Team 10
EECS 448
04/03/2022

Agile Story Point Estimation

Discussion

We took a total of 154.5 hours to complete Project 1, and we decided to initially place this project in the 13-story-point pool as it had been among the hardest assignments we have done. However, since this number of hours was a collective team effort, whereas most of the other assignments we will use as references were individual effort, we decided to divide 154.5 by 5, such that each part represents an individual team member's effort. 154.5 / 5 = 31 individual hours. Consequently, 31 [hr] = 13 [pt] * t [hr/pt], so we obtain t = 2.5 [hr/pt] approximately, per person. To estimate the total time Project 3 will take, we multiply the number of hours in its respective story-point pool by 5, since we originally divided the hours by 5.

Results

Based on the previously shown calculations, we obtain the following story point hours:

Story Points	Estimated Time [hr]	Reference Assignments
1	2.5	1. EECS 168 Lab 1: Hello World 2. EECS 168 Lab 2: data types and operators 3. EECS 168 Lab 3: if statements
2	5	1. EECS 268 Lab 1: board games 2. EECS 268 Lab 2: stacks 3. EECS 368 Assignment 3: tabbed panels
3	7.5	1. EECS 268 Lab 7: maze walker

		2. EECS 268 Lab 3: CPU processes 3. EECS 368 Assignment 4: Haskell functions
5	12.5	1. EECS 268 Lab 4: browser interface 2. EECS 368 Assignment 7: HTTP server 3. EECS 560 Lab 3: binary trees
8	20	1. EECS 368 Assignment 5: nim 2. EECS 268 Lab 8: binary search trees part 1 3. EECS 268 Lab 9: binary search trees part 2
13	32.5	1. Project 1 2. EECS 388 Final Project: RC car 3. Project 2

Clarification

In the previous estimation, we put Project 2 in the 8-story-point pool. However, now that we have concrete data for how long the project took, which was 137 hours, we decided to place it in the 13-story-point pool and use it as a reference.

Conclusion

After filling out the table with these references, we decided to place Project 3 in the 5-story-point pool, because we think it will take roughly the same amount of time as the other assignment

references in that pool, being less than half as difficult as Projects 1 and 2 due to only having to create the user interface with no functionality.

As a result, we estimate that it will take 12.5 * 5 = **62.5 hours** to complete the project, where 12.5 is the number of hours a 5-point assignment approximately takes for one person.