3.1

TimeLine [?/]

* Planning: first 2 days
* UX design: days 2 - 3
* UI design: days 3 - 5
* Backend Development: days 5 - 9
* Frontend Development: days 9 - 12
* Testing and Launch: days 12 - 14

3.2 Cost, effort, and pricing estimation

PC1: 4 PC2: 4 PC3: 3 PC4: 2 PC5: 3 PC6: 5

PC7: 4 PC8: 5 PC9: 5 PC10: 4 PC11: 4 PC12: 1

PC13: 3 PC14: 4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Function Category | Count | Simple | Average | complex |  |
| User input | 12 | 3 |  |  | 36 |
| User output | 7 | 4 |  |  | 28 |
| User queries | 3 | 3 |  |  | 9 |
| Number of data files | 6 | 7 |  |  | 42 |
| Number of external devices | 5 | 5 |  |  | 25 |

GFP 140

PCA = 0.65 + .01\*( 1 \* 1 + 2 \* 1 + 3 \* 3 + 4 \* 6 + 5 \* 3) = 1.16

FP = 140 \* 1.16 = 162.4

Estimated Effort = 162.4 / 60 ~ 3 persons - weeks

Team size = 6

Duration 3/6 = 2 weeks

Estimated labor rate is $2,000 per week

**Total Labor Cost:** $4,000

3.3 Hardware Cost

* For our project we will need a server for client login and database management, a good server that we’ve found is the HPE ProLiant DL560 Gen10 from HPE It is estimated to be $12,206.45[??]
* For testing purposes we will need different devices to test the app on to make sure it works on are targeted devices so we will need an iphone, android, and tablet. Those combined should cost around 1,350.

[?/]

“App Development Timeline: How Long Does It Take?: Existek Blog,” *RSS*, 15-Mar-2020. [Online]. Available: https://existek.com/blog/app-development-timeline-how-long-does-it-take/. [Accessed: 15-Apr-2020].

[??]

“HPE ProLiant DL560 Gen10 6130 2P 64GB-R P408i-a 8SFF 2x1600W PS Entry Server,” *HPE Store US*. [Online]. Available: https://buy.hpe.com/us/en/servers/rack-servers/proliant-dl500-servers/proliant-dl560-server/hpe-proliant-dl560-gen10-server/hpe-proliant-dl560-gen10-6130-2p-64gb-r-p408i-a-8sff-2x1600w-ps-entry-server/p/875807-B21?gclid=Cj0KCQjwyur0BRDcARIsAEt86IB5jRNHjQ6B-Guv-29A0B0\_jGM8Bm5LcUCYSQA46yKAjY2sr8AsPycaAlq1EALw\_wcB&gclsrc=aw.ds. [Accessed: 19-Apr-2020].