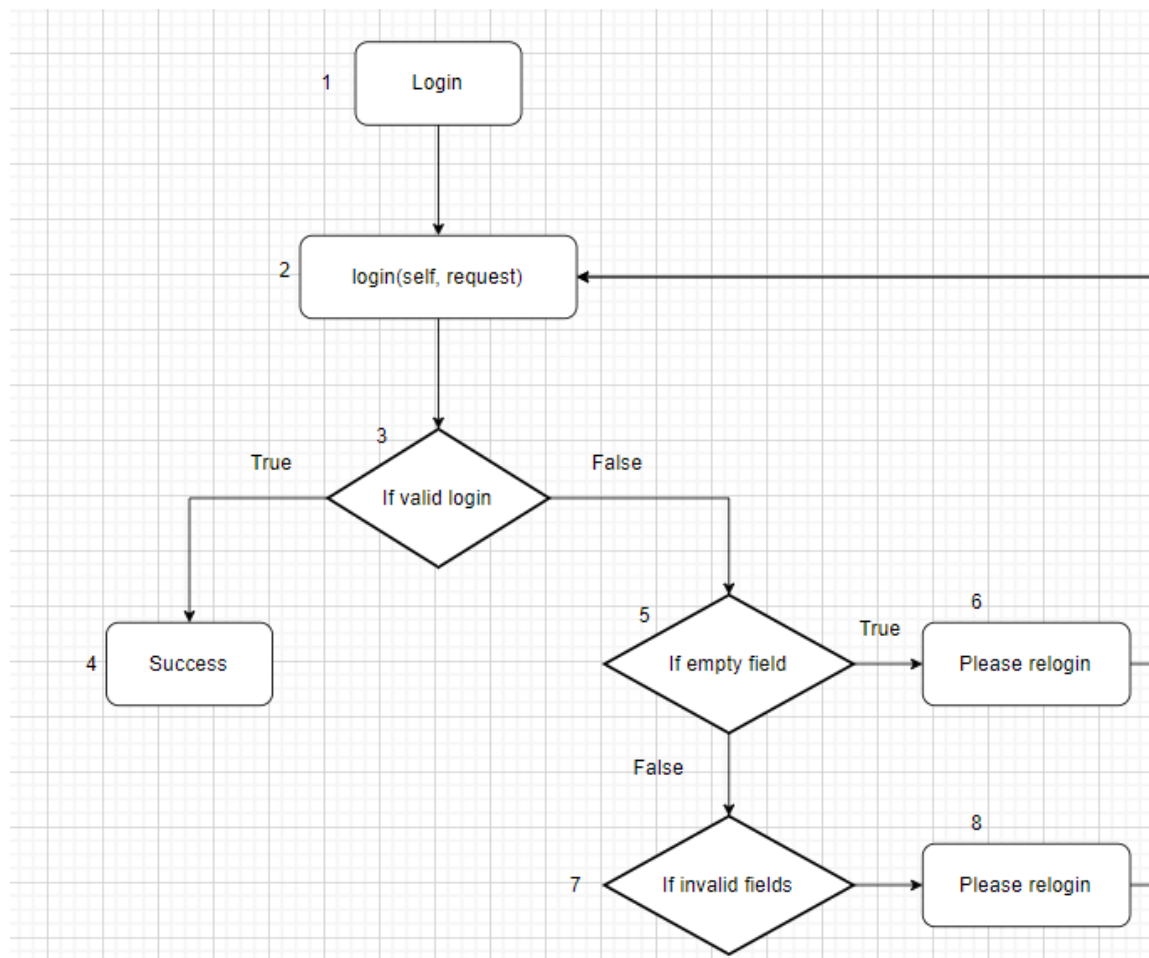


Control Flow Test for Login



Cyclomatic Complexity

Taking Cyclomatic complexity: $|\text{decision points}| + 1 = 3 + 1 = 4$

Basic Paths

- Baseline path: 1, 2, 3, 4
- Basic path 2: 1, 2, 3, 5, 7, 8, 2, 3, 4
- Basic path 3: 1, 2, 3, 5, 6, 2, 3, 4

