# Test Design Techniques

# Homework

## Valid vs. Invalid Values

* Imagine you are a security guard at the airport. You have to define whether the hand luggage is allowed or not. Sort out the valid and invalid content or characteristic of the luggage by following the British Airline restrictions. Extra baggage is not allowed.

\*You could check this [url](http://www.britishairways.com/en-gb/information/baggage-essentials/hand-baggage-allowances) for extra information about the restrictions. Check out the Packing restrictions at the bottom of the page.

VALID

INVALID

Wet wipes

Small scissors

Cough syrup 120ml

24kg bag

Umbrela

23\*40\*25 sized cabin bag

150 ml Perfume

23\*30\*25 sized personal bag

Thermometer with mercury

Laptop

Pepper spray

Tennis racket

## Test Design Techniques

* Below is the diagram of test design techniques – fill in the names of the different techniques and match them with a sentence form the box to the left. (See the example)

**Testing**

**(2)**

**(7)**

**(5)**

**(6)**

**(8)**

**(3)**

**(4)**

**(1)**

**(10)**

**(9)**

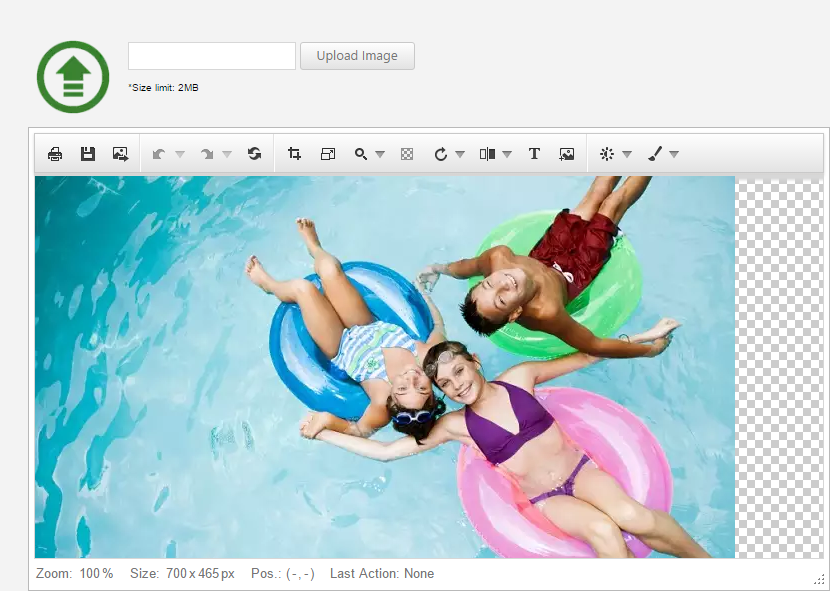
1. ~~Tests are based on people's skills, knowledge, intuition and experience~~ – **Experience-based**
2. ~~One of the types is Walkthrough~~ - **Review**
3. ~~Also called specification-based~~ - **Black-box**
4. ~~Structure-based techniques~~ – **Static, Dynamic**
5. ~~Involve running (executing)~~ - **White-box**
6. ~~Analyzing software “at rest”~~ - **Static Analysis**
7. ~~Tests are derived systematically from what is known about the defect~~ - **Defect-based**
8. ~~What the system does?~~ – **Functional**
9. ~~How the system does what it does?~~ – **Non-functional**
10. ~~Do not involve running (executing)~~ - **Review**
11. Static – **k,d**
12. Dynamic - **d**
13. Review – **b, j**
14. Static Analysis - **f**
15. Black-box - **c**
16. White-box - **e**
17. Experience-based - **a**
18. Defect-based - **g**
19. Functional - **h**
20. Non-functional - **i**

* **1. Static - k**
* **2. Dynamic**
* **3.\_\_\_\_\_\_\_\_\_\_\_**
* **4.\_\_\_\_\_\_\_\_\_\_\_**
* **5.\_\_\_\_\_\_\_\_\_\_\_**
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* **11.\_\_\_\_\_\_\_\_\_\_**

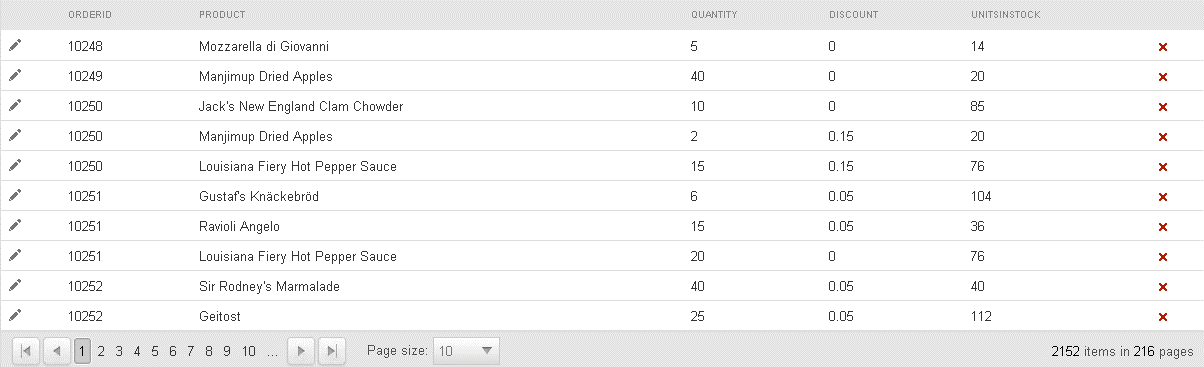
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## Boundary Value Analysis, Equivalence Partitioning & Use Case

* Go to <http://demos.telerik.com/aspnet-ajax/imageeditor/examples/imageupload/defaultcs.aspx?product=asyncupload>



* Go to <http://demos.telerik.com/aspnet-ajax/inputmanager/functionality/validation/defaultcs.aspx>



1. Think of appropriate test cases to test the controls and write them down in a table
2. If you find any bugs, please feel free to report them in a MS Word document

|  |  |  |  |
| --- | --- | --- | --- |
| Test Case № | Description | Steps | Expected Result |
| 1 | Upload image with valid size | 1. Go to <http://demos.telerik.com/aspnet-ajax/imageeditor/examples/imageupload/defaultcs.aspx?product=asyncupload> 2. Click upload image 3. Upload an image with size under 2 MB (1.9MB). | 1. File Upload via AJAX Page is loaded. 2. Pop up for choosing a file opens. 3. The image has loaded in the Image Editor. |
| 2 | Upload image with invalid size | 1. Go to <http://demos.telerik.com/aspnet-ajax/imageeditor/examples/imageupload/defaultcs.aspx?product=asyncupload> 2. Click upload image 3. Upload an image with size more than 2 MB (2.1MB). | 1. File Upload via AJAX Page is loaded. 2. Pop up for choosing a file opens. 3. The image has not loaded in the Image Editor and error message is shown. |
| 3 | Verify that print button opens window with printing options | 1. Go to <http://demos.telerik.com/aspnet-ajax/imageeditor/examples/imageupload/defaultcs.aspx?product=asyncupload> 2. Click upload image 3. Upload an image with size under 2 MB (1.9MB). 4. Click Print Image button | 1. File Upload via AJAX Page is loaded. 2. Pop up for choosing a file opens. 3. The image has loaded in the Image Editor. 4. New window with printing options shows. |
|  |  |  |  |

* Download the project MonopolyGame.zip. Run the project following this steps:

1. Unzip the project
2. Run the solution
3. Run the Web Application

Navigating through the tabs you will find your tasks. Make an archive with your solutions.