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From: BEST (Beacon-based Evacuation System and Technology)

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Summary

Mobile Application successfully built. For paper, draft of paper successfully written, and should be modified by teammates and requested to confirm to Dr. Matson. Additional work on Deep learning models to increase accuracy started. Started preparing presentation

What “BEST” completed this week

- Mobile application successfully built
 - iOS - Navigation of 3-dimensional and 2-dimensional maps successfully ported.
 - Android OS - Navigation of 2-dimensional map successfully ported. Working in progress on 3-dimensional arrow to point the next destination
- First draft of paper written
 - Wrote the design and experiment part. However, as developer working on increase accuracy, the content of paper may be changed
- Deep learning models are working in progress
 - Need to increase accuracy on specific cells which has low accuracy
- Presentation preparation started

Things to do by next week

- Presentation
 - Need to write script on weekend
- Paper writing
 - Modify the paper if Dr. Matson can advice on our paper
 - Need to correct the grammar, structure, logic of paper

Problems or challenges:

- 3-dimensional arrow does not work as expected
 - It fluctuates when we changed our current location
 - Checked the code, and found error on code
 - Modified, worked well
- Accuracy of deep learning models dropped in certain point [1]
 - Revised the code, and found there are some problems at Tensorflow Lite [2]
 - Searched on Stackoverflow, the issue was on labeling. Fixed the label by searching every cell

References

[1] Tensorflow, “Tensorflow Lite”, Tensorflow, “<https://www.tensorflow.org/lite/guide>” (accessed Jul. 15, 2022)

[2] Tensorflow, “Convert TensorFlow models”, Tensorflow, “https://www.tensorflow.org/lite/models/convert/convert_models” (accessed Jul. 15, 2022)