Tue- 7 /16 4:39 AM

Hello team,

I'm Michael Schmidt, your group coordinator for this week's Teach assignment for CS 416. Please review the instructions on Canvas (<https://content.byui.edu/file/1682c7bf-acb5-4616-aeae-34930a15bee6/1/Teach/416.13.Teach.html>). However, one change is that I will be sending out the email the day before instead of the morning of the due date, so it will give everyone more time to respond. Please **check your e-mail daily** and have your response done by 6:00 pm MT.

**Task: Estimate Numbers (Due 7/16 6:00 pm MT)**

Our first task is to get our estimate numbers. I think the easiest way to do this is to send me copy of your Week 8 Ponder assignment with any written explanations or rationale edited out. The reason for this is that we will be discussing our rationale in later responses. Please make sure you include all numbers (D, Ck, etc.) in addition to your total development effort.

Thanks! I look forward to your responses. Let me know if you have any questions or concerns.

Michael Schmidt

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Tue 7/16/ 11:08 pm

Hello Michel,

I am Rochak thanks for your email. This is my number 4253503696 if you want to contact me direct.

I have attached my week08 ponder. If you need anything else, just email me.

Wed : 7-17 5:09 AM

Hello everyone,

Thanks for your responses! First, here are some resources that might be helpful to refresh your memory on the Week 08 Assignment:

Week 08 Ponder Instructions

<https://content.byui.edu/file/1682c7bf-acb5-4616-aeae-34930a15bee6/1/Ponder/416.08.Ponder.html>

Graduation Planner SRS

<https://content.byui.edu/file/1682c7bf-acb5-4616-aeae-34930a15bee6/1/Ponder/416.08.Ponder.SRS.pdf>

**Task: Complexity and ESLOC (Due 7/17 6:00 pm MT)**

Today we're going to work on Complexity (D) and effective lines of code (ESLOC). The lines of code were mostly consistent but the complexity numbers varied greatly. The group data is in the attached document. Please respond to the following three questions in the body of this email. You don't need a separate document.

**Question 1**

*After reviewing the group data in the attached document, fill in values and rationale for the following conflicting values:*

*Complexity Values*

Course Choice Display

Complexity Value (D):

Rationale:

Filtering

Complexity Value (D):

Rationale:

Registration Restrictions

Complexity Value (D):

Rationale:

Scheduling Conflicts

Complexity Value (D):

Rationale:

Waiting List

Complexity Value (D):

Rationale:

*Effective Lines of Code*

Course Choice Display

ESLOC:

Rationale:

Registration Restrictions

ESLOC:

Rationale:

**Question 2**

If you were asked to divide the modules into two groups based on complexity, how would you divide them?

More complex:

Less complex:

On average, what complexity value (D) would you give each of the groups you defined above?

D (More complex):

D (Less complex):

**Question 3**

Do any of the modules require real-time processing? If so, which ones?

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Thu 7/18 5:55 AM

Hello team,

Because I only received one response on time, we will take these numbers as our consensus:

|  |  |  |
| --- | --- | --- |
|  | D | ESLOC |
| Course Choice Display | 12 | 20000 |
| Filtering | 12 | 14000 |
| Registration Restrictions | 21 | 10000 |
| Scheduling Conflicts | 12 | 8000 |
| Waiting List | 8 | 16000 |

**Task: Growth & Productivity Factors (Due 7/18 6:00 pm MT)**

**Question 1**

What growth factor(s) (Table 4-4) should we use to get our final values for Se (effective size)? What are the new values? Explain your reasoning.

**Question 2**

What productivity factor(s) (Table 4-5) should we use for our calculations? Explain your reasoning.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Thu 7-18 10:02 AM

If I am thinking it correct and we are talking about software growth over time for question time, then i would say the software for the university doesn't grow much after we make it. I think only the few maintainance need to be done, so I would keep it simple like may be 13.

And for factors I will pick internet internal.

Next Email same topic

7/21 2:36 AM

Aren’t we doing the same project we did in assignment 8. If so where do we have a real time kernel computing in that system. I am wondering how internet can be a real time application. Do you think querying from database in the current time is a real time? Then what about the computing that happens near to OS and hardware. I don’t think it will be good to tell a web app as a real time application. I feel like it is not even close. Anything that runs on internet like web application can be considered a real time application. A true real time application takes lot of time to build. It is not like a web app where you run one line of query in database and get the instant result. Real time sits on top of OS or is linked with OS in internet. Database doesn’t work when internet is not working.

I feel like

D is no more than 15 because web application is very simple to understand and learn.

For other I will go with you.

For Ck = 1/productivity factor = 1/52 = 0.0192

Ed = 1648

eTotal = k \* Ed = 1.3 \* 1648 = 2145

2145 / 30 = 71.5 (This is eTotal in PM)

Now, 71.5/12 \* 100,000 = $595,834 approximately $600,000.