



SOFE 3490U Software Project Management

Lab 3: MusicHub

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Task 1: Estimated Effort

1.1 Function Point

End User Requirement	Type	Complexity	Function points
Enter User Info	External Input	Low	1
Login	External Inquiry	Medium	3
Add Artist	External Interface File System	Low	2
Add Content	External Interface File System	Low	2
Validate Content	External Inquiry	Medium	4
Stream	External Output	High	5
Create User Playlist	External Interface File System	Medium	3
Validate Genres	External Inquiry	Low	2
Track Royalty	External Inquiry	Low	2
Offline Playback	Logical Interface File	Medium	4
AI created playlist	Logical Interface File	High	5
Hiring New Staff	N/A	N/A	1
Designing of UI	N/A	N/A	3
Testing	N/A	N/A	5
Marketing	N/A	N/A	2
Release	N/A	N/A	1
Total			45

1.2 COCOMO Model

Cocomo (Constructive Cost Model) is a regression model based on LOC, i.e number of Lines of Code. It is a procedural cost estimate model for software projects and often used as a process of reliably predicting the various parameters associated with making a project such as size, effort, cost, time and quality.

The constants for a and b are 2.4 and 1.05 respectively. This project type is Semi-Detached. Given our estimation of KLOC our group agreed upon 6000 lines of source code.

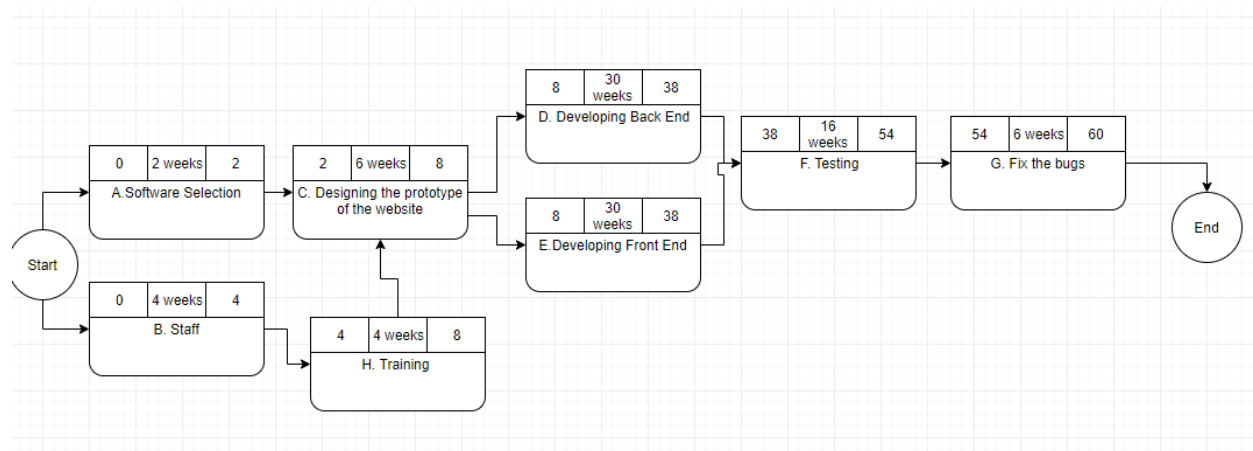
- Semi-detached (a=2.4 and b=1.05)
- KLOC = 6
- $E = a(KLOC)^b$

$$= 2.4(6)^{1.05}$$

$$= 15.7496 \text{ Person-Months}$$

Therefore, using the basic model, we can assume an approximate 15 months, to finish this project.

Task 2: Project Activity Diagram



Task 3: Risk

- The most important risk when developing is time allocation since you do not want to waste too much time on one particular task.
- Money allocation is just as important as time, again there is no need to spend too much money on useless.
- To reduce each risk our engineers will use multiple techniques and use prior projects as well to make the task easier to comprehend.
- We are going to be very thorough when prototyping to reduce real time errors that the public can encounter on a daily basis.
- We are going to be using secure https and ssl connections to store the data of our clients as well as our music producers from getting hacked.
- There is always a risk when first hiring a new team of developers since not everyone will have previous experience in the correct department which will take time.