

**The University of the West Indies**

**Department of Computing and Information Technology**

**Undergraduate Project Course**

**Weekly Status Report**

**Project: Tropical Fruit Identifier Date: 28th April 2020**

**Iteration: 13**

**Implementation Status**

**Highlights – We have a Model.**

**Risks or Issues List**

| Date Entered | Risk or Issue | Description | Resolution | Status |
| --- | --- | --- | --- | --- |
| 3rd /02 /2020 | Low image availability | Some of the fruits are providing a bit hard to source | Manipulation of current images to simulate additional images | In progress |
| 18th/02/2020 | Images too big for annotation tool | The images when loaded into the annotation tool appear to be too big to be labelled. | Adding code to resize them as they are loaded into the tool. | Resolved. |
| 25th/02/2020 | Some images are rotated in annotation tool | Some of the images are loaded into the annotation tool at an anticlockwise 90 degree angle. This seems to be images taken by Samsung phones. | There are no found resolutions to the issue since it doesn’t occur with every photo so adjusting the code may cause more issues. | Unresolved (indefinitely) |

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| --- | --- | --- | --- | --- |
| 8th/03/2020 | One GPU, bad hard drive | The only laptop in the group with a GPU also has a failing hard drive so there are a lot of precautions like backups being taken going forward. | A new drive, an SSD was ordered. [Added later: It was never delivered so no replacement is available] | Unresolved. |
| 31st/03/2020 | A whole pandemic | A lot of readjusting has been taking place over the last two weeks due to changes to life caused by the covid19 pandemic. | Time. We’re taking our time to figure out how to cope and to work with all the distractions of our new school from home or new dorm arrangements. | Being dealt with. |
| 28th/04/2020 | Insufficient Memory | Both GPU and CPU utilization results in an insufficient memory error. The GPU memory is held by Pytorch and isn’t being freed. | The CPU has more memory, so the code was adjusted to use it although a GPU is available.  The batch size for training and testing was reduced to one. | Resolved. |

**Tasks in Progress or Completed in the Last Iteration**

| Task Name | Description | Team Member Responsible | % Complete |
| --- | --- | --- | --- |
| Database functionality | Data functionality was added to the frontend application | Atonia | 75% |
| Creating a Yolov3 Model with Pytorch | Models were created and saved but not tested. | Shereece | 100% |

**Upcoming Tasks for the Next Iteration**

| Task Name | Description | Team Member Responsible |
| --- | --- | --- |
| Testing the model | The model is yet to be evaluated. | Shereece |
| Integration with the website | Finding a way to use our model to detect fruits with the website | Shereece |
| Write Up and Final presentation | Prepare the final document and presentation for the project | Everyone |