Info 3330

Project Planning

JMX

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Summary

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1. Introduction

* Describe the **subject** to be planned. This maybe the subject of your Scrum mini-project or of your UML project.
* Choose the most valid subject for a more detailed schedule.

1. Development Cost of the Project

* Make a **development cost** estimation (effort, time, number of persons needed) using the COCOMO intermediate model.

1. Planning of the project

## Approach used

* Explain the **approach** used to establish your schedule: Work Breakdown Structure or Product Breakdown Structure. Justify your choice.

## Organization chart of the project team

* Explains the **organization** of your team with the role of every member (plan between 5-10 people in your team, taking into consideration the number of persons needed during your estimation.

## Graphs

* Establish the schedule of tasks (link between tasks, resources assigned, etc.).
* Copy the **Gant** graph **and** the **Pert** graph of your schedule established under MS Project.
* Specify the **critical path** of your project: justify your answer.

## Project Budget from MSProject

* Calculate the final project **budget** including**:**
  + The human resources cost (using MS Project and the schedule already defined).
  + The hardware cost ;
  + Etc.

## Reports (obtained from MS project)

* Include the report concerning the **human resources** usage
* Include the report concerning the **budget** usage.
* Introduction

**Our main objective from this project is to give the users the freedom of sharing their personal stuff and put them online for sale.**

**By that, users are free to select from several categories and subcategories in order to seek their desired items.**

**In order to share a user’s stuff, an Ad is created containing the Ad’s title, location, description with the related person’s phone number, him being a user as well, and a symbolic image of what the user is offering for sale.**

**Therefore, this report will handle the project planning steps of this particular project.**

**We will discuss the different aspects of the project planning** using Microsoft Office Project 2016.

**Concerning the main functions of our project (JMX):**

* + - **Login in and registering to the JMX application**
    - **Setting up and Ad for selling purposes**
    - **Posting the Ad**
    - **Search for a suitable item/Ad**
    - **Contacting the user related to the desired Ad**
* Development Cost of the Project

**COCOMO stands for** COnstructive Cost Mod**.**

**COCOMO is one of the most widely used software estimation models in the world. Barry Boehm developed it in 1981. It predicts the effort and schedule for a software product development based on inputs relating to the size of the software and a number of cost drives that affect productivity.**

**Using the COCOMO intermediate model, we were able to estimate the development cost concerning:**

**1-effort**

**2-time**

**3-number of people needed**

**Calculating Effort estimated:**

**E = a \*(KLOC) ^ b \* EAF**

**Based on our project’s nature, a = 3.0 and b = 1.12 being a semi-detached project**

**KLOC is equal to 9.351 based on our project having between 9300-9400 lines of code**

**After checking our cost drivers we ended up with an EAF equal to 1.342236**

**Eventually, E = 49.2392**

* Planning of the project

## Approach used

**Mainly, our project was planned relying on the scrum methodology, which splits the whole projects into possibly shippable increments.**

**Work breakdown structure is used to simply complex tasks by breaking down each task into many smaller tasks called sub-tasks. The resulting sub-tasks are broken down further into smaller tasks**

**This process continues until the tasks resulted by this process are well defined so they can be accomplished in a matter of days or weeks at most.**

**Now that we have mentioned that, we can and should use WBS not just at the beginning of a project, but at the start of each sprint in the project since the main aspects of a WBS greatly coincides with the scrum methodology approach**

## Organization chart of the project team

**Proper project team organization is one of the key constraint’s to project success. If the project has no productive and well-organized team, there is an increased probability that this project will be failed at the very beginning because initially the team is unable to do the project in the right manner.**

**Without right organization of teamwork, people who form the team will fail with performing a number of specific roles and carrying out a variety of group/individuals responsibilities. Hence, when you plan for a new project, first you must take care of the best project team organization through team building activities.**

**The team is formed in the following manner:**

* **Joseph Maary and Maher Makhlouf handling the database building**
* **The three other members, Chantal Saker, Yara Makhouf, Rizkallah Shaker are responsible for the direct coding on the project.**

## Graphs

## Dependencies are the relationships among tasks, which determine the order in which activities need to be performed. There are four types of dependency relationships

## These four types are:

## . Finish to start

## . Start to start

## . Finish to finish

## . Start to finish

## In this project, we added 6 dependencies. Four dependencies on tasks and two between summaries.

## The below Grant chart will clearly show the previously mentioned dependencies.

## C:\Users\Joseph-PC\Desktop\Projects\Mini Project\Untitled1.jpg

## C:\Users\Joseph-PC\Desktop\Projects\Mini Project\Untitled2.jpg

## The program evaluation and review technique, commonly abbreviated PERT, is a statistical tool used in project management, which was designed to analyze and represent the tasks involved in completing a given project. Below is how a PERT chart looks like:

## C:\Users\Joseph-PC\Desktop\Projects\Mini Project\Untitled3.jpg

## NB: original files for gantt and pert files exists inside the folder provided in the usb

## Studying our project’s tasks, we can dedicate that we cannot find any critical tasks since all tasks have a finish slack different from zero.

## Therefore, we do not have a critical path.

## C:\Users\Joseph-PC\Desktop\Projects\Mini Project\Untitled4.jpg

## Project Budget from MS Project

## Final project budget of the human resources and the hardware is showed in the following chart:

## 

## Final project budget of the tasks is showed in the following chart:

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