VR Project Design Document

11|04|2022 **Jade Kelly N00191459**

App Info	Tentative Title: Pianoscape						
	Education & Training	Mental Health & Fitness					
	Travel & Discovery	Media & Entertainment					
	Productivity & Collaboration	✓ Gaming					
	Art & Creativity	Other:					
2	To goal is for users to [learn experie	ence practice review design play other]:					
Pitch	Solve puzzles using a piano to open the door						
	This will be especially [impactful ed	ducational memorable effective fun other] ir	า VR b/c:				
	Fun						
	At a high level, during the app, users	s will:					
	Find sheets and solve puzzles by p	playing the correct notes on a piano					
	This experience will be targeted at d	devices with:					
	[6] degrees of freedom, giving users control over t	[movement & rotation] of their & contr					
3	The app will take place in:	and the user will get around the scene with:					
Basics	A eerie room	[teleport] movemen	nt.				
	The user will be able to grab:	There [will] be sockets:					
	- Sheets	- Sheet stand on piano					
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Events & Interactions

There will be haptic / audio feedback when:

- A player hits a key on the piano
- A player files a key off the

There will also be 3D sound from:

- Ambience sound
- Piano

If the user is holding:

Pointing at a piano key	and presses the trigger,	A note will play
Pointing at the piano tutorial video	and presses the trigger,	The tutorial video will play
Holding a clue sheet while pointing at the piano sheet stand	and presses the trigger,	The sheet will be placed on the sheet stand
		Suggestions: a UI change, a sound/video plays, a particle plays, an object is spawned or destroyed.

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[Ray] interactor.

and the right hand will have a:

And you [will not] be able to toggle on a [Ray] interactor using the [button].

The main menu will be located:

At spawn			

and from the main menu, the user will be able to:

- Settings/Change volume
- Play tutorial video

[Optional] There will be additional UI elements for:

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To make the user experience more accessible / comfortable:

Optimization & Publishing

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Given that this app is targeting the [headset model], target metrics are:

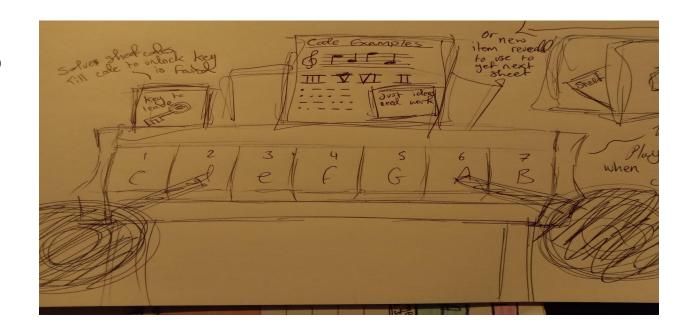
Frames per second:	>= 72	FPS
Milliseconds per frame:	< 14	ms (= 1,000 / FPS)
Triangles per frame:	50,000 - 100,000	tris
Draw calls per frame:	50 - 100	batches

Lighting strategy:

Light probes [will not] also be used for more realistic mixed lighting.

6 Other features (Optional)

7 Sketch (Optional)



8 Timeline (Optional)

	Milestone	Date
1	-	
2	-	
3	-	
4	-	
5	-	