**DECISION TABLE TESTING**

This testing is done for complicated logical problems, such as complex business rules and decision-making logic in software applications. It is a technique of black box testing, in which we are least concerned about the software's functionality. Depending on the set rules, the given actions or inputs that will result in the desired outcome or output will matter the most.

Decision table testing plays a major role in different scenarios like successful login in any given website as shown in figure 1. Other logical operators like AND and OR will play a major role here in deciding the outcome depending on the nine rules, where the action will be YES only if both the conditions of email and password are valid.



Figure 1. Decision table testing

In rule 1, when an email and password is empty, authorization is unsuccessful, that is the action is NO.

In rule 2, when an email is empty and the password is invalid, authorization is unsuccessful, that is the action is NO.

In rule 3, when an email is empty and the password is valid, authorization is unsuccessful, that is the action is NO.

In rule 4, when an email is invalid and the password is empty, authorization is unsuccessful, that is the action is NO.

In rule 5, when an email is invalid and the password is invalid, authorization is unsuccessful, that is the action is NO.

In rule 6, when an email is empty and the password is valid, authorization is unsuccessful, that is the action is NO.

In rule 7, when an email is valid and the password is empty, authorization is unsuccessful, that is the action is NO.

In rule 8, when an email is valid and the password is invalid, authorization is unsuccessful, that is the action is NO.

In rule 9, when an email is valid and the password is valid, authorization is unsuccessful, that is the action is YES.

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