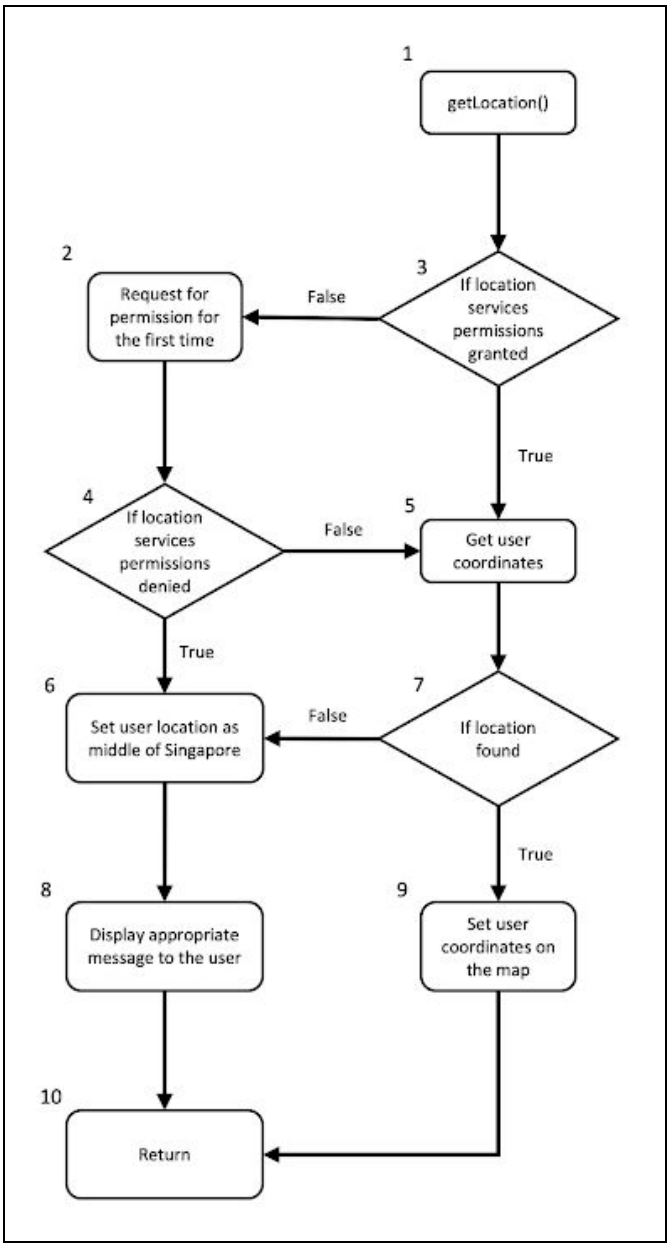
Control Flow Test for getLocation()



