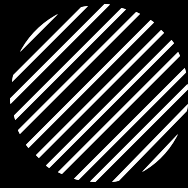




# Immersive VR Experience

GNG 2101 – Group B 3.2

# Customer Needs



- Designing and creating an immersive virtual reality (VR) experience that provides an opportunity for individuals to experience the perspective of someone living with a disability.
  - Demonstrates empathy to users

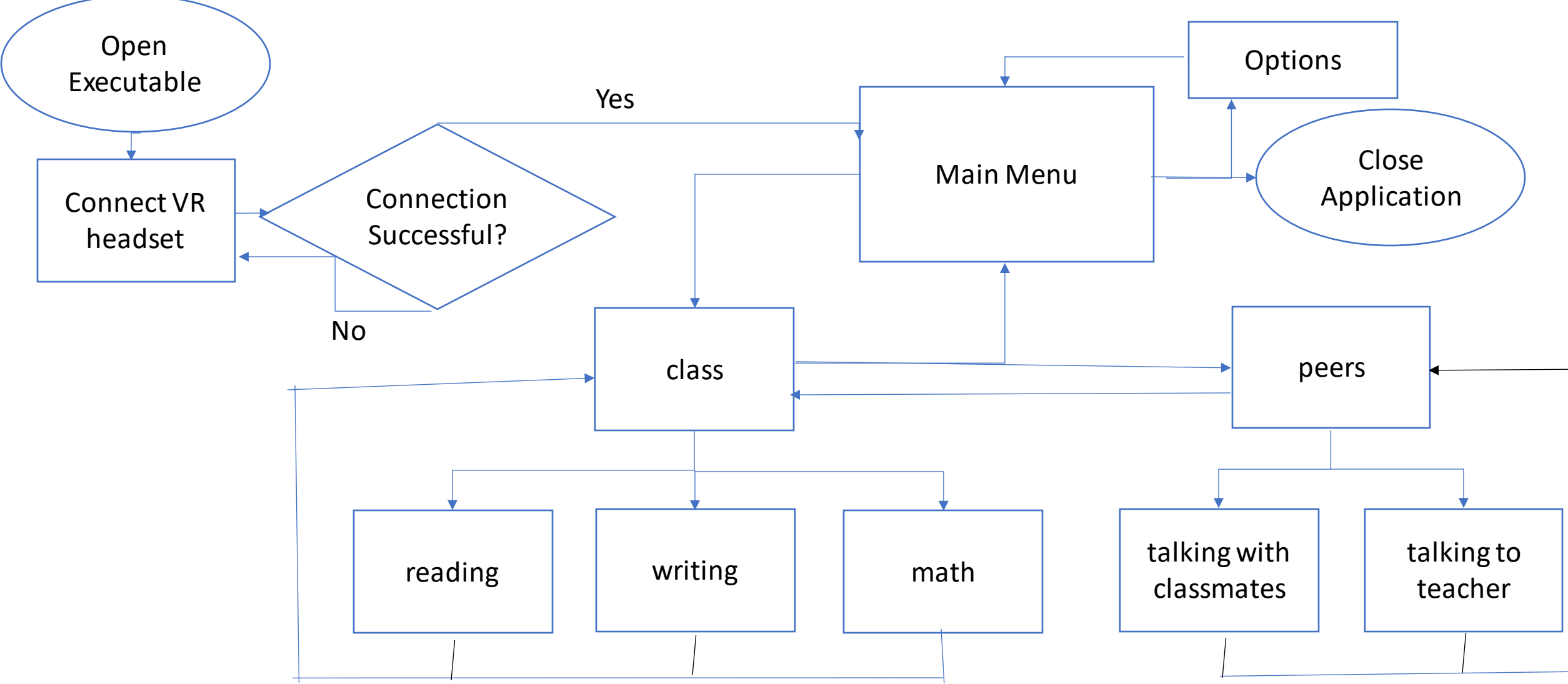
- Allowing participants to understand another's point of view by demonstrating implicit bias through VR will prove to be educational.

