**Ahsanullah University of Science and Technology**

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**Project Report**

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| **Course No** | **CSE - 2100** |
| **Course Title** | **Software Development - II** |
| **Project Name** | **Paint(2D)** |
| **Section** | **B (B1)** |
| **Year & Semester** | **2nd 1st** |
| **Project Group Member** | 1. **Hasnath Jami Chowdhury**   **ID:17.01.04.067**   1. **Anas Mohammad Anwar**   **ID: 17.01.04.079** |

**Date Of Final Submission : September 24, 2018**

***Paint 2D***

***Software Description:***

The primary aim of this software is to create a field for designing and create paintings, be it for pastime or for more important purposes. A user can use many of the useful tools that may help drawing and creating paintings the user’s choice.

***Description of Features:***

**Opening Page:**

**Loading Screen:**

There will be a first page which is the loading screen. This screen will appear and then will proceed to the user to the next screen, which is the main screen.

**Background Music:**

In the beginning of the program a background music is set which is the main music of the program.

**Music On/Off Button:**

In the front page there will appear a music on/off button which is used to on or off the background music of the program.

**Power Off Button:**

In the front page there will appear a power off button which is used to exit the program with yes or no confirmation dailouge box.

**Menu Buttons:**

**File:**

* **New**
* **Open**
* **Save**
* **Exit**

**Option:**

* **Home**
* **Info**
* **About Us**

**Contact Us:**

**Phone**

**Facebook**

**Gmail**

**Different Utility Buttons:**

**Pencil:**

This button enables the pencil tool of paint. The pencil delivers a lighter and less thick markings.

**Brush:**

This buttons enables the brush tool of paint. This delivers a thicker markings in the canvas.

**Spray:**

The spray tool is activated by this button. Spray gives out small splats of markings on the canvas.

**Paint Bucket:**

This enables the paint bucket tool which can be used to fill out a certain region with a specific colour.

**Colour Picker:**

This button enables the colour dropper that can take out colour from anywhere on the canvas.

**Eraser:**

The eraser buttons activates eraser tool and can erase colours and markings from the screen.

**Clear Screen:**

By the help of this the whole screen will be cleared at once.

**Colour Selector:**

This lets the user choose the colour to work with.

**Circle:**

This button enables the utility of drawing a circle The user can drag from the starting to end point to draw the circle.

**Rectangle:**

This button enables the utility of drawing a rectangle. The user can drag from the starting to end point to draw the rectangle.

**Rounded Rectangle:**

This button enables the utility of drawing a rounded rectangle. The user can drag from the starting to end point to draw the rounded rectangle.

**Triangle:**

This button enables the utility of drawing a triangle. The user can drag from the starting to end point to draw the triangle.

**Line:**

This lets the user draw a straight line.

**Filled- in Circle:**

This buttons lets the user draw a circle that’s filled with the user’s desired colour.

**Half Circle(Filled):**

This buttons lets the user draw a half circle that’s filled with the user’s desired colour.

**Filled- in Rectangle:**

This buttons lets the user draw a rectangle that’s filled with the user’s desired colour.

**Filled- in Rounded Rectangle:**

This buttons lets the user draw a rounded rectangle that’s filled with the user’s desired colour.

**Filled- in Triangle:**

This buttons lets the user draw a filled in triangle that’s filled with the user’s desired colour.

**Thicker Line:**

This buttons lets the user draw a straight line that’s comparatively thicker than a normal line.

**Thickest Line:**

This buttons lets the user draw a straight line that’s even thicker than the previous line.

**Work Distribution:**

**Hasnath Jami Chowdhury(ID:17.01.04.067) :** Graphical parts,Design, Menu Design,Logical parts and features like Pencil,Paint Brush,Eraser,Clear Drawing,Rectangle,filled rectangle,Rounded Rectangle,Filled Rounded Rectangle,Line,Color Selector,Music,File(Save,Exit,Home).

**Anas Mohammad Anwar(ID:17.01.04.079):**

Opening Page Design,Graphical parts,Logical parts,Some features like Air brush,Paint bucket,Color

dropper,Circle,FilledCircle,HalfCircle(Filled),Triangle,Filled in Triangle,Thickest Line,Thicker line,File(Open,New,Read Me).

**Future Plan:**

♣ There can be a help and suggestion feature which will answer users question and take suggestion from them for the development of the software and make it more user friendly. We can further develop for smart phones so that users can use this more easily.

***Conclusion:***

After completing this project we learned how to work with java swing and java awt. These project help us to learn more about java. Completing this project makes us happy. This project is developed to meet the needs of showcasing the creativity of the users and help them draw it out. There are many more functions that could be used but not available in this software but we tried to bring out a general structure of what a paint software should have.