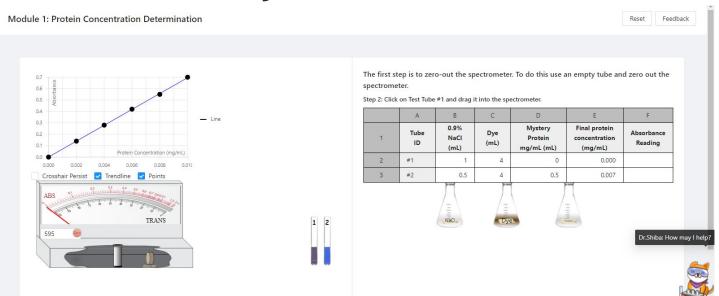


SD5_Stone Alejandro Delbrey, Andrew Fahmy, Evelyn Khew, Noah Heasley, Jonathan Vetting

Addressed Problem

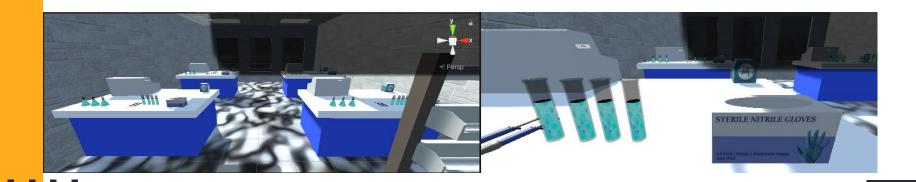
Addressed Problem

- Giving the student a virtual environment
- Converting the 2D lab into 3D



Addressed Problem

- Using new tools to apply lab logistics
- Students get familiar with lab



How - Design

Development challenges, issues, choices, and how addressed

- Coloring fluids
 - Create fluid object inside beaker/tube with unique color for each
- Spectrometer dial inaccurate
 - Accept readings within range
- Unique mystery protein every playthrough
 - Make components modular



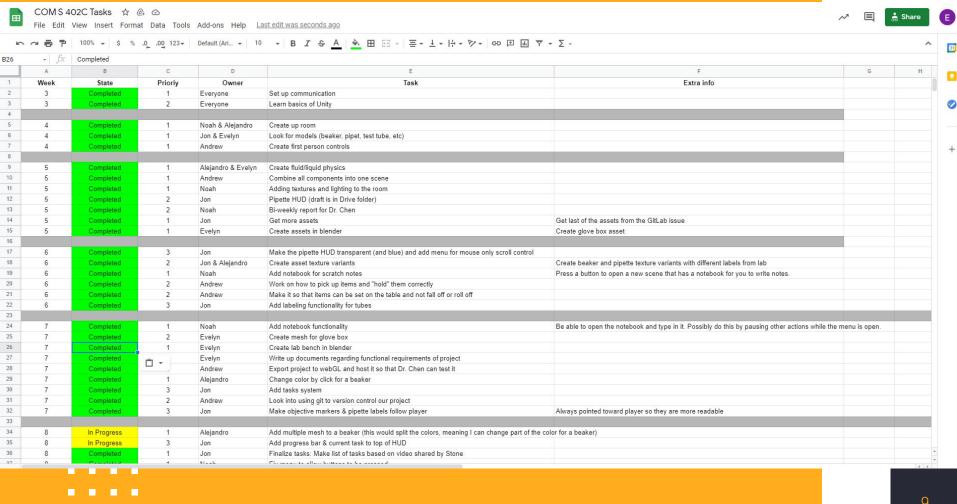
Software Development Practices

- Sprint Planning
 - Scoping
 - Google Sheets with Tasks





Weekly Sunday Meetings



Tools Used

- - Game engine used for 2D and 3D games
 - Used through scripting games (C#)
- Blender **blender**
 - Creating 3D Models
- Discord & Google Meets 🖂 DISCORD







Weekly Meetings

Tools Used (Cont.)