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# Target Specifications

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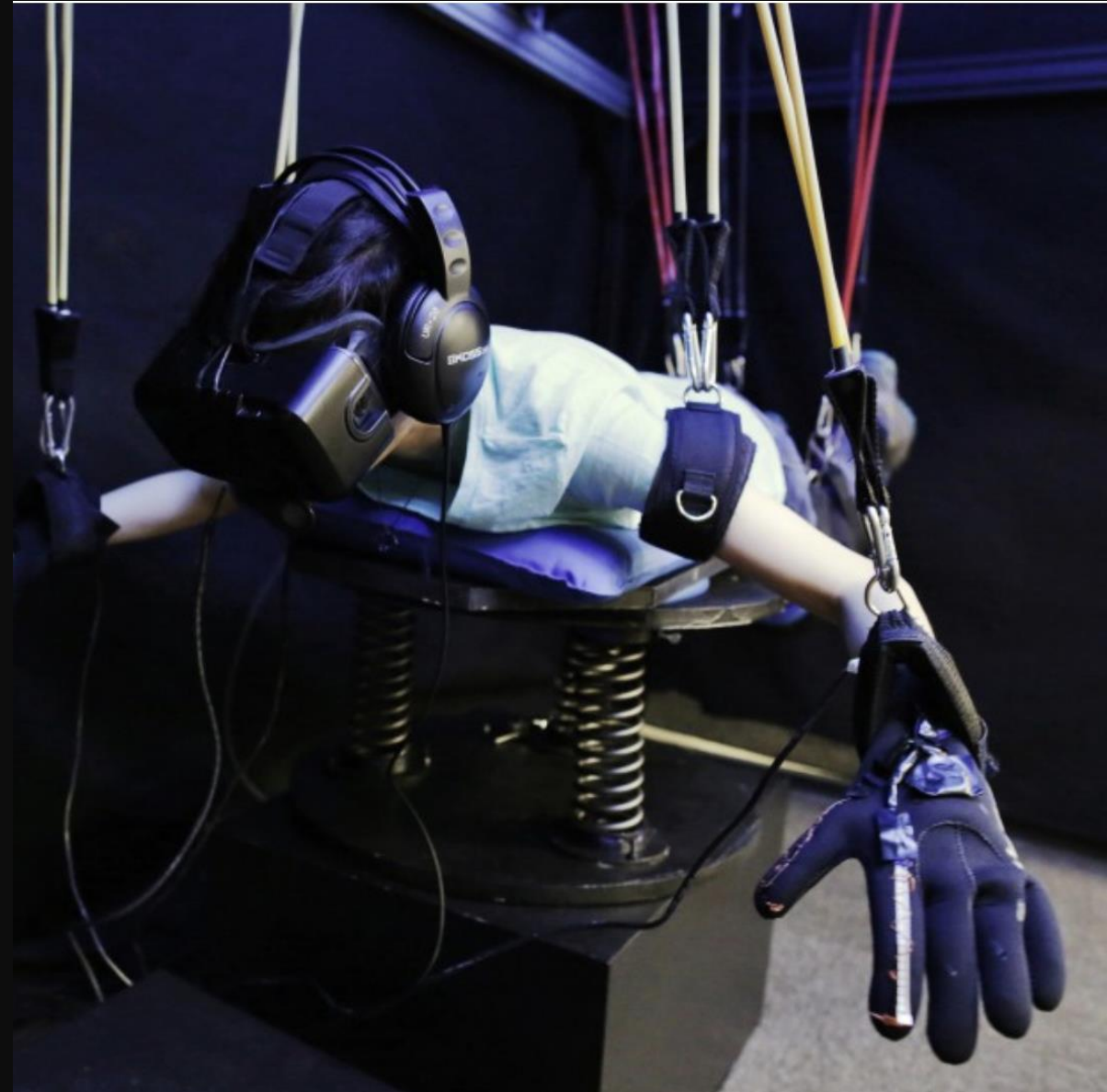
- Create a virtual experience that demonstrates empathy.
- The experience shows three distinct scenes displaying three various effects of Dyslexia.
- The experience is between 5-10 minutes in length.
- The user interacts with the environment from the perspective of someone who has Dyslexia.



