Project Charter

Paint Calculator

Purpose of this Document

The purpose of this document is to provide brief details of the intended purpose of a new application or interface development, identifying objectives, benefits, costs and stakeholders at a high level.

Version History

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| --- | --- | --- |
| Version | Date | Brief Summary of Change |
| DRAFT | 01/04/19 | Original Document Created by Matthew Turner |
|  |  |  |
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1. Overview
   1. Background

This product is a demonstration for the Borwell Software Challenge (<https://borwell.com/career> )

* 1. Objectives

Taken directly from the website:

*“Write a program that takes as input the dimensions of a room and outputs the following:*

* *Area of the floor*
* *Amount of paint required to paint the walls*
* *Volume of the room.*

*Consider the use of unit tests where appropriate and ensure your code is clean and readable.*

* 1. Deliverables

Web form using MVC, Bootstrap, JQuery, JavaScript, HTML, CSS

* 1. Scope
  2. In Scope

The proposed product will incorporate the following aspects:

Web Form with input for room Width, Length and Height of Room, and any doors and windows within the room.

Function to return the area of floor, area of wall, room volume, paint required, tins required based on tin capacity

* 1. Out of Scope

1. Benefits
   1. Safety

None

* 1. Financial

Paint purchased would be an accurate amount so we don’t overspend.

* 1. Efficiency

We would be able to purchase all the paint in one go rather than through different orders which could take days to arrive.

1. Constraints & Risks
   1. Constraints

This product can only calculate square rooms. Further work will have to be performed to incorporate different room and wall shapes such as curved.

* 1. Major Risks

1. Users & Stakeholders
   1. User

User will input the size of the room (width, length and height); indicate any doors and windows, the amount of coats of paint the user wants to use, the m²/l number on the tin of paint, and paint tin size. Once done they can click a button that gives them the summary of the following:

* Area of floor
* Room volume
* Wall Area
* Amount of paint required (l)
* Tins of paint required