



**Faculty of Engineering and Applied Science**

**SOFE 3490U Software Project Management**

**Lab #3**

**Group 12**

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## Topic Area: Class Application

Class application is an organic project since the application to be built is based on creating a better version of existing university applications to keep students, faculty and staff connected in one place. The issue with the current applications used by students and faculty at Ontario Tech U is that these are not meant to be for social purposes. Our team's goal is to create an application for users to use as often as the social media applications focused on the school community where they can also access class information, grades and events just like the other applications used by the school.

### COCOMO Model:

For an organic project system has 25 KLOC,

Effort:

$$E = a (KLOC)^b \quad \text{where } a_{organic} = 3.2 \text{ and } b_{organic} = 1.05$$
$$E = 3.2 (25)^{1.05} \approx 96 \text{ person-months}$$

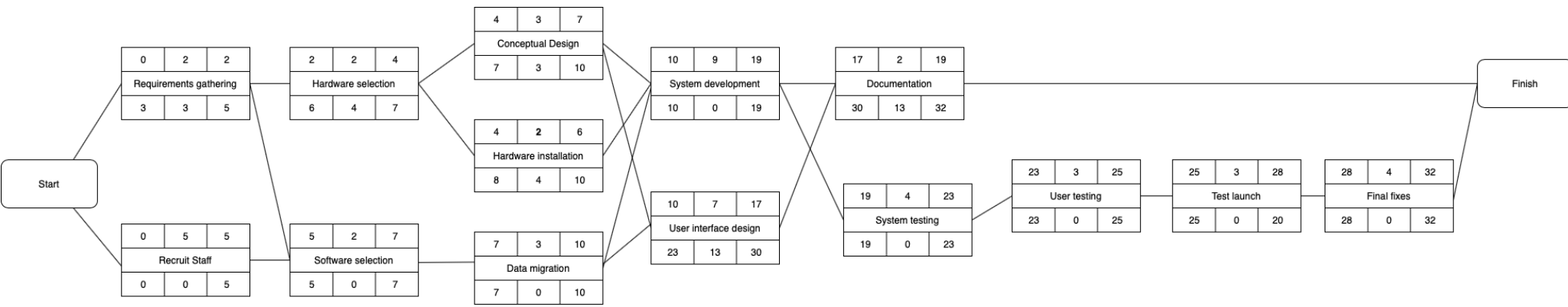
Duration:

$$D = a (E)^b \quad \text{where } a_{organic} = 2.5 \text{ and } b_{organic} = 0.38$$
$$D = 2.5 (96)^{0.38} \approx 8 \text{ months}$$

### Function Points:

External Input (EI)	Medium	4FPs
External Output (EO)	Easy	4FPs
External Inquiry (EQ)	Medium	4FPs
Logical Interface File (LIF)	Medium	10FPs
External Interface File (EIF)	Medium	7FPs
Total:		29FPs

Activity Diagram:



## **Risks associated with our project:**

**Risk 1:** Software development delays due to inexperienced staff

**Countermeasure:** Upper level staff, managers and senior programmers will check periodically on the work done to make sure everything is going according to the plan.

**Risk 2:** Performance Risk

**Countermeasure:** We have to be consistent with our results in order to make our application a successful one. We have to update and implement new features every now and then to keep the audience interested.

**Risk 3:** Wrong budget estimation

**Countermeasure:** Staff will try their best to keep the project under budget.

**Risk 4:** Racism and Cyberbullying

**Countermeasure:** Since our application features real-time chat, we have to make sure there is a strict policy on racism and cyberbullying. We don't want our audience to misuse our application to disappoint or abuse anyone.

**Risk 5:** Technical difficulties after user testing

**Countermeasure:** Development team will be very well trained to face any difficulties after user testing phase.