

CMPE 287 – Software Quality Assurance and Testing

In-class assignment #1

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Q: Creation of decision table for Google Email's message sending function

Answer:

Here, each condition generally has two possible outcomes either TRUE (T) or FALSE (F).

Total number of rules = $2^{\text{no. of conditions}}$.

Here, for the Google Email's message sending function, we can have 4 conditions such as To field, CC/BCC field, Subject, and Body.

To field or Sender Address: Tells whether the recipient's Gmail account is specified or not.

CC/BCC field: Tells whether the recipient's Gmail account is specified or not to whom the copy should be sent.

Subject: Tells whether the subject is specified or not.

Body: Tells whether the message body is specified or not.

So, the number of rules = $2^4 = 16$.

The decision table can have Conditions, Rules, Actions, and Entries. It is as follows.

Conditions	Rules															
	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15	R16
To field	F	F	F	F	F	F	F	F	T	T	T	T	T	T	T	T
Subject	F	F	F	F	T	T	T	T	F	F	F	F	T	T	T	T
CC/BCC	F	F	T	T	F	F	T	T	F	F	T	T	F	F	T	T
Body	F	T	F	T	F	T	F	T	F	T	F	T	F	T	F	T
Actions	Entries															
Send Message					X	X	X	X	X	X	X	X	X	X	X	X
Error Message	X	X	X	X												

Actions:

Send Message: Tells only if the email is sent successfully.

Error Message: Tells only if the error is received.