Capstone Project Weekly Progress Report

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| 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 | Apr 2, 2022 to Apr 8, 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)

* Draw on the canvas using the hand gestures.
* Implement feedbacks received on last presentation in the project after determining whether it is feasible or not.
  + Input using laser pen
  + Zoom in/out feature
  + Line end snapping
* Start on the final report.

# **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)

* Detecting bare hand is a tricky task, since the multiple points on hand is being selected.
* When using laser pen, occasional laser hit directly on camera causes unintentional lines to be drawn
* Trying with double marker
  + One marker to set the beginning of the drawing

This can also serve the purpose of snapping to the previously drawn line end, clicking on buttons without making unnecessary lines on the canvas

* + Second marker to draw

# 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.