

BAHRIA UNIVERSITY KARACHI CAMPUS

**Department of Software Engineering**

**COURSE: CSL 113**

**COMPUTER PROGRAMMING**

**PROJECT Proposal**

**CLASS: BSE – 1B(FALL - 2024)**

Project Title

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* **INTRODUCTION & BACKGROUND**

Drawing and designing tools becomes the second nature in digital creativeness. Microsoft Paint is a popular application but it is time that we are in need for an old-age lightweight drawing alternative due to basic drawing features. Using the familiar user experience with an ugly Interface and simple functionality, but we are building a Modern Paint Application using C# and Windows Forms.

The creative side of this project combines programming skills with creativity to finally end up providing a tool that is intuitive for beginner users and still functional for advanced users.

* **PROBLEM STATEMENT**

Professional painting tools are usually paid and students cannot afford it . Unpaid painting applications take much more space or storage . Moreover, these applications gets crashed while opening , take a lot time to open and also shows some runtime errors and bugs. This project seeks to address this gap by creating a **Modern Paint Application** with a user-friendly design and practical functionality.

* **PROPOSED SOLUTION**

**3.1. FEATURES OF THE PROJECT**

The **Modern Paint Application** will offer:

* **Drawing Tools** – Pencil, brush, eraser, and advanced brush styles.
* **Shape Tools** – Options for predefined shapes like rectangle, line ,circles, and square.
* **Color Palette** – Customizable color picker with RGB .
* **Canvas Features** – Resize shape functionality.
* **File Management** – Save and open files in popular formats .

**3.2. METHODOLOGY**

* **Planning** – Identify features and define a timeline.
* **Designing** – Use Windows Forms to create an intuitive user interface.
* **Coding** – Develop drawing logic using C#.
* **Testing** – Test each feature rigorously to ensure performance and accuracy.
* **Deployment** – Package the application for end-user distribution.

**3.3. TECHNOLOGIES TO BE USED**

* **Programming Language:** C#
* **IDE:** Visual Studio
* **Libraries:** Windows Forms
* **File Handling:** System.IO for saving and opening files
* **PROJECT SCOPE**

The project will focus on:

* Implementing core drawing tools and canvas management features.
* Providing an intuitive interface for end-users.
* Supporting essential file operations like saving and opening files.

**Exclusions:**

* Compatibility with operating systems other than Windows.
* **PROJECT ABSTRACT**

Modern Paint Application is a simple desktop drawing tool created in C# and Windows Forms. Providing features such as drawing tools, shape tools, color selection, and the ability to save files. It aims to target users in search of a simple yet modern replacement for basic paint programs.

* **REFERENCES**
* Visual studio
* Pinterest
* Windows forms

Teacher’s Signatures: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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