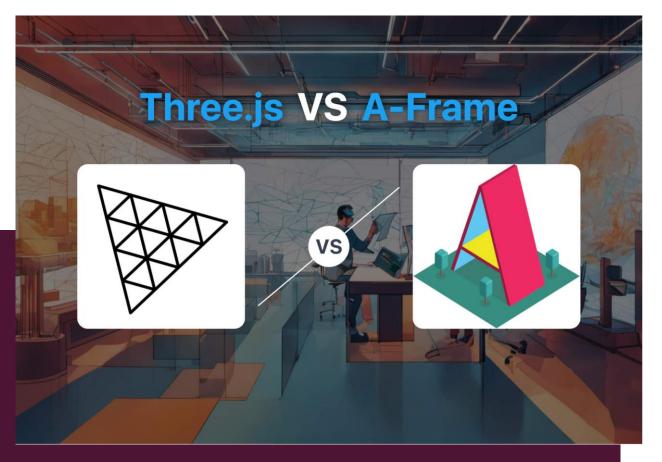
# WEBVR APPLICATION USING A-FRAME

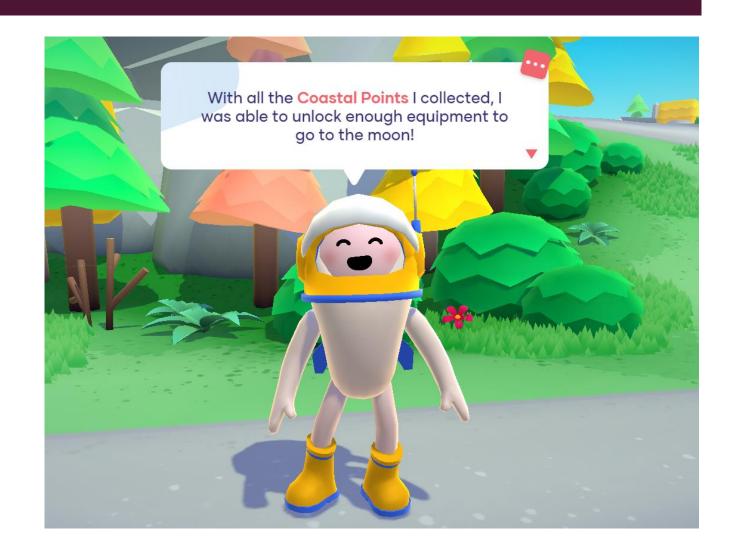
**ASSIGNMENT I - INDIVIDUAL** 



**A-Frame** is an open-source framework that uses Three.js in its implementation

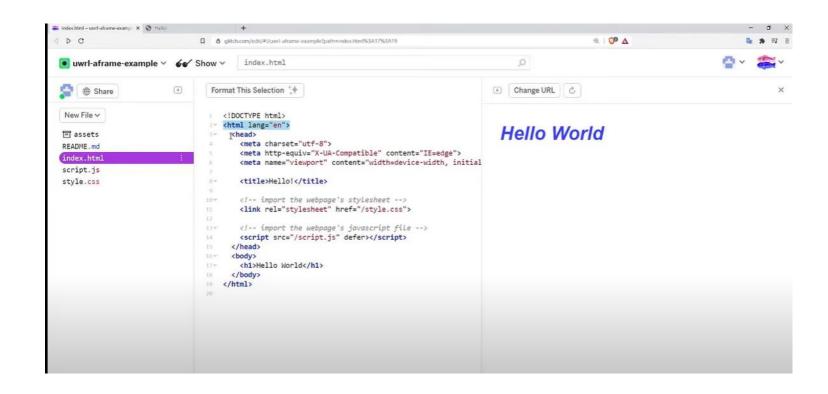
# **EXPLORE & EXPERIENCE**

- https://coastalworld.com/
- Click Coastalworld and play it around
- Are you aware you are now on a Web Browser and playing around with 3D worldview?
- Let's explore how to make senseVR on a web browser



