

WEEKLY STATUS REPORT

To: Mrs. Srishti Srivastava
From: Aakash
Subject: Weekly Status Report
Period Ending: Week 12/12 – 17/12

ACTIVITIES COMPLETED THIS WEEK

Work done on Polygon Approach

- Understanding and identification of edge cases and probable errors that needed to be handled during the implementation of the Polygon approach.
- Identified that some lines may have 'z-coordinate' due to errors in making of the drawing.
- Wrote a code for the extraction of the lines assuming that they are part of the same floor, thereby removing the 'z-coordinate' error.
- Presenting other probable errors to Mrs. Sristhi and why the current polygon algorithm proposed by her in the last meeting may need modifications .
- Discussion of other methods and algorithms to solve the problem.

Search for other Algorithms for the Improvement of Polygon Approach

- Reading the thesis of Haoxiang Wu Chapter-3 : 2-D Floor Plan Processing till Line-Grouping .
- Identified that his work included redrawing of the floor plans before further processing.
- Development of the basic understanding of processing done by Haxiang in his thesis in CH-3.1 and 3.2 .
- Search for algorithm that can automate the work done by Haoxiang Wu in his thesis in CH-3.1:Floor redrawing .

Proposed New Approach to the Problem

- After concluding that making of wall polygon will not be that useful for the extraction of center line ,proposed a new algorithm for the extraction of the center line in such a way that also solves the problem of connecting them.
- Discussion with Mrs Sristhi and Soumya on edge cases and correctness of the algorithm.
- Starting the implementation of the code to extract parallel line and subsequently the center line form dxf file.

ACTIVITIES IN PROCESS	NEXT ACTION
➤ Implementation of the code to extract	

parallel line and subsequently the center line from dxf file.	
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ACTIVITIES TO BE DONE IN NEXT WEEK

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| <ul style="list-style-type: none">➤ Proposed Plan is as follow : (for the upcoming weeks)➤ Step 1) Implementation of the code to extract parallel line and then subsequently the center lines.➤ Step 2) Correction of drafting errors .➤ Step 3) Implementation of the proposed algorithm to extend and connect center lines. |
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ISSUES FOR IMMEDIATE ATTENTION

➤ --None--

KEY TEAM INTERDEPENDENCIES

➤ --None--
