St Aloysius College (Autonomous), Mangaluru

Department of Computer Science, Application & Animation

VI Semester BCA

**PAINT MIXING SYSTEM**

Group No. : 11

Project Team Members :

(Name & Reg No.) Esha 204636

Dhanish 204687

Suada 204692

Project External Guide with Address : Junaid Ahmed

Mega paints trading llc

Al quoz industrial area 4

Al asayel street, Dubai

PO box 77541

Project Internal Guide : Prafulla Ma’am

**TITLE OF THE PROJECT – PAINT MIXING SYSTEM**

**ABSTRACT**

Trying to match that specific color that your client demands can often be very daunting as well as time consuming. A paint color search, match and dispense software designed for retail paint stores enables you to find the right color faster, formulate and dispense any color with greater accuracy, resulting in happier customers and less mis-tints. The application is designed to select and mix the paint of the needed color and quality. The application provides shop owners with a tool to select the needed color of paint for a customer, set the quality and material of the paint, and choose the recipe for making this particular color. The application also enables to store information about customers and recipes of paints they have ever purchased. If the customer needs the paint of the same color, he or she will easily obtain exactly the same paint mixed according to the recipe that was saved for that particular customer in the database.

This application is for a paint company, where colorist (paint color matchers) develop colours based on the customer samples round the clock, to save the formulation (recipe) of the color in accordance with the manufacturers standard ratio of binders addition (to achieve the right quality) and retrieve this formulation later on to manufacture the same paint in the quantity that’s ordered by the customer.

Additional data available

• Costing of each color is identified

• Raw material consumption – based on Project number (for stock control)

**OBJECTIVE OF THE PROJECT**

* The application should assist paint shop staff in the process of selecting and mixing paint to get the desired color and quality.
* It should provide shop owners with a tool that will help to choose the required hue and texture of paint for every customer.
* Store information on customers as well as the recipes of paints they have purchased.

**PROJECT CATEGORY**

Web-based Applications

**LANGUAGES TO BE USED**

Front end: HTML, CSS, JavaScript

Back end: PHP, MySQL

**HARDWARE INTERFACE:**

* Processors: Intel Pentium dual-core or above
* RAM: 2GB and above
* Hard disk Utilization: 40GB and above
* Input Devices: Mouse, Keyboard

**SOFTWARE INTERFACE:**

* Browser: Internet Explorer, Google Chrome, Mozilla Firefox
* Server: Apache
* Εditor: Sublime Editor

**STRUCTURE OF THE PROPOSED PROJECT**

Work process – Sample received from customer – Color formulation developed – A sample quantity of paint provided to the customer for approval – If approved the customer place the order in Quantity – Color formulation retrieved with the quantity to be prepared

**MODULE DESCRIPTION**

**Admin**

1. **Login:** login for admin
2. **Update Employee:** register new employees, update details of employees or delete existing employees
3. **Update customer:** register new customers, update details of customers or delete existing customers
4. **Update Stock:** update stock of items
5. **Update formulation:** update existing formulations
6. **Manage purchase:** view and update purchases

**Employee**

1. **Login:** login for employees
2. **Selection of Category and Subcategory:** selection of type of paint and its subcategory
3. **Formulation creation:** step by step creation of the formula of the required product
4. **Searching for existing formulation:** searching for previously created formulas based on different parameters.
5. **Calculations and conversion between kilograms and liter:** calculations and conversion between kilograms and liters based on the requirements of the customer.
6. **Costing:** calculation of total cost based on formulation and its quantity
7. **Stock management:** managing, identifying and updating the stock.

**Customer**

1. **Login:** login for customers
2. **Purchase History:** View purchase history

**FUTURE SCOPE OF THE PROJECT**

The webpage will be expanded to provide order online services to preexisting customers

**BIBLIOGRAPHY**

“Retail Paint Software - Paint Color Match Software.” Datacolor,

<https://www.datacolor.com/business-solutions/product/datacolor-paint/>

Software for Selecting and Mixing Paint | Altoros.

<https://altoroslabs.com/portfolio_software-for-selecting-and-mixing>

“Painting Colour Match Software.” Creative Resins,

<https://creative-resins.co.uk/unique-colour-match-software/>

**Sample Project Synopsis**

**Title of the Project** – Meaningful title without aabreviations & versions (Title should be specified with the same name in all documents wherever mentioned)

**Abstract –** Mention about existing software / manual functioning of the system & description of proposed project

**Objective of the Project –** objective should be specified clearly

**Project Category –** Identify the category of project

**Language(s) to be used –** Mention both frontend & backend

**Structure of the proposed project –** description of proposed project in detail with features

**Module Description –** Major module identifications and detailed functionality of each module

**Any other information –** Any specific requirement such as tools / hardware / interfaces / functioning methods / third party tools (like SMS packages, API’s for email authentication, payment gateway), etc.

**Future scope of the Project –** Explain how the system is going to be expanded in the later stage

**Bibliography -** Referred books / websites / journals / projects / papers (Reference style should be in APA format)