

Test Techniques: Decision Table testing



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AGENDA

- Introduction to Decision Table Testing
- Sample

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Test Techniques: Decision Table testing

Decision table testing is a structured approach to software testing that involves creating a table of all possible combinations of inputs and corresponding outputs.

The basic steps for creating a decision table include identifying conditions, determining possible values, identifying actions or outputs, documenting the information in a table format, and testing the system using the inputs defined in the table.

Test Techniques: Decision Table testing

Decision table testing can help to ensure that all possible scenarios are tested, identify any missing or redundant conditions or inputs, and prioritize test cases based on their importance and impact. However, it may be time-consuming for systems with a large number of inputs and may not capture all possible scenarios.

Test Techniques: Decision Table testing

Let's practice with an example.

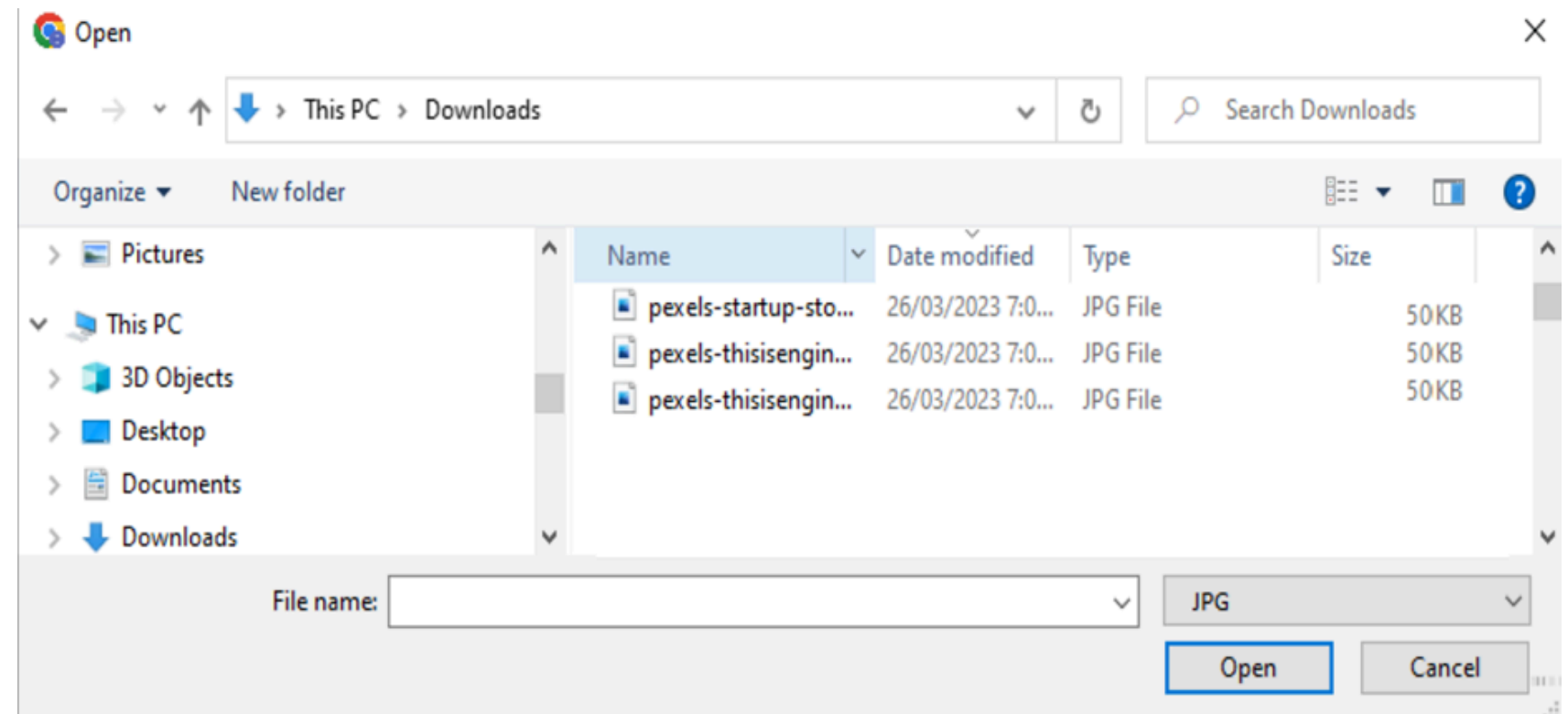
There is a dialogue box that will ask a user to upload a photo with the following conditions:

- The file must be in the .jpg format.
- The file size must be less than 50kb.
- The image resolution must be 120Mpx.

If any conditions fail, the system will display an error.

If all conditions are ok, the photo will be uploaded successfully.

Let's create the table.



Test Techniques: Decision Table testing

In order to find the number of all possible conditions, tester uses 2^n formula where n denotes the number of inputs and following table.

Inputs: Size , Format and resolution.

In this case we will Create:

$$2^3 = 8$$

Format	Size	Resolution

Test Techniques: Decision Table testing

In order to find the number of all possible conditions, tester uses 2^n formula where n denotes the number of inputs and following table.

Inputs: Size , Format and resolution.
In this case we will Create:

8 possible combinations.

Format	Size	Resolution
JPG	< 32 kb	120Mpx
JPG	< 32 kb	Not 120Mpx
JPG	>= 32 kb	120Mpx
JPG	>= 32 kb	Not 120Mpx
Not.JPG	< 32 kb	120Mpx
Not.JPG	< 32 kb	Not 120Mpx
Not.JPG	>= 32 kb	120Mpx
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Q&A