Software Project Management

Lab 3

GitHub assignment

Music Hub

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**Estimated effort:**

**COCOMO:**

Since this website is coded by Javascript, HTML, CSS and PHP, so it is a semi-detached project in Cocomo model I, which means the effort estimate is:

E= a (KLOC)^b = 3.0 \* (2) ^1.12 = 6.52 Person - month

**Function Points:**

|  |  |  |
| --- | --- | --- |
| **External User Type** | **Number** | **Multiplier** |
| **External Input** | 2 | 3 |
| **External Output** | 3 | 4 |
| **External Inquiry** | 1 | 3 |
| **Logical Interface File** | 37 | 7 |
| **External Interface File** | 0 | - |
|  | **Total/FPs** | **280** |

**Activity diagram:**



**Potential risks: / counter measures**

**Cost estimation**  
After we have estimated the costs of our project we still run the risk of over or underestimating the project costs. If we were to underestimate the costs we may run out of funding for the project and may face trouble in acquiring more funds.

If we overestimate the costs, we run the risk of our investors not choosing to fund our project all together. Also, work tends to expand to fit the budgeted time and funds, so we may be over spending or being inefficient. In this case we will not be competitive with competitors whom better allocate their resources.

Counter measure: In order to ensure that we make the most accurate cost estimation we can, we will deploy multiple cost estimation methods.

**Technology:**  
In the development of the front and backend of our app, we run the risk of using technologies that can potentially become outdated or obsolete in the near future. We will make sure to use the more future proof technology available and also make it so it can be upgraded in the future.

**Employee:**  
We have the risk of our programming crew not being familiar with the technologies involved in the development of our project. We will be sure to screen our potential applicants to ensure that they are familiar in the programming languages and

**Security:** Our online payment may have security risks. It may be vulnerable to attack or theft of customers private information. To mitigate this risk we will ensure that we use a framework that is very secure.

Another security risk would be safety of user information, if the data is not secure a data breach could occur resulting in the publicising of private user information including:

* Name
* Password
* Credit Card Numbers

We would need to test and ensure the data store is secure so that private user data is safe.

We run the risk of copyright infringement if we do not hold the rights to publish or host songs on our platform. We will have to ensure that we have the required legal rights and keep them updated so we do not fall into any legal issues.