# Benchmarking

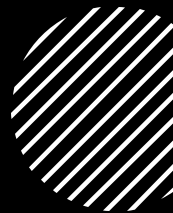
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- Dhruv Jain's disability VR simulating for scuba diving
  - Brock University and Niagara College mental disability simulator
- 





# Feedback From Client Meetings



She wanted us to focus on building a better story line over showing facts and information



Interview people who live with dyslexia to get a better understanding of how it affects their life



Improving the storyline will give the user a better experience in the shoes of someone with dyslexic.



Our client mentioned that the VR didn't have to be long, it could be 5-10 minutes.

# Results From Interview 1 With Brianna

Unaware of mistakes she makes, looks correct to her but someone without Dyslexia would notice obvious errors

Directions are a big struggle

Having to triple check little decisions to make sure she is not making mistakes

As a nurse, she always has to ask colleagues to review her work to make sure she is not making mistakes, especially with medication

Always questioning her own abilities and intelligence in the back of her head

# Moving Forward

Gain	Gain a better understanding of Unity and necessary softwares
Build on	Build on our scenes and storylines
Collect	Collect feedback from Brianna
Start	Start developing prototype 2



# Project Plan

Person	Task
Max	<ul style="list-style-type: none"><li>✓ Main menu design</li><li>✓ Player interactions</li><li>✓ Implementing options</li><li>✓ Scripting and coding</li><li>✓ Hardware connectivity, settings, and implementation</li><li>✓ Implement <u>scenes</u></li><li>✓ Review scenes once completed</li></ul>
Jasmine	<ul style="list-style-type: none"><li>✓ Find audio samples and <u>implementing</u></li><li>✓ Find player models and <u>implementing</u></li><li>✓ Find environment models and <u>implementing</u></li><li>✓ Scripting and coding</li><li>✓ Implement <u>scenes</u></li><li>✓ Review scenes once completed</li></ul>
Ryan	<ul style="list-style-type: none"><li>✓ Research</li><li>✓ Scene 1 design</li><li>✓ Dialog writing</li><li>✓ Determine accessibility <u>options</u></li><li>✓ Find assets required for scene 1 (on <u>Unity</u>)(items, environment, etc)</li></ul>
Caleb	<ul style="list-style-type: none"><li>✓ Research</li><li>✓ Scene 2 design</li><li>✓ Dialog writing</li><li>✓ Find assets required for scene 2 (on Unity)</li></ul>
Abigail	<ul style="list-style-type: none"><li>✓ Research</li><li>✓ Scene 3 design</li><li>✓ Dialog writing</li><li>✓ Find assets required for scene 3 (on Unity)</li></ul>

