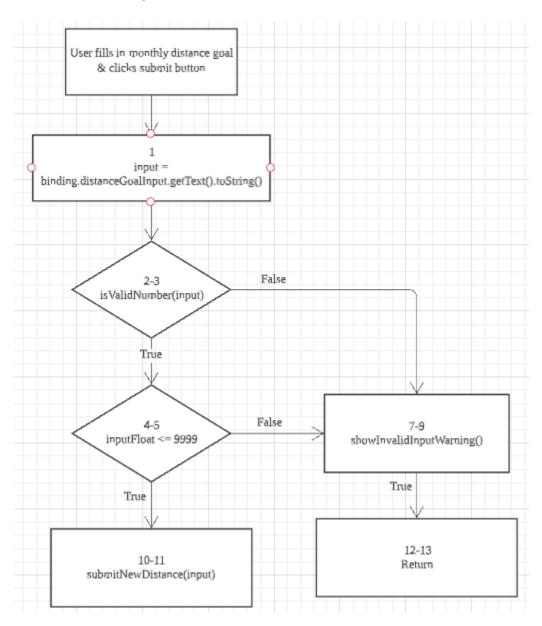
Control Flow Test for Update Goals Activity ()

Update Distance Goal

Code

```
public void onClick(View view) {
1
                   String input = binding.distanceGoalInput.getText().toString();
2
                   boolean valid = isValidDistance(input);
8
                   if (!valid) {
9
                   showInvalidInputWarning();
10
                   } else {
11
                   submitNewDistance(input);
12
             }
13
            return
             }
      }
      private boolean isValidDistance(String input) {
3
           if (isValidNumber(input)) {
4
              float inputFloat = Float.parseFloat(input);
5
              if (inputFloat <= 9999) return true;
6
7
           return false;
      }
```

Control Flow Graph



Cyclomatic Complexity

Taking Cyclomatic complexity: |decision points| + 1 = 2 + 1 = 3

Test Cases

- I. User fills in valid number and distance
- II. User fills in valid number and invalid distance
- III. User fills in invalid number and distance

Basis Paths

- I. Path 1 (Baseline): 1, 2-3, 4-5, 10-11
- II. Path 2: 1, 2-3, 4-5, 7-9, 12-13 (User fills in valid number and invalid distance)
- III. Path 3: 1, 2-3, 7-9, 12-13 (User fills in invalid number and distance)

Test Results

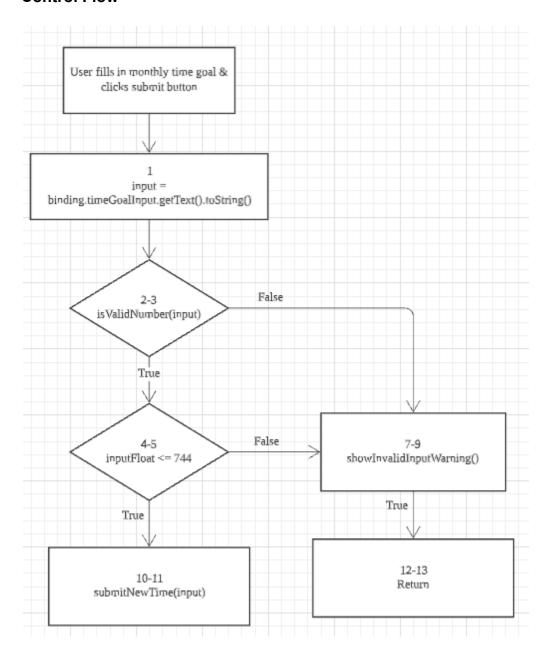
Path	Result
1	Pass
2	Pass
3	Pass

Update Time Goal

Code

```
public void onClick(View view) {
1
                   String input = binding.timeGoalInput.getText().toString();
2
                   boolean valid = isValidDistance(input);
                   if (!valid) {
8
9
                   showInvalidInputWarning();
10
                   } else {
11
                   submitNewTime(input);
12
13
            return
      }
      private boolean isValidTime(String input) {
3
           if (isValidNumber(input)) {
4
              float inputFloat = Float.parseFloat(input);
5
              if (inputFloat <= 744) return true;
6
7
           return false;
      }
```

Control Flow



Cyclomatic Complexity

Taking Cyclomatic complexity: |decision points| + 1 = 2 + 1 = 3

Test Cases

- IV. User fills in valid number and time
- V. User fills in valid number and invalid time
- VI. User fills in invalid number and time

Basis Paths

IV. Path 1 (Baseline): 1, 2-3, 4-5, 10-11

V. Path 2: 1, 2-3, 4-5, 7-9, 12-13 (User fills in valid number and invalid time)

VI. Path 3: 1, 2-3, 7-9, 12-13 (User fills in invalid number and time)

Test Results

Path	Result
1	Pass
2	Pass
3	Pass