Software Project Management Lab 3

Smart Health Prediction System

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COCOMO Estimation:

Based on the characteristics of our project, we have chosen to select Organic as our team size is small and the problem is well understood. We estimate to have around 1000 lines of code for our project.

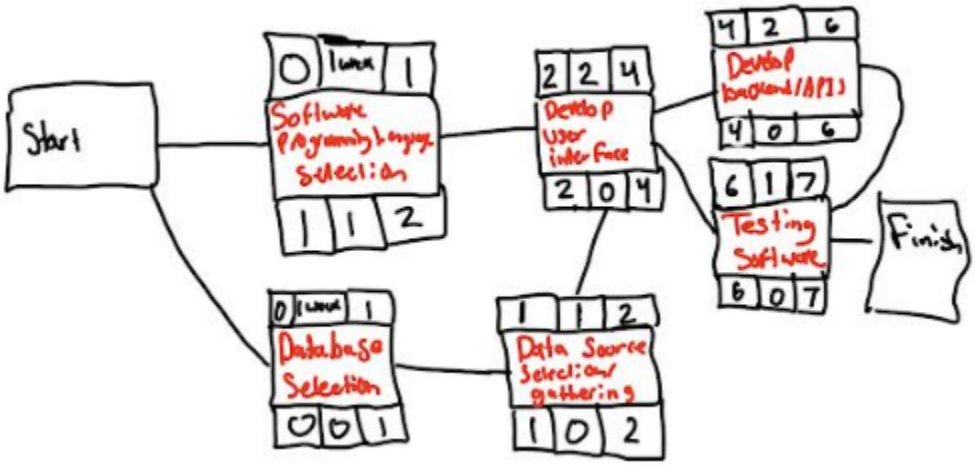
Calculate Effort, Time, and Persons Required:

Effort= a(KLOC)^b= 2.4(1)^1.05 = 2.4 person-months

Time= c(KLOC)^d= 2.5x(2.4)^0.38 = 3.48 months

Persons_required= Effort/time = 2.4/3.48 = 1 Person

Activity Diagram:



Risk Associated With Project:

1. Querying the Data incorrectly
    a. Countermeasures: Using a relational database such SQL can help in retrieving the correct results

2. User Interface not being User Friendly
    a. Countermeasures: Using Bootstrap and React.js to create more interactive and easy to follow User Interface

3. Not Enough data received from the User to determine the diseases/illness match
    a. Countermeasures: Prompt User with commonly asked questions which can help provoke more data to be acquired.