CS490 – Autonomous Vehicle Design

Engineering Notes No. 5.1

INFORMATION

NAME: Isabella Acosta

DATE: 11/12/24 – 11/18/24

Sprint: 5

JIRA BACKLOG

Responsible for:

- No backlogs items directly assigned to me

Contributed to:

- Work on First Draft of Poster
- High – level Architecture Diagram
- Component Diagram
- Context Diagram
- Troubleshoot Polyverif's new install
- Meet with External Team Member Barwal Maheshwari
- Complete SDD Document following same breakdown as SRS
- Determine Meeting times and frequency with Acclivis
- Determine Goals with Acclivis

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RESOURCES & DOCUMENTS CONTRIBUTED TO

Table 1 - Contributions

Date	Resource/Document	Location	Contribution Description
N/A	N/A	N/A	N/A

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COMPONENTS TESTED

Table 2 - Testing

Date Tested	Component	Result	Comments
11/13/24	Docker install	Ran into an OS problem	In order to fix it, we need to update GLIBC_2.34 and Qt_5.15, which is only available on 21.xx and 22.x Ubuntu, but installing it on our current 20.04 OS could brick our system.
11/14/24	Operating system test	Ran into an OS problem	Missing glibc and qt which are needed to run Polyverif, however we need to install a different version of Ubuntu to get it working.

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PROBLEMS SOLVED

Table 3 - Solutions

Date	Problem	Solution & Notes
11/13/24 – 11/14/24	Docker install problem/Operating System issue	Our solution is to change our OS system and then we can update as well as GLIBC and QT_15.

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PROBLEMS TO ADDRESS NEXT

Table 4 – Future Problems

Problem	Description
Reinstall Ubuntu	Currently on 20.04 Ubuntu and must update our system.
Work on SDD Document	Keep working on our SDD Document
Work on Poster	Poster covering our project this semester, images and limited text to only necessary descriptions and timelines of our project

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MEETING NARRATIVE NOTES:

Table 5 – Meeting 1

11/12/24	Meeting Type: StandUp/**Class**/ETC
Met with Product Owner(s): Y/**N**	
Problems Brought Up:	
Problem	**Proposed Solution**
Other Items Updated on:	
Continued watching other team presentations.	
Additional Notes:	

Table 6 – Meeting 2

11/13/24	Meeting Type: StandUp/Class/ETC/**Micaplex**
Met with Product Owner(s): Y/**N**	
Problems Brought Up:	
Problem	**Proposed Solution**
Docker Install OS issue	Reinstall Ubuntu which then lets us update GLIBC_2.34 and Qt_5.15
Other Items Updated on:	
Hannah emailed Bidur and shared NVIDIA driver info, docker info, and current error messages.	
Additional Notes:	

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Table 7 – Meeting 3

11/14/24	Meeting Type: StandUp/Class/ETC/**Micaplex**
Met with Product Owner(s): Y/**N**	

Problems Brought Up:	
Problem	**Proposed Solution**
Docker Install OS issue	Reinstall Ubuntu which then lets us update GLIBC_2.34 and Qt_5.15

Other Items Updated on:
• Met in MicaPlex • New errors, not docker, main issue is the operating system • Started Sprint 5 late, was supposed to start on 11/12/2024 but we were in IC 101 watching presentations. Started Sprint 5 today. • Missing glibc and qt which are needed to run Polyverif, however we need to install a different version of Ubuntu to get it working.

Additional Notes:

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NOTES:

This sprint presented us with many issues. We have been having many issues with Polyverif, they have been all over the place. There have been a few that are OS related, Docker related, and GLIBC_23 AND Qt_15 issues. We have been in contact with multiple individuals, and they have always come back with a response, but every time we have followed these instructions, we have gotten new errors. We will continue to be in contact with them to hopefully get these errors resolved and finally have a working Polyverif simulation.