Cyclomatic Complexity

CC = 12 - 10 + 2 = 4
CC = 3 + 1 = 4

Basis Paths

I. 1, 3, 5, 7, 9, 10
II. 1, 3, 2, 4, 5, 7, 9, 10
III. 1, 3, 5, 7, 6, 8, 10
IV. 1, 3, 2, 4, 6, 8, 10

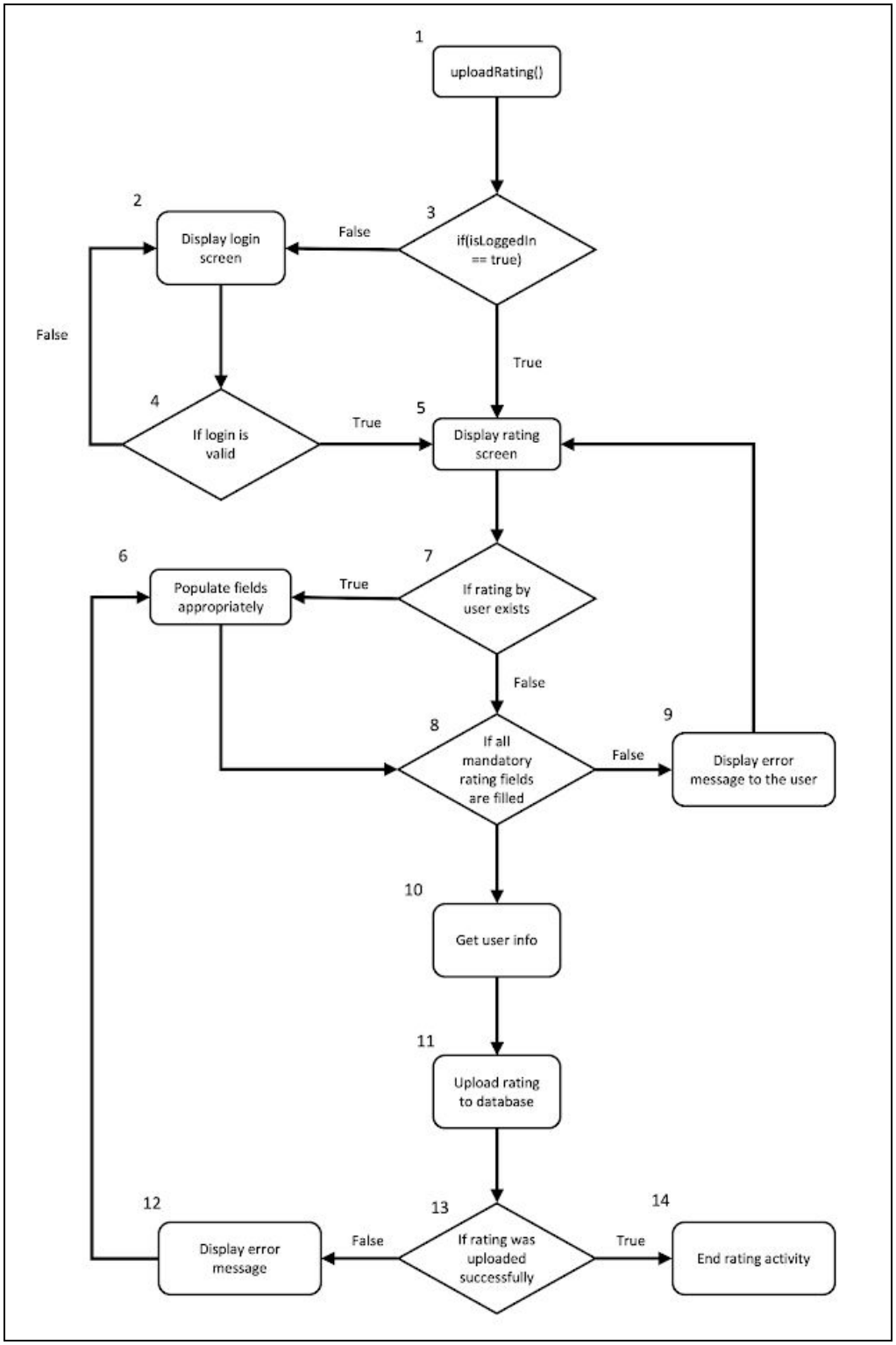
Test Cases

I. Location services permissions granted
II. Location services permissions requested and granted
III. Set phone location services to GPS mode where fetching of location takes a longer time on first app launch
IV. Location services permissions requested and denied

Real Execution Paths

I. 1, 3, 5, 7, 9, 10
II. 1, 3, 2, 4, 5, 7, 9, 10
III. 1, 3, 5, 7, 6, 8, 10
IV. 1, 3, 2, 4, 6, 8, 10

Control Flow Test for uploadRating()



Cyclomatic Complexity

CC = 18 - 14 + 2 = 6
CC = 5 + 1 = 6

Basis Paths

I. 1, 3, 5, 7, 8, 10, 11, 13, 14
II. 1, 3, 2, 4, 5, 7, 8, 10, 11, 13, 14
III. 1, 3, 5, 7, 6, 8, 10, 11, 13, 14
IV. 1, 3, 5, 7, 8, 9, 5, 7, 8, 10, 11, 13, 14
V. 1, 3, 5, 7, 8, 10, 11, 13, 12, 6, 8, 10, 11, 13, 14
VI. 1, 3, 2, 4, 2, 4, 5, 7, 8, 10, 11, 13, 14

Test Cases

I. User is logged in and no existing rating by user for that hawker centre is found
II. User is not logged in, logs in successfully and no existing rating by user for that hawker centre is found
III. User is logged in and there is an existing rating by user for that hawker centre is found
IV. User is logged in, there is no existing rating by user for that hawker centre is found and user submits an incomplete rating form
V. User is logged in, there is no existing rating by user for that hawker centre is found, user submits an incomplete rating form, upload of rating fails due to an unknown error and user has to try again
VI. User is not logged in, logs in unsuccessfully the first time, followed by a successful login and no existing rating by user for that hawker centre is found

Real Execution Paths

I. 1, 3, 5, 7, 8, 10, 11, 13, 14
II. 1, 3, 2, 4, 5, 7, 8, 10, 11, 13, 14
III. 1, 3, 5, 7, 6, 8, 10, 11, 13, 14
IV. 1, 3, 5, 7, 8, 9, 5, 7, 8, 10, 11, 13, 14
V. 1, 3, 5, 7, 8, 10, 11, 13, 12, 6, 8, 10, 11, 13, 14
VI. 1, 3, 2, 4, 2, 4, 5, 7, 8, 10, 11, 13, 14