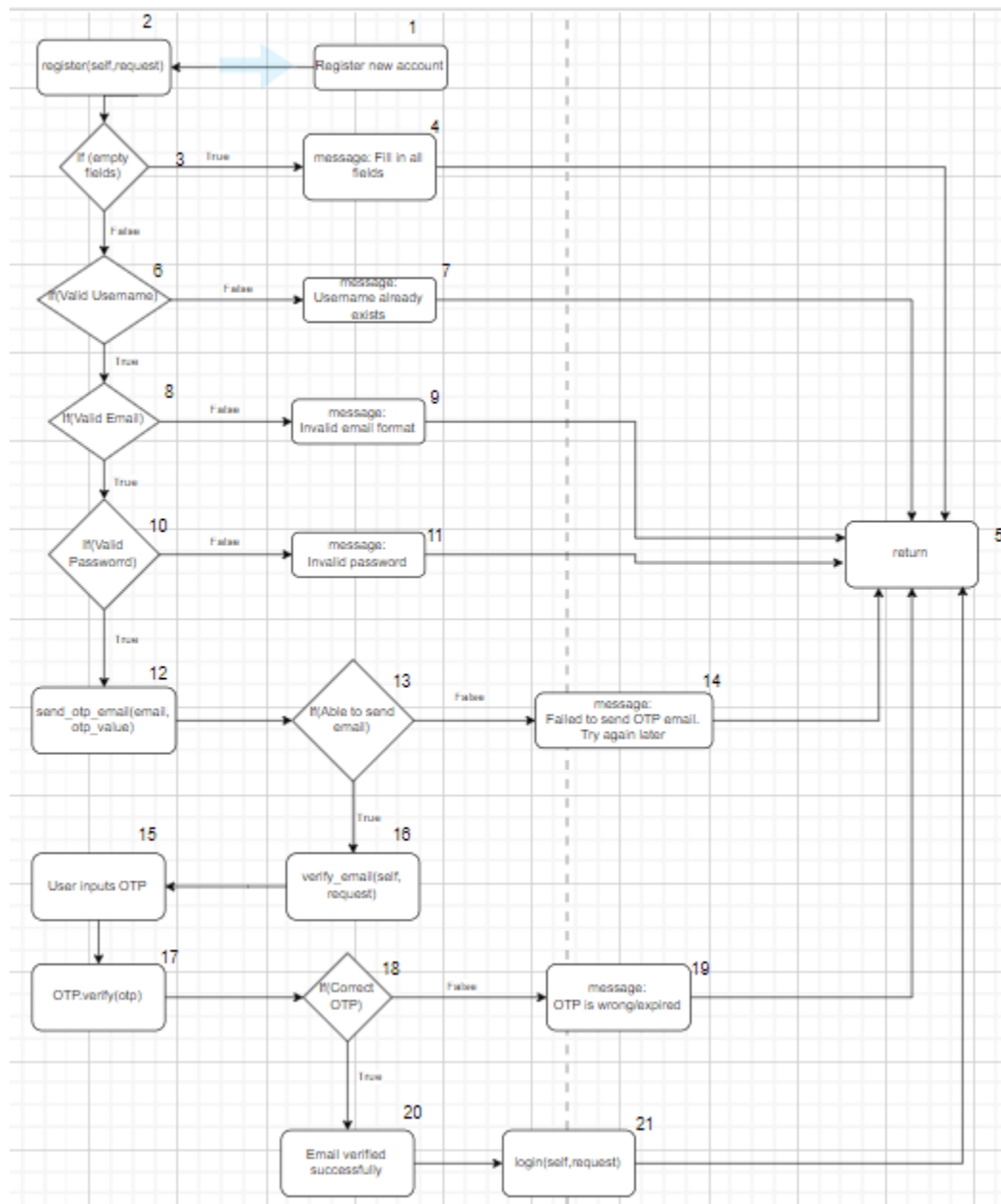
Test Cases

- Enter nothing then enter correct username and password;
- Enter correct username and password;

