Sundial: Cost Estimation Using the Application Composition Model

Counts

Number of Screens: (Login Screen, Calendar Screen, Event Screen, and Homework Screen) 4

Number of Reports: (End of Month)1

Number of 3GL Components: 28

Number of Data Tables: 1

Complexity Levels

Screens: All 4 Simple

Reports: Simple

Complexity Weights

Screens: 1 for each of 4 screens = 4

Report: 2 for the report

3GL Components: 28(10) = 280

Object Point

OP = 3 + 2 + 280 = 285

New Object Point

Estimated Reuse: 50%

NOP = 285 \* (100-50)/100 = 285 \* (.50) = 142.5

Object Point Productivity

Developers’ Experience: Low = 4

ICASE Maturity and Capability: Nominal = 13

OPP = (13+4)/2 = 17/2 = 8.5

Person-Month Effort

Effort PM = 142.5/8.5 = 0.88 = 16.76 = 18

<https://discountcomputerdepot.com/todays-top-deals-save-big/apple-imac-21-5-desktop-computer-quad-core-i5-2-7ghz-8gb-1tb-sie>

Apple iMac with i5

$500(9)=4500 probably closer to 5000 with shipping

Server Cost

<https://www.quora.com/How-do-you-calculate-server-costs-per-user-for-a-social-networking-type-platform-where-storage-for-each-user-would-max-out-at-2gb-a-month-500mb-a-day>

Mouse and Keyboards:

$20(9) = $180 = $200

<https://www.amazon.com/Logitech-Desktop-Durable-Comfortable-keyboard/dp/B003NREDC8/ref=sr_1_3?qid=1573167577&refinements=p_36%3A-3000&rnid=386442011&s=pc&sr=1-3&th=1>

Average Hourly rate for a Project Manager:

<https://www.payscale.com/research/US/Job=Project_Manager%2C_Software_Development/Salary>

Average Hourly rate for a Software Developer:

<https://www.payscale.com/research/US/Job=Software_Developer/Salary>

Average Hourly Rate for a Software Engineer:

<https://www.ziprecruiter.com/Salaries/How-Much-Does-a-Software-Engineer-Make-an-Hour>