

11.2 White Box Testing

11.2.1.1

Login Control Flow

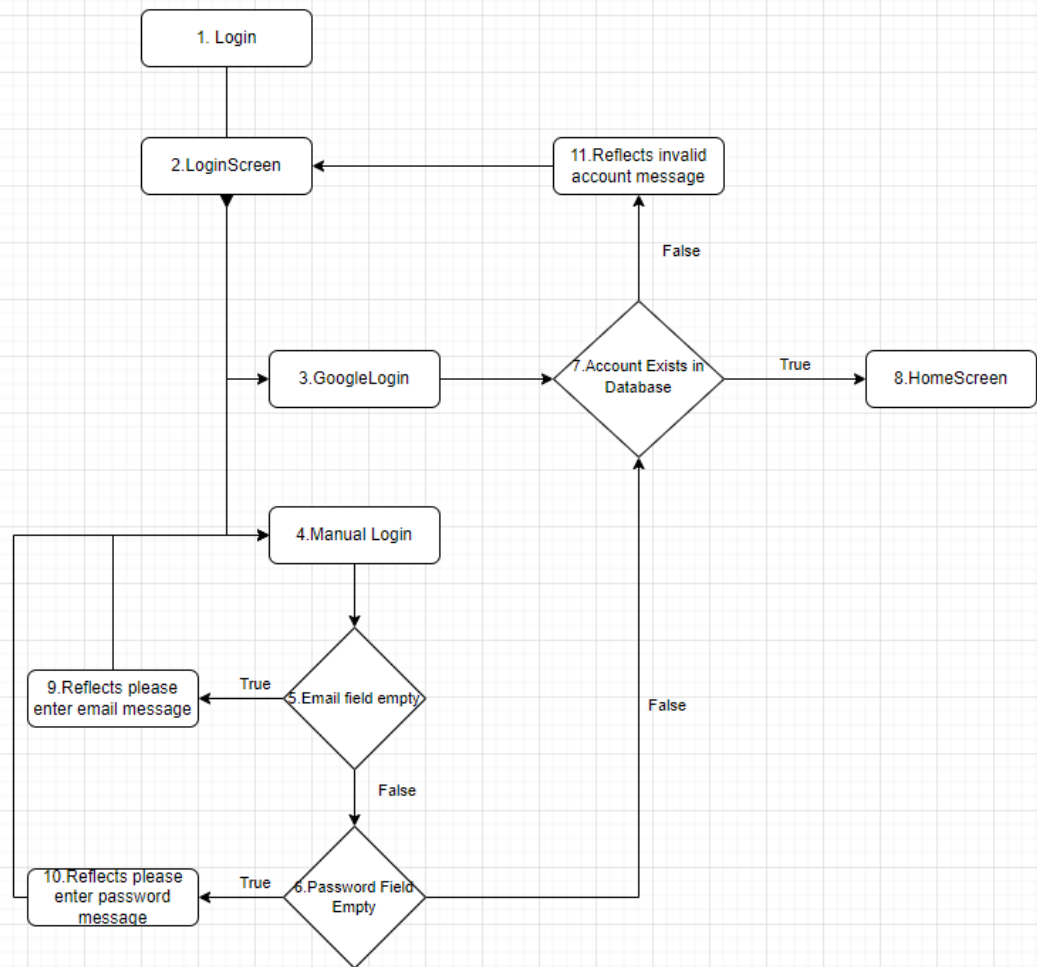


Figure 10: Control Flow Graph for Login

11.2.1.2 Basis Paths

- {1,2,3,7,8}
- {1,2,4,5,6,7,8}
- {1,2,3,11,2}
- {1,2,4,5,9,4}
- {1,2,4,5,6,10,4}
- {1,2,4,5,6,7,11,2}

11.2.1.3 Test Cases

Basis path (a):

The successful login process for a google account. This happens when the user tries to login with a google account that has been registered before and is in our database

Basis path (b):

The successful login process for manual login. This happens when the user ensures that all fields are filled and the account has been registered before and is in our database. The user must also ensure that he enters the correct email and password

Basis path (c):

The failed login process for a google account. This happens when the user tries to login with a google account that has not been registered before and is not in our database

Basis path (d):

The failed login process for manual login. This happens when the user does not fill up the email field and is prompted with an alert to fill up the email field and try again

Basis path (e):

The failed login process for manual login. This happens when the user does not fill up the password field and is prompted with an alert to fill up the password field and try again.

Basis path (f):

The failed login process for manual login. This happens when the user either tries to login with an account that is not registered before and hence not in our database. Another possible failure is that the user has mistyped the username and password pair and is thus not able to log in.