Real Execution Paths

- 1, 2, 3, 5, 6, 2, 3, 4
- 1, 2, 3, 4

Control Flow Test for Register



Cyclomatic Complexity

Taking Cyclomatic complexity: $|\text{decision points}| + 1 = 6 + 1 = 7$

Basic Paths

- Baseline path: 1, 2, 3, 6, 8, 10, 12, 13, 16, 15, 17, 18, 20, 21, 5
- Basic path 2: 1, 2, 3, 6, 8, 10, 12, 13, 14, 5
- Basic path 3: 1, 2, 3, 6, 8, 10, 12, 13, 16, 15, 17, 18, 19, 5

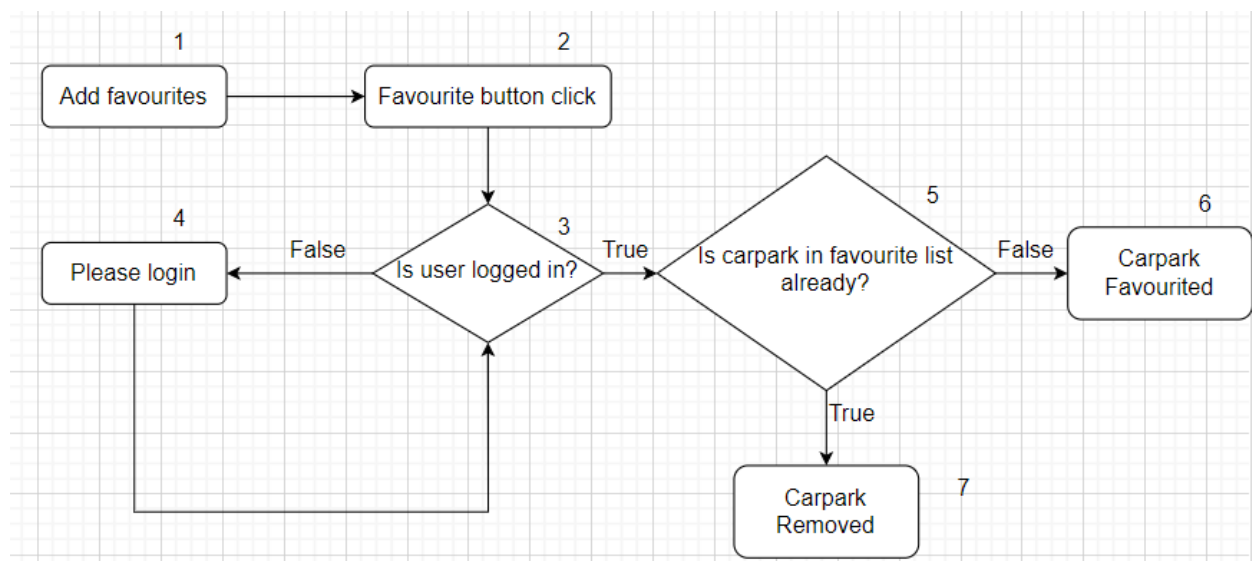
Test Cases

- Correctly key in username, email, password and successfully verify with correct OTP;
- Correctly key in username, email, password and fail to verify;

Real Execution Paths

- 1, 2, 3, 6, 8, 10, 12, 13, 16, 15, 17, 18, 20, 21, 5
- 1, 2, 3, 6, 8, 10, 12, 13, 16, 15, 17, 18, 19, 5

Control Flow Test for AddFavourite



Cyclomatic Complexity

Taking Cyclomatic complexity: $|\text{decision points}| + 1 = 2 + 1 = 3$

Basic Paths

- Baseline path: 1, 2, 3, 5, 6
- Basic path 2: 1, 2, 3, 5, 7
- Basic path 3: 1, 2, 3, 4, 3, 5, 6

