COMP3015 Project Specification Form

# Member Information

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|  | Full Name | Student ID |
| Member 1 | Pan Feng | 19205945 |
| Member 2 | Xu Jinyang | 19220316 |

# KidPaint Version

Select the implemented approach by adding a “X” in the bracket:

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| --- | --- | --- |
| ( X) Basic Approach | ( ) Advanced Approach | ( ) Peer-to-peer Approach |

# Application Layout Protocol

Describe the transferred data for a chat message:

*Hint: you may use the method shown on page 6 of the lab manual named “Socket Programming – Transmission Control Protocol I”*

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| Client get the msg from the UI by getmsg().  getmsg() just return the non-null String if user press the Enter.  Client send the message length and then send the content by bytes. |

Describe the transferred data for the color change of a single pixel:

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| There is an array called changes, and the change[3] store the color number.  If the changemode = 1, change[1] = 1 which represent pen modification.  Then in server side updated the data[][] and repaint it. |

Describe the transferred data for the color change of an area (if any):

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| There is an array called changes, and the change[3] store the color number.  If the changemode = 2, change[1] = 2 which represent bucket modification.  Then in server side updated the data[][] and repaint it. |

# Program Testing Procedure

Provide an instruction for running the programs:

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| **Start the server-side program (if any):**  Run the program firstly.  **Start the client-side program:**  Run the program after server started. |

# Additional Features:

Explain the features including the logic flows and the procedures for testing the features:

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| Rectangle tool.  Use for-loop to manipulate the data[][] based on the left top point and right bottom point X,Y.  Oval  Use for-loop to find the sum of the distance of the point to C1 and C2 are equal to 2a |

# Data Saving

Describe how the system stores the pixel data in a file. You may also paste the sample below.

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| Directly print all the numbers in the data[][] line by line. |