**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^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.