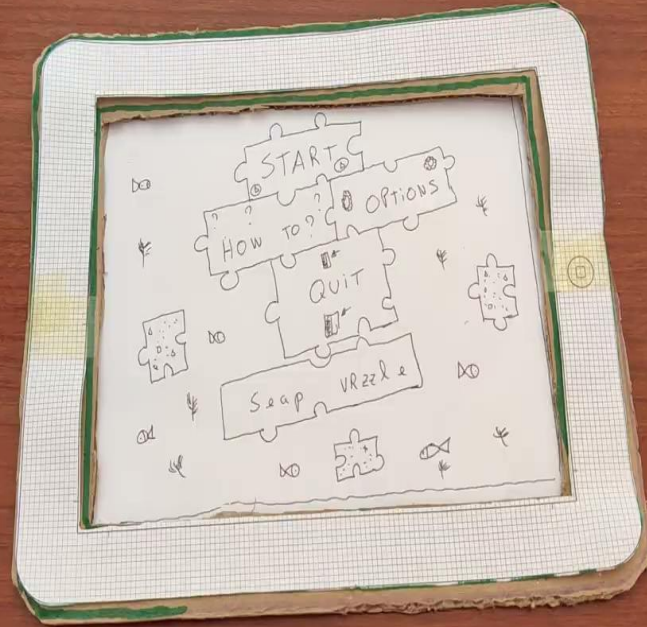




SEAPVRZZLE

# Design and Prototyping

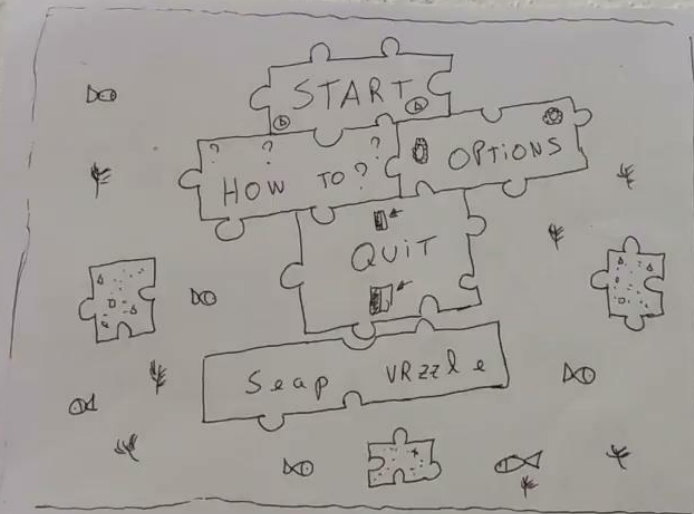
# PAPER PROTOTYPING



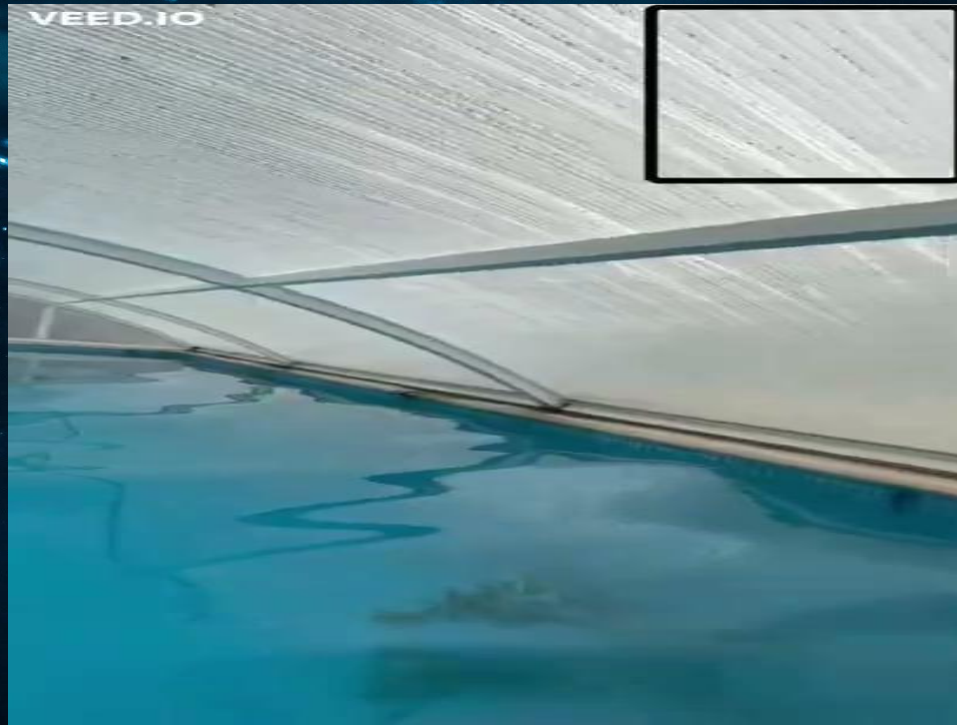


# PAPER PROTOTYPING

VEED.IO



# ENVIRONMENT PROTOTYPE - SIMULATION



# WHAT WE LEARNED

- Since the environment is somewhat unknown to the user (underwater + immersive VR experience), some kind of help must be provided - i.e. tips, tutorials..
- Some linearity for the act of finding the puzzle pieces should be added for the user to not get lost and confused.
- The movement rate may be adequate to the user physical capacities (i.e. move more with less effort - sensitivity).



# CHALLENGES

- Find and familiarize with a tool that efficiently allows the creation of VR games - Unity.
- Get a free Unity asset package to model the environment - UnderwaterFX+ ?
- Find a Unity asset package that allows the transformation of a given image to a puzzle - Unity Jigsaw Puzzle.
