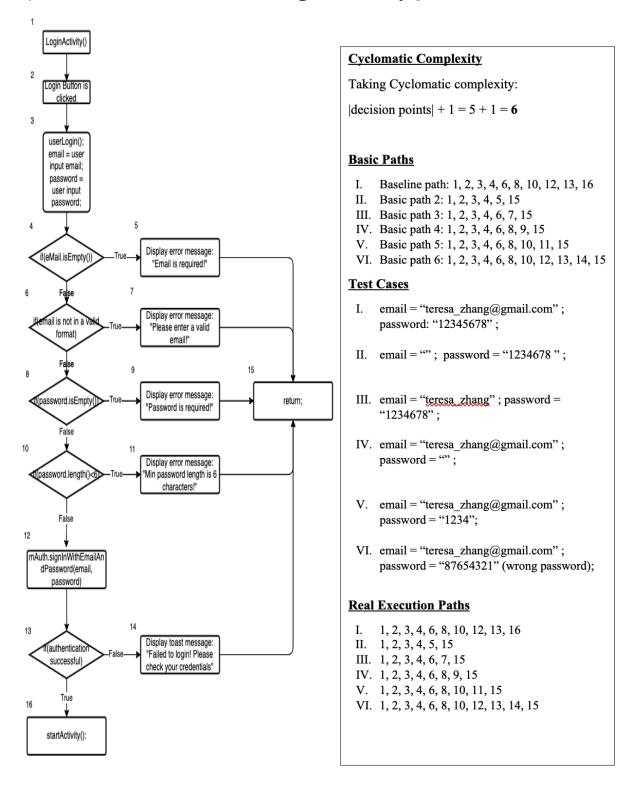
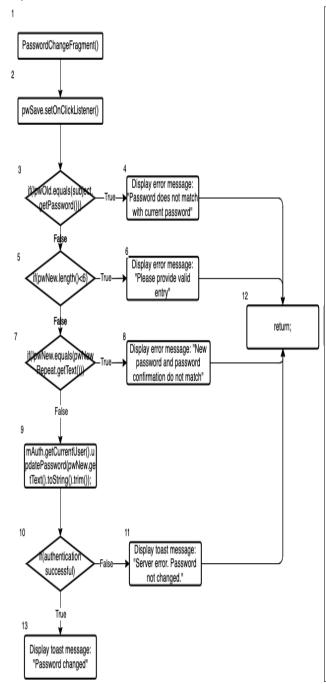
1) Control Flow Test for LoginActivity()



2) Control Flow Test for PasswordChangeFragment()



Cyclomatic Complexity

Taking Cyclomatic complexity:

|decision points| + 1 = 4 + 1 = 5

Basic Paths

- I. Baseline path: 1, 2, 3, 5, 7, 9, 10, 13
- II. Basic path 2: 1, 2, 3, 4, 12
- III. Basic path 3: 1, 2, 3, 5, 6, 12
- IV. Basic path 4: 1, 2, 3, 5, 7, 8, 12
- V. Basic path 5: 1, 2, 3, 5, 7, 9, 10, 11, 12

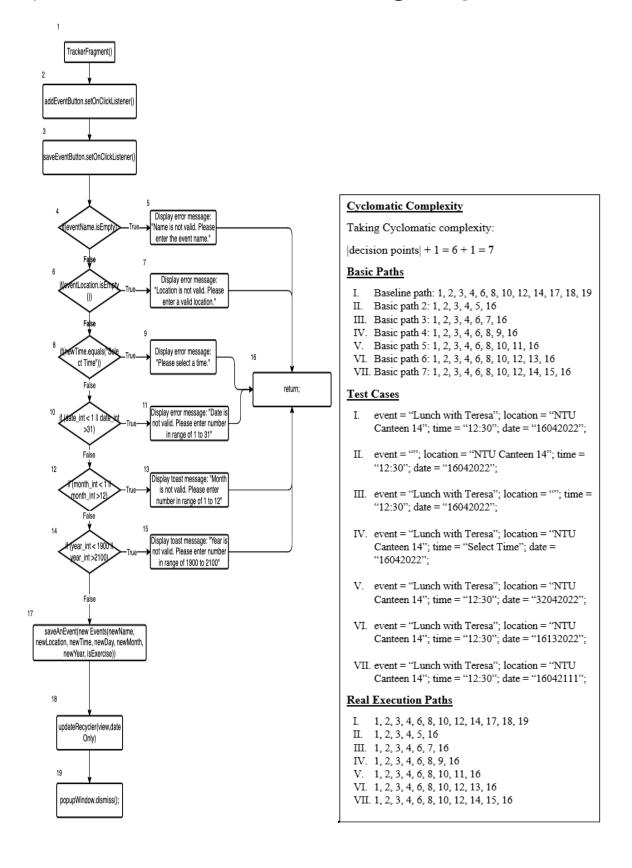
Test Cases

- password: "12345678"; new password: "246810"; confirm password: "246810"
- II. password: "87654321" (wrong password); new password: "246810"; confirm password: "246810"
- III. password: "12345678"; new password: "2468"; confirm password: "2468"
- IV. password: "12345678"; new password: "246810"; confirm password: "246811"
- V. password: "12345678"; new password: "246810"; confirm password: "246810"; No Internet;