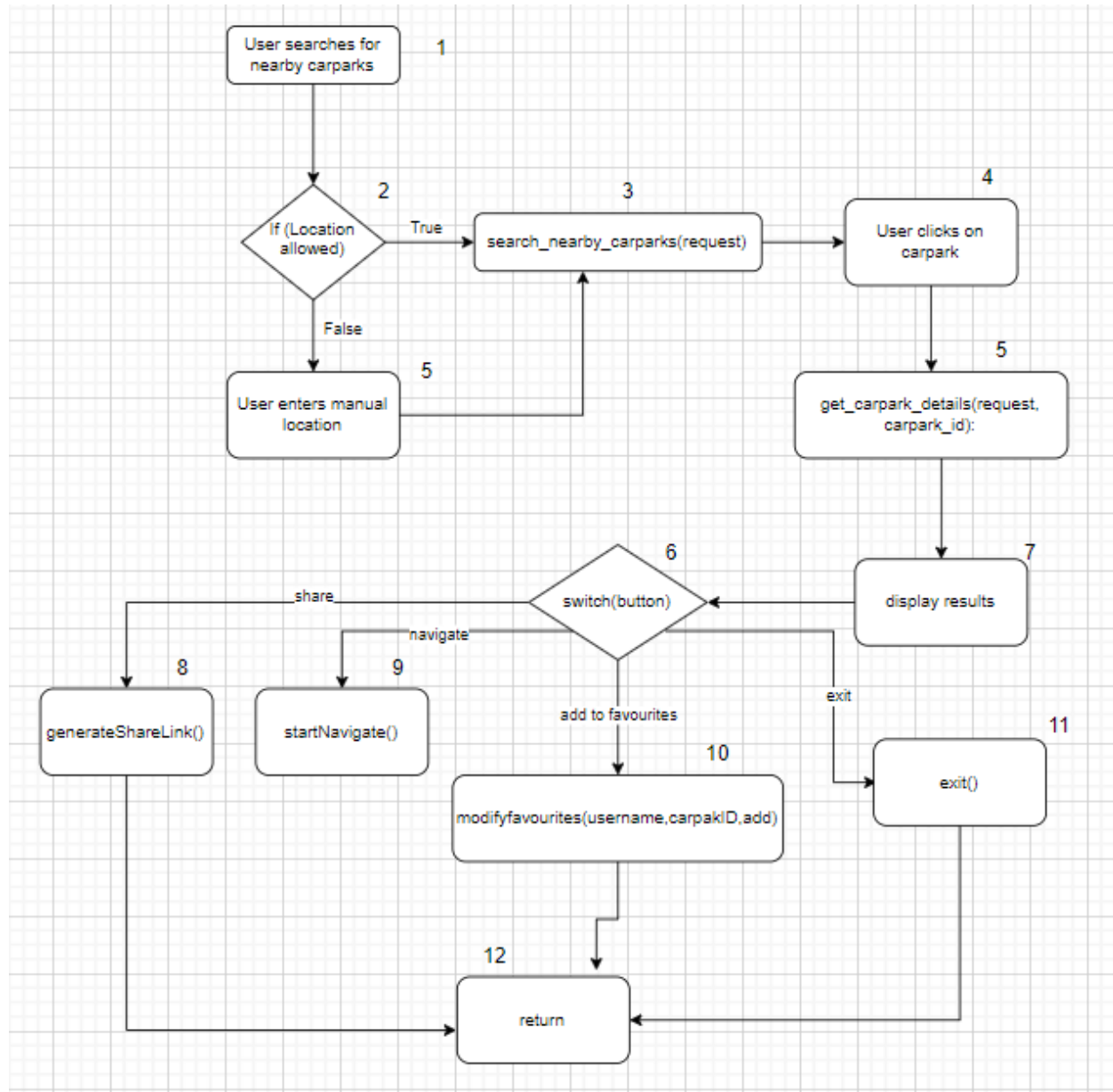
Test Cases

- Click "Kranji" as favourite and is logged in and not in favourite list;
- Click "Yishun" as favourite and is not logged in and is in favourite list;

Real Execution Paths

- 1, 2, 3, 5, 6
- 1, 2, 3, 4, 3, 5, 6

Control Flow Test for Search



Cyclomatic Complexity

Taking Cyclomatic complexity: $|\text{decision points}| + 1 = 2 + 1 = 3$

Basic Paths

- Baseline path: 1, 2, 5, 3, 4, 5, 7, 6, 10, 12
- Basic path 2: 1, 2, 5, 3, 4, 5, 7, 6, 9
- Basic path 3: 1, 2, 5, 3, 4, 5, 7, 6, 8, 12

Test Cases

- User turns on location and chooses navigate;
- User types "Kranji" and press enter and chooses generate share link;

Real Execution Paths

- 1, 2, 3, 4, 5, 7, 6, 9
- 1, 2, 5, 3, 4, 5, 7, 6, 8