 | The keys are missing |
| Problem #6 | There is something wrong with the woman |
| .. |  |

* **Think Testing: Tooth Brushing**

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| **Step #1** | Take the toothpaste |
| **Step #2** | Unscrew the lid |
| Step #3 | Put the lid on the table |
| Step #4 | Take the toothbrush |
| Step #5 | Put very little toothpaste on the toothbrush |
| Step #6 | Open your mouth |
| Step #7 | Put the toothbrush on your left teeth |
| Step #8 | Close your mouth |
| Step #9 | Start brushing |
| Step #10 | .. |

* **Think Testing: 5 Kg Bag**

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| **Test #1** | Put 2kg products in the bag and test if it is not tering apart |
| **Test #2** | Put 5kg products in the bag and test if it is not tering apart |
| Test #3 | Put 5kg +100gr products in the bag and test if it is tearing apart |
| Test #4 | .. |

* **Login Form UX Problems**

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| **Problem #1** | The websaite name is "My Wonderful Shop"-the website address is "your-wonderful-shop.com |
| **Problem #2** | Logen form address should not be "add-to-basket" |
| Problem #3 | The buttons are not alegned |
| Problem #4 | There should not be "Log out" button |
| Problem #5 | Password is above username |
| Problem #6 | .. |

* **Weather Forecast Bug**

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| **Mistake** | The developer made the following mistake:they did not convert the degress to Celsius |
| **Bug (location)** | The bug in the code should be in the module / function, responsible for:degree conversion |
| **Failure (symptoms)** | When the buggy code goes in production, it fails as follows:it shows wrong temperature data |

* **Age Checking Machine**

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| The mistake is not including age egual to 18.  The wrong logic in the code is called "a Bug".  it will reult in Fallure at age egual to 18. |

* **Testing an Electric Water Kettle**

**Test Scenario #1: …**

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| Test case #1 | **Boil 1 liter of water success** |
| Description | Pour 1 liter of water, start the kettle, and wait until it gets hot. |
| Steps | * Fill 1 liter of cold water in the kettle and close the boiler lid. * Plug the power base in the electrical network. * Plug the boiler into the power base. * Switch on the kettle. * Wait until the water gets hot and the kettle automatically switches off (2-3 minutes |
| Expected results | The boiling process should complete in less than 4 minutes.  The water should get hot.  The kettle should automatically power off when the water gets too hot.  The kettle lid should stay closed.  … |

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| Test case #2 | **Boil an empty kettle ->fail** |
| Description | start the ketlle without water.The ketlle should turn off automatically |
| Steps | * Pour out all the water in the kettle. * Plug the power base in the electrical network. * Plug the boiler into the power base. * Switch on the kettle. * The kittle automatically switches off. |
| Expected results | There should not be any bolling process.  The kettle should automatically power off due to missing water within o,5 to 2 seconds.  The ketlle lid should stay closed.  … |

**Test Scenario #2:Use the lid**

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| Test case #1 | **Open lid ->success** |
| Description | Press the open lid button.The lid opens |
| Steps | * Pres the open lid button * Watch the lid open * … * … |
| Expected results | The lid should open  …  … |

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| Test case #2 | **Close lid ->success** |
| Description | Press the lid wath a hand.The lid should close |
| Steps | * Press the lid with a hand. * Confirm the lid is closed |
| Expected results | The lid should close.... |

**Test Scenario #3:Use the Base**

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| Test case #1 | **Kettle on with base plugged in->success** |
| Description | Turn the kettle on while on the base and the base is plugged in. |
| Steps | * Plug the power base in the electrical network. * Plug the boilen info the power base. * Switch on the kettle. |
| Expected results | The kettle should NOT turn on |

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| Test case #2 | **Close lid ->success** |
| Description | Press the lid wath a hand.The lid should close |
| Steps | * Press the lid with a hand. * Confirm the lid is closed |
| Expected results | The lid should close.... |

* **Testing a Coffee Machine**

**Test Scenario #1:Brew a Coffee**

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| Test case #1 | **Brew a small coffee ->success** |
| Description | Start the coffee machine,put water,put ground coffee in the outlet,and brew a cup of coffee. |
| Steps | * Power on the machine. * Put ground coffee blend in the coffee outlet. * Fill the water container to its max level. * Wait untli the "hot water" indicator lights up. * Put an empty coffee cup under the coffee outlet. * Press the "brew small coffee"button. * Wail untlii the brew process finishes. |
| Expected results | The brew process should complete in less than 50 seconds.  The coffee cup should hold a hot small coffee 60ml.  The mashine should stay powered on.  The "hot watr" indicator light could be on off(both states are corect).  The machine should have enough water in its water conteiner (it should not beer) |
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| Test case #2 | **Brew a coffee with no water ->fail** |
| Description | Start the coffee mashine, empty the water conteiner,try to brew a cup of coffee,expect the coffee mashine to start brrping to indicate that the water is not enough. |
| Steps | * … * … * … |
| Expected results | …  …  … |
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| Test case #2 | **Brew coffee long coffee->success** |
| Description | Start the coffee mashine, empty the water conteiner,try to brew a cup of coffee,expect the coffee mashine to start brrping to indicate that the water is not enough. |
| Steps | * Power on the machine. * Put ground coffee blend in the coffee outlet. * Fill the water container to its max level. * Wait untli the "hot water" indicator lights up. * Put an empty coffee cup under the coffee outlet. * Press the "brew small coffee"button. * Wail untlii the brew process finishes. |
| Expected results | The brew process should complete in less than 60 seconds.  The coffee cup should hold a hot small coffee 120ml.  The mashine should stay powered on.  The "hot watr" indicator light could be on off(both states are corect).  The machine should have enough water in its water conteiner (it should not beer) |

**Test Scenario #2:Mashine On/Of**

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| Test case #1 | **…** |
| Description | … |
| Steps | * … * … * … |
| Expected results | …  …  … |

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| Test case #2 | **…** |
| Description | … |
| Steps | * … * … * … |
| Expected results | …  …  … |

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