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| **Project Status:** | | | | | |
| The current project is under great progress, that each member has their own tasks to focus on. The mobile application was initializing for the user interface, and two members worked on the map data via two different software (Auto CAD & ArcGIS) to create a grid system for our algorithm. Last but not least, our initial A\* algorithm is finished, and more details of the mapping algorithm will be added later. | | | | | |
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| **Milestones:** | | | | | |
| **ITEM** | | | **DUE DATE** | | **STATUS** |
| Android user interface prototype | | | 10/17 | | Complete |
| Pure A\* Mapping algorithm (only the algorithm parts, not in the practical situation ) | | | 10/17 | | Complete |
| Insert map into the mobile app | | | 10/28 | | In Progress |
| Map data transformation (to a grid system, putting nodes on the virtual map) | | | 11/4 | | In Progress |
| The functioning mapping algorithm (for one floor, input virtual data and get correct output) | | | 11/4 | | In Progress |
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| **Issues and Risks:** | | | | | |
| **TEM** | **PROGRESS/DECISIONS** | | | | **STATUS** |
| The data after map transformation may not perfect for us to apply to our algorithm. For instance, the distance between each point is not evenly distributed, A\* requires such a feature to retrieve all adjacent points. | We may add some features to the A\* algorithm, which should also increase the complexity of computing. | | | | On Hold |
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| **Summary of Progress:** | | | | | |
| **Previously Planned Work** | | | | | **STATUS** |
| User Interface Draft (mobile app) | | | | | Complete |
| Navigation Algorithm Draft (using A\*) | | | | | Complete |
| Items Data Collection (Books, computers, and other things on the priority list) | | | | | In Process |
| Transformation of pdf map into a grid system (CAD) | | | | | In Process |
| ArcGis Research and Learning (for the same purpose above) | | | | | In Process |
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| **Planned for This Interval:** | | | | | **ASSIGNED TO:** |
| Working on consummate User Interface and Map Insertion | | | | | Yi Yang |
| Working on processing the pdf map to readable data by CAD | | | | | Wenkai Cao |
| Finish the mapping algorithm for a single floor | | | | | Yixin Li |
| breaking the first-floor map into several nodes by ArcGis. | | | | | YangKai Zhang |
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