# Prototype 2

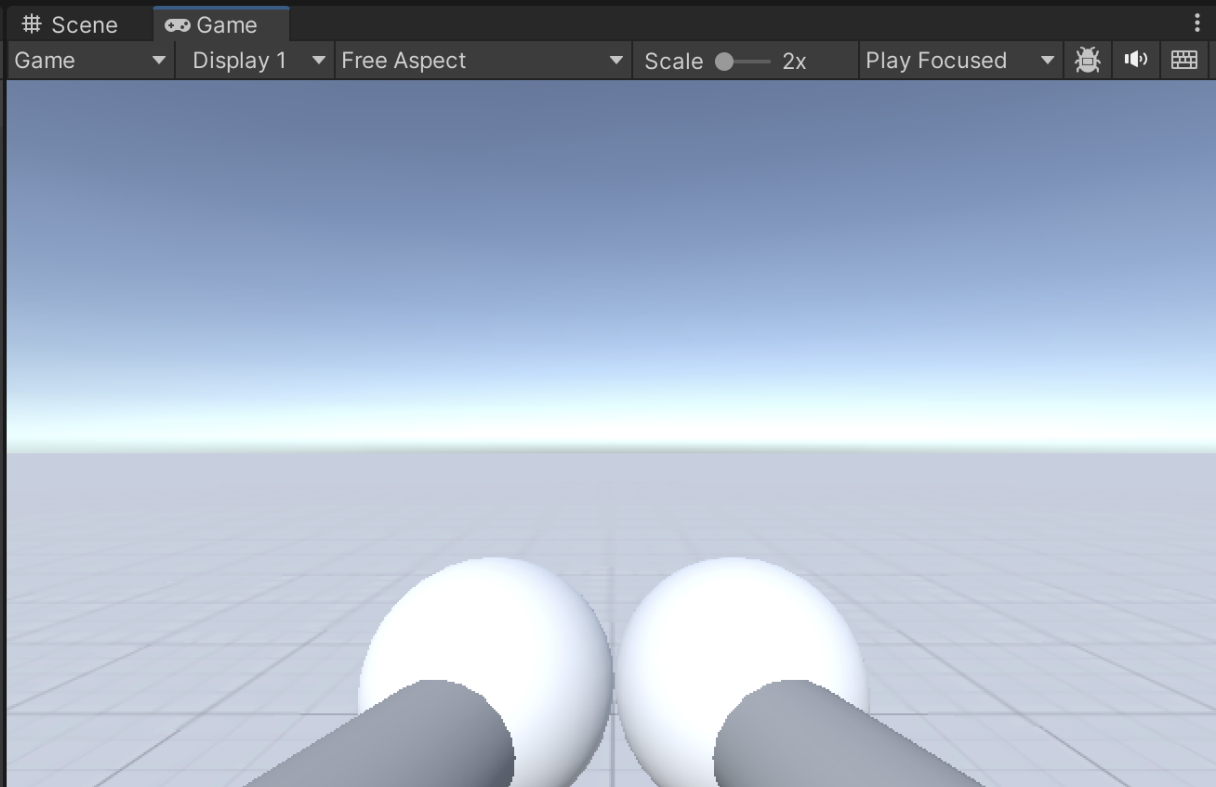
	Target Specification	Unit(subjective value of importance)	Expected Value	Actual Value
1	Quality Storyline and characters	4	Not implemented	Not implemented
2	Different Types of Dyslexic Experiences	2	Not implemented	Not implemented
3	Immersive experience	4	Not implemented	Not implemented
4	Interactive experience	5	Not implemented	Not implemented
5	Player input	5	Implemented	Implemented
6	Avatar movement	5	Implemented	Implemented
7	Version Control	5	Implemented	Implemented

# Prototype 2 cont

8	Grabbable Objects	3	Implemented	Implemented
9	Audio	2	Not implemented	Not implemented
10	Environments	2	Implemented	Implemented
11	Player Models	3	Placeholder Implemented	Placeholder Implemented
12	NPC models	2	Placeholder Implemented	Placeholder implemented
13	Object physics	3	Implemented	Implemented
14	Walk animations	3	Not implemented	Not implemented

Hierarchy

- XR Interaction Setup
  - XR Interaction Setup
    - Input Action Manager
    - XR Interaction Manager
    - EventSystem
    - XR Origin (XR Rig)



Inspector

Inspector panel showing the selected object's properties.

Tutorials

**Virtual Reality Template**  
A list of resources to get you started

**Quick Start Guide VR**  
Learn about the temp features

**Online Documentati**  
Read the official documentation

**Forums**  
Connect with the XR community

**Bug Reporting**  
Report bugs to the XR team

**Template Feedback**  
Tell us about your experience

Project Console

Assets

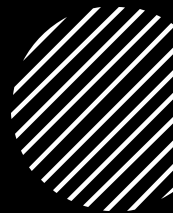
- Assets
  - Samples
    - XR Interaction Toolkit
      - 2.4.3
        - Starter Assets
          - AffordanceThen
          - Audio
          - Editor
          - Models
          - Prefabs
          - Scripts

Assets > Samples > XR Interaction Toolkit > 2.4.3 > Starter Assets > Prefabs

Climb	Climb Samp...	Controllers	Interactab...	Interactab...	Interactors	Teleport	Teleportati...
UI Sample	UI_2D	UI_3D	XR Interact...	XR Origin (...)			



## Client Questions



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How high-tech would you prefer our models to be? (Simplistic, realistic, etc.)

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Should we include voiceovers or are text boxes sufficient?

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Should we focus on conversation with peers or have equal interactive user challenges?