Capstone Project Weekly Progress Report

|  |  |
| --- | --- |
| Project Title | Air Canvas |
| Group Name | Python Thinkers |
| Student names/Student IDs | Anto Francis (C0825095)  Omer Volkan(C0856373)  Rupesh Chandran(C0826779)  Sachin Sreekumar (C0825096) |
| Reporting Week | Mar 26, 2022 to Apr 1, 2022 |
| Faculty Supervisor | Prof. Parissa Naraei |

# **Tasks Outlined in Previous Weekly Progress Report** using one of the scrum tools listed above(Provide detailed information on the tasks to be completed in this week)

* Create buttons for changing the color of the drawing in the canvas using OpenCV
* Improving the identification of colors using better HSV values for respective colors.
* Starting to work on the final presentation

# **Progress Made in Reporting Week** (Provide detailed information on the progress that you made in the reporting week. Limit your write-up to no more than two page)

* Buttons were setup on the webcam layout by using OpenCv libraries to change the color of the drawings in the canvas. We have a total of 5 buttons: red, blue, yellow, green and a clear all button to clear all the drawings in the canvas.
* The deques helped us to get the position of the contour and when position the center of the contour falls on each respective color buttons, the color of the drawing is changed according to the button color in the webcam layout.
* And when the center of the contour falls on the clear all button, all the drawing are cleared by
* Writing functions of OpenCV are explored and will be using the knowledge acquired to the next week objective: to draw on the canvas.

# What did you learn about your project this week? ( Provide examples of which errors you faced and how you solved it, tasks you did not consider in scope but you ended up adding as a dependency for other components of your project, etc. )

* We learned about drawing functions of OpenCV
* Learnt about various other functions like moments which can be used to get the centroid of all shapes

# What values did you add to your project / team during the past week? ( Provide examples of how you enhanced team collaborations, conflict resolving, task distributions amongst the team members, problems you solved, visions you shared with your mates, etc. )

* Researched about all functions of OpenCV relevant to our project and made decision accordingly which functions to use.
* Used Tortoise git for merging all the codes of different members and after merging code review is done with the scrum master where code optimization is done.

# How will you take your project into its next level and what do you need to do so? ( provide examples of how you will enhance the quality of work and what resources you expect requiring to help you do so ).

* Many feedbacks were given by the audience during the last presentation. All those feedbacks were about improving the performance of the project and additional features which will bring great impact in the overall use case of the project. We plan to include those feedbacks in the project.
* To be on lookout to include more features.