- Recreate the swimming movement with realism.
- Articulate the VR controllers/headset with the game.



# DIGITAL DEMO - MENU

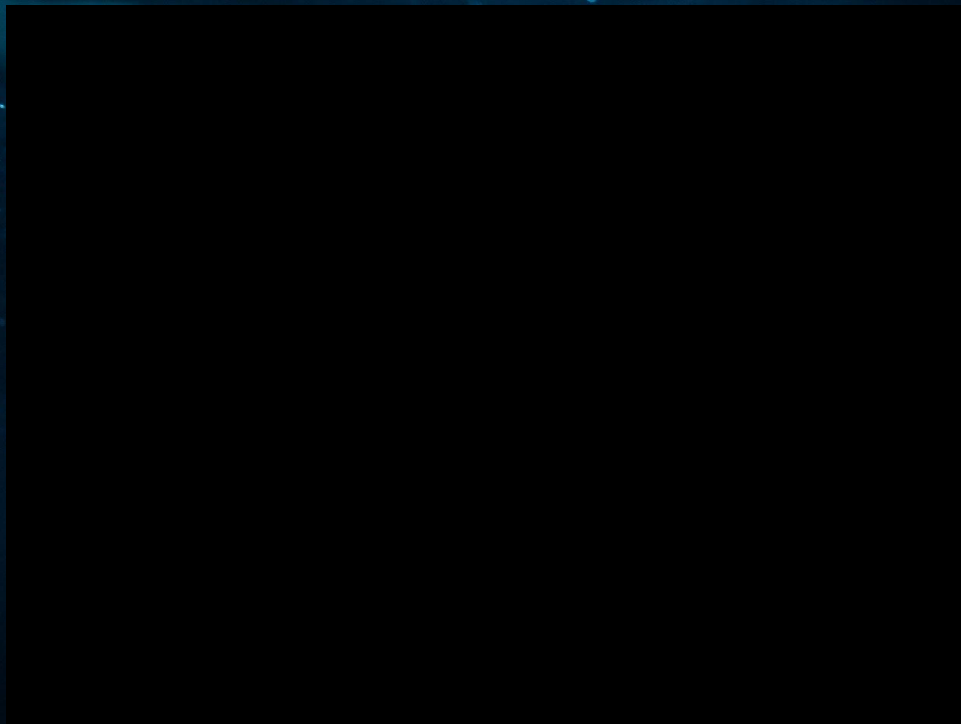


# DIGITAL DEMO - IN-GAME ENVIRONMENT





# DIGITAL DEMO - IN-GAME ENVIRONMENT



# DEVELOPMENT STATE

- Underwater environment.



- FPS controller.



- Base menu.



Still a ton of work to do...

# DEVELOPMENT PLAN

- Support for hands' controllers tracking motion (VR controllers).
- Make movement through the environment water smooth as in swimming.
- Random scattering of pieces of the chosen puzzle through the environment.
- Progress in puzzle as pieces are found.
- Enrich environment.
- Improve menus and add their functionalities, adjusting to the first paper prototypes, in order to be more visually appealing and user-friendly.
- Supportive messages in our interfaces for user experience - tips.
- Puzzle timer.



**Priority** ↑↑↑