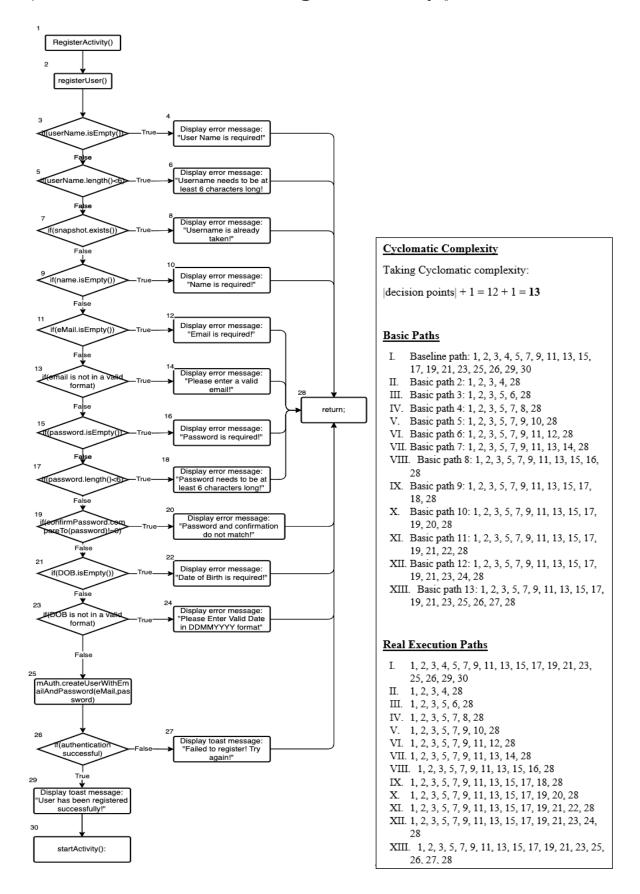
Real Execution Paths

- I. 1, 2, 3, 5, 7, 9, 10, 13
- II. 1, 2, 3, 4, 12
- III. 1, 2, 3, 5, 6, 12
- IV. 1, 2, 3, 5, 7, 8, 12
- V. 1, 2, 3, 5, 7, 9, 10, 11, 12

3) Control Flow Test for TrackerFragment()



4) Control Flow Test for RegisterActivity()



Test Cases

- I. username = "Healthy123"; name = "Teresa"; email = "teresa_zhang@gmail.com"; password = "12345678"; confirm password = "12345678"; DOB = "19122001";
- II. username = ""; name = "Teresa"; email = "teresa_zhang@gmail.com"; password = "12345678"; confirm password = "12345678"; DOB = "19122001";
- III. username = "123"; name = "Teresa"; email = "teresa_zhang@gmail.com"; password = "12345678"; confirm password = "12345678"; DOB = "19122001";
- IV. username = "Healthy" (taken); name = "Teresa"; email = "teresa_zhang@gmail.com"; password = "12345678"; confirm password = "12345678"; DOB = "19122001";
- V. username = "Healthy123"; name = ""; email = "teresa_zhang@gmail.com"; password = "12345678"; confirm password = "12345678"; DOB = "19122001";
- VI. username = "Healthy123"; name = "Teresa"; email = ""; password = "12345678"; confirm password = "12345678"; DOB = "19122001";
- VII. username = "Healthy123"; name = "Teresa"; email = "teresa_zhang"; password = "12345678"; confirm password = "12345678"; DOB = "19122001";
- VIII.username = "Healthy123"; name = "Teresa"; email = "teresa_zhang@gmail.com"; password = ""; confirm password = "12345678"; DOB = "19122001";
- IX. username = "Healthy123"; name = "Teresa"; email = "teresa_zhang@gmail.com"; password = "1234"; confirm password = "1234"; DOB = "19122001";
- X. username = "Healthy123"; name = "Teresa"; email = "teresa_zhang@gmail.com"; password = "12345678"; confirm password = "12349876"; DOB = "19122001";
- XI. username = "Healthy123"; name = "Teresa"; email = "teresa_zhang@gmail.com"; password = "12345678"; confirm password = "12345678"; DOB = "";
- XII. username = "Healthy123"; name = "Teresa"; email = "teresa_zhang@gmail.com"; password = "12345678"; confirm password = "12345678"; DOB = "19/12/2001";
- XIII.username = "Healthy123"; name = "Teresa"; email = "teresa_zhang@gmail.com"; password = "12345678"; confirm password = "12345678"; DOB = "19122001"; No Internet;