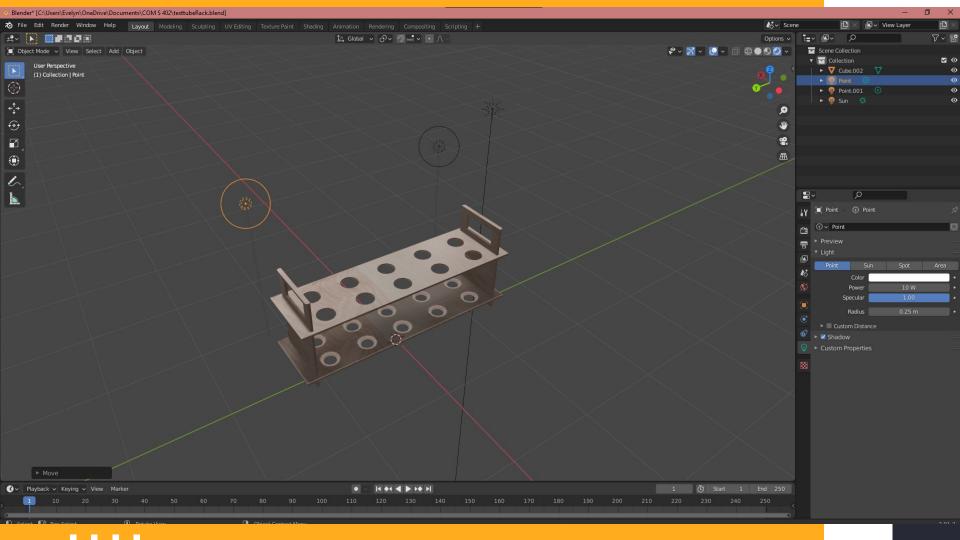
YouTube & Google





- Tutorials to learn how to use the tools
- Figuring out how to fix issues

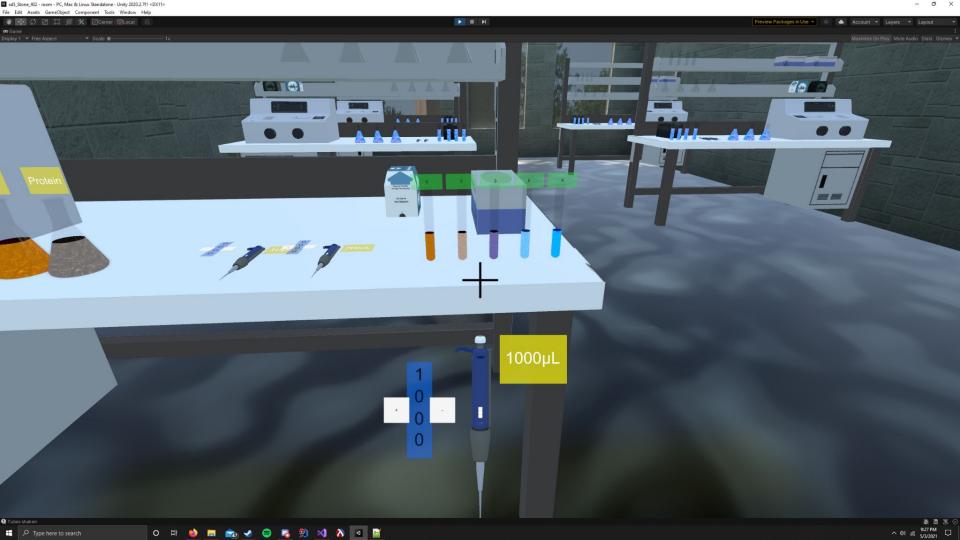






What Was Done

- Task System
- Fluids
 - Adaptable heights
- Spectrometer
 - Dial rotation
- Notebook
- Lab environment
 - Models and interactions





Contributions

Contributions

- Andrew:
 - Player movement, exporting project, new room
- Alejandro:
 - Liquid physics
- Noah:
 - Menu, notebook, communications
- Evelyn:
 - Models, website, keeping us on task
- Jon:
 - Task system, object interaction, a little bit of everything

Limitations of Design

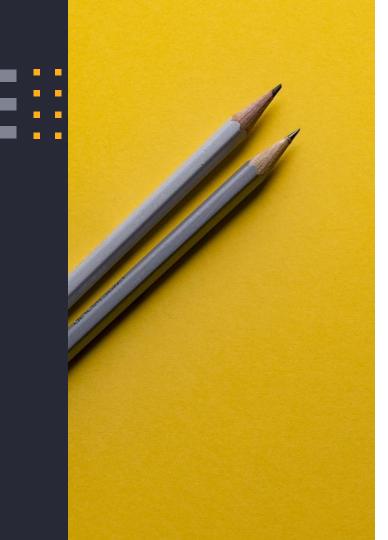
Limitations of Design

- 2D lab in react
 - Difficult to reuse code
- Unity/Unity Collaborate
 - Not built for Git
- Open Source
 - Building our own models/fluid system
- Learning new tools
 - Unity, Blender

Quick Demo

Here's what our project looks like.





Thanks!

Any questions?