Engineering Notes No. 1.2

## INFORMATION

**NAME:** William Reimer

**DATE:** 09/24/24 – 09/30/24

**Sprint:** 1

## JIRA BACKLOG

**Responsible for:**

* ERPOLYV-15: Expand Basic Render of Campus to Include Full Campus

**Contributed to:**

N/A

## RESOURCES & DOCUMENTS CONTRIBUTED TO

***Table 1 - Contributions***

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Resource/Document** | **Location** | **Contribution Description** |
| 09-24-12 (updated 09-26-24) | ERPOLYV-15 | GitHub | I created a functional 3D render of the entire ERAU campus. |
| 09-26-24 | Project Proposal Document | Discord | Worked with group to finish project proposal. |

## COMPONENTS TESTED

***Table 2 - Testing***

|  |  |  |  |
| --- | --- | --- | --- |
| **Date Tested** | **Component** | **Result** | **Comments** |
| 09-26-24 | Create a full render of the ERAU campus | Success with caveat | While functional and would suffice for future scenarios, the map could use some additional detail. |

## PROBLEMS SOLVED

***Table 3 - Solutions***

|  |  |  |
| --- | --- | --- |
| **Date** | **Problem** | **Solution & Notes** |
| 09-24-24 | Needed micaplex access to use computers with GPU’s. | Dr. Akbas is getting the group micaplex access |
| 09-24-26 to  09-26-24 | Need to finish project proposal | Meet together on discord to collaborate and finish the project proposal. |
| 09-26-24 | Need to keep paper trail of project progress | Added Sprint 1 information and Campus render to GitHub |

## PROBLEMS TO ADDRESS NEXT

***Table 4 – Future Problems***

|  |  |
| --- | --- |
| **Problem** | **Description** |
| Creating a more detailed render of the ERAU campus | For the next sprint, it would be valuable to create a new render with additional detail by taking multiple close up captures and stitching them together. |
| Better understanding requirements and specifications of PolyVerif to accommodate future scenarios | For the next sprint, it is necessary to meet with PolyVerif contributors to ask if PolyVerif will work with the hardware we have access to and will succeed with the scenarios and methods we wish to use. |
| Need to create first scenario that will be created using PolyVerif | The group will need to meet over Discord or in person to determine the group’s first scenario. |
| Create Presentation detailing project progress | The group will need to meet over Discord or in person to finish the presentation of the project’s progress so far to present to the class, project owner, and TA’s. |

## MEETING NARRATIVE NOTES:

***Table 5 – Meeting 1***

|  |  |  |
| --- | --- | --- |
| **09/24/24** | **Meeting Type:** StandUp/Class/ETC | |
| Met with Product Owner(s): Y/N | | |
| **Problems Brought Up:** | | |
| **Problem** | | **Proposed Solution** |
| Need to get connected with Quentin (someone else that has worked with PolyVerif) | | Remind Dr. Akbas on Wednesday to get us contact information |
| Decide on scenario to use | | Meet in the future to discuss this, either in-class or discord. |
| Need to finish project proposal | | Meet today on Discord to work on this. |
| **Other Items Updated on:** | | |
|  | | |
| **Additional Notes:** | | |
|  | | |

***Table 6 – Meeting 2***

|  |  |  |
| --- | --- | --- |
| **09/26/24** | **Meeting Type:** StandUp/Class/ETC | |
| Met with Product Owner(s): Y/N | | |
| **Problems Brought Up:** | | |
| **Problem** | | **Proposed Solution** |
| Need to leave a paper trail of project progress on the GitHub | | Update Github with Sprint 1 information  Update Github with full campus render |
|  | |  |
|  | |  |
| **Other Items Updated on:** | | |
| Meeting to continue to work on the project proposal  Heavy focus on proposed solution section, determining:   * Languages to be used * Software to be used * Operating system(s) to be used * Hardware necessary * Semester 1 goals   + Scenario decisions, object modeling and detection, a * Semester 2 goals | | |
| **Additional Notes:** | | |
|  | | |

## NOTES:

Sprint progress is exceptional, will definitely complete all assigned items by end of Sprint 1. Several key items are being addressed that are vital to the success of the project, including finishing the proposal, gaining access to the Micaplex, discussing potential scenarios to implement in PolyVerif, and researching and using software that enhances and will be used in PolyVerif, including making renders, learning SUNO, etc.