Estimation. Practice creating test documentation

Assignment

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For the same app [Airport Distance Map](#) : with the requirements I wrote as a guidance:

REQ1: "Users should be able to see the total distance between two airports, placing the markers according to departure and destination."

REQ2: "Users should be able to select an airport as a departure point, and another airport for destination. Users should not be able to select the same airport as departure and destination"

Since I started off without enough information for this app, I will firstly pick a **rough technique**:

Experience Based Technique:

- Estimated time: From previous experience with other apps/tests:
Determined the high-level checklist for **REQ1**
"Check if the distance between any 2 airports is displayed correctly, in miles**." (3m)**

Work Breakdown Structure (WBS):

- To estimate the time: I will break down the **REQ2** into subtasks.
1. **Determined the low-level technique:**
Pairwise

2. Writing down the conditions (5m) :

C1 (Departure) : 99
C2 (Destination) : 99
Flight (Possible, Not possible) : 2

3. Creating the pairwise table (40m):

I noticed in the app code that it imports **99 points** for airports, on the map, from this link: Airports AWS

So 99 x 99 x 2 = 19,602

To reduce the table, I took just two states Georgia (GEG) and Memphis (MEM) and wrote the table for them:

FROM	M1	TO	M2	======= AIRPORT =========	FLIGHT
	0		1.660	GEG OR MEM	OK
	1.660		0	GEG OR MEM	OK
	1.660		1.660	SAME AIRPORT	_
	0		0	SAME AIRPORT	_

So 2 x 2 x 2 = 8

But then I reduced the unnecessary columns until I got 4 possible tests :

(GEG to MEM, MEM to GEG, Same airport GEG, Same airport MEM)

Reduced it again to 3 tests:

TC1 : Check if the flight from Georgia to Memphis is possible.

TC 2: Check if the flight from Memphis to Georgia is possible.

TC 3 : Check if the flight is not possible from and to the same airport.

4. Writing down the Test suite in Testrail for each of the 3 tests (15m)

Test cases are here : Airport distance map - Testsuite.pdf or in TestRail under my test suite.

5. Testing each case in the suite (2m x 3 = 6m)

TOTAL : 1h6m

Three-point-estimation:

Optimistic value 1h6m / Pessimistic value 5h / Realistic value 2h

E = (1.6h + 5h + 2h) /3

E = 3h20m

This would've been nice, but it really took me the whole night :))) to do all of this homework 😇