MoneyHub

## Software Management PLan PRogress REport

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CSCI 463- Software Engineering

2/20/2020

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# Revision Summary

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| --- | --- | --- | --- | --- | --- | --- |
| Revision | | Name | Description of Change | | | Date |
| 1.0 | Sam Dressler | | | Initial Creation of report | 2/20/20 | |
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# Introduction

# Project Planning

## 3.3 Estimation

A COCOMO II early design model was used to calculate the time frame for project completion, as well as the dollar price.

In this equation, Effort is measured in person months, A is a constant of 2.94, B is the complexity factor ranging between 1.01 and 1.24, and M is a multiplier which considers reliability and complexity of the product (RCPX), reuse of the product (RUSE), difficulty of the platform (PDIF), experience of the personnel (PREX), the capability of the personnel (PERS), required schedule (SCHED), and personnel support facilities (FCIL), and size is measured in thousands of lines of code.

Factors for M:

The values which contribute to the final value of M were chosen from a standardized table based on a rating from 1 to 5, where 1 is low priority and 5 is high priority. This does not necessarily mean the values shown for RUSE, PREX, and FCIL are low priority, it simply means the priority was used to determine the value of the factor.

Factors for B:

The value which contribute to the final value of B were ranked on a scale from to where is considered extra high, and extra low. This is counterintuitive, but this is the convention of the model.

The size of the system is estimated to be about 1,250 or 1.25 thousand lines of developer written code. Auto generated code is not considered in the effort estimation.

With these calculations completed, we can now estimate the time frame for the project.

The estimated time frame, from beginning to completion of the system will be about 3.61 months. Using this time frame, the dollar amount of the system is estimated to be about $49,000.