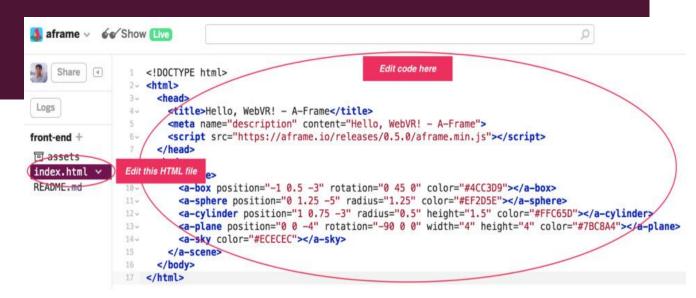
# I) USING GLITCH.COM AND A-FRAME

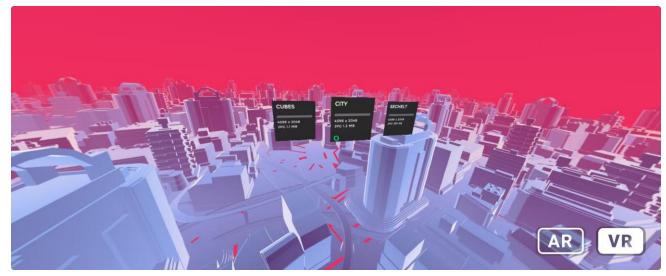
- You can use the Glitch editor
  - https://www.youtube.com/watch?v=k nzmsl2rLpg&list=PL8bmgwX9eBPG GOCQbGPw9VKWQfYyGZNPr&in dex=2
- Or more guide about editor
  - https://www.youtube.com/watch?v=-Q\_FIByQUAI&list=PLP3KjR1TMw7e kqC4o5gy0rR4odw7Jga84
- If you want to use localhost
  - https://www.youtube.com/watch?v= K IRdCVuu98
- Load gITF models in A-Frame
  - https://www.youtube.com/watch?v=e qiH5 CZDO0
  - You can download model and animated your model using Mixamo



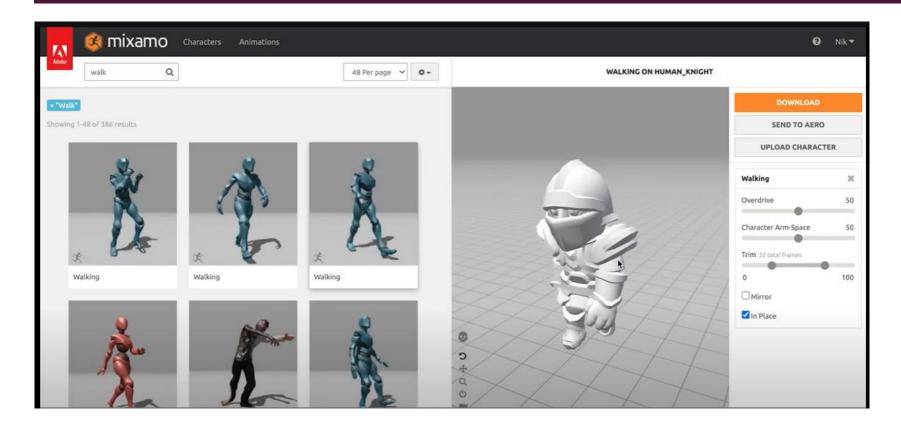
### **GUIDELINES**

- Do not need UNITY game engine, this is web-based applications
- A-Frame is an open-source framework that uses Three.js in its implementation, and you can manipulate it using JavaScript just like other web applications. In A-Frame, you can write cross-platform VR apps that users on multiple device types can access
  - https://aframe.io/docs/1.2.0/introduction/
- What is glitch? Glitch provides an online code editor. The editor supports both front-end and back-end code as well as multiple files and directories. Glitch lets us remix (i.e., copy) existing projects and make them our own and instantly host and deploy changes for everyone to
  - https://glitch.com/edit/#!/aframe?path=index.html%3A1 %3A0





# 2) ANIMATED YOUR CHARACTER WITH MIXAMO



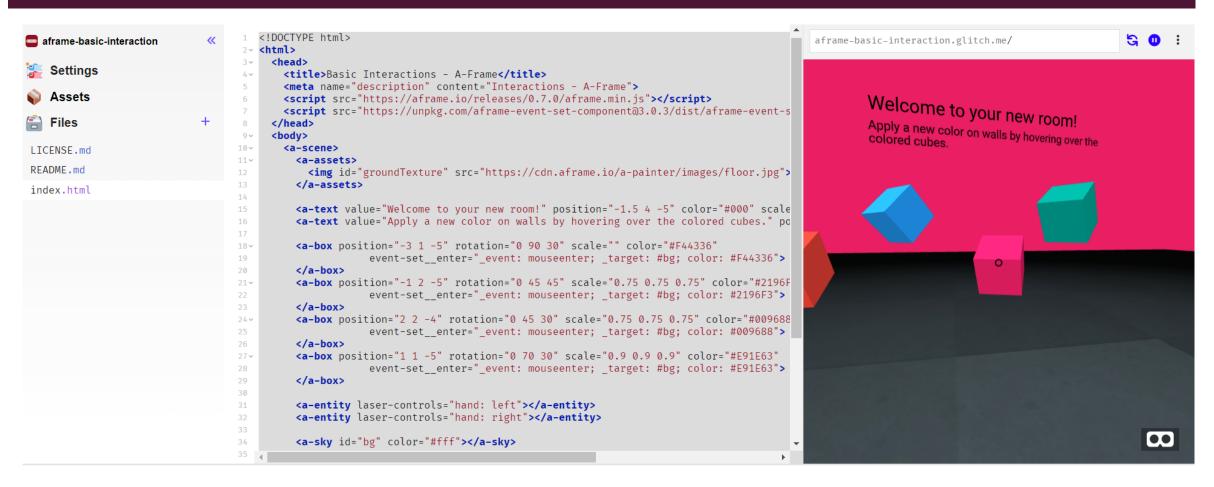
#### https://www.mixamo.com/

You can download a free model online and animate the model using Mixamo. Mixamo is an additional step not a part of A-frame, it is to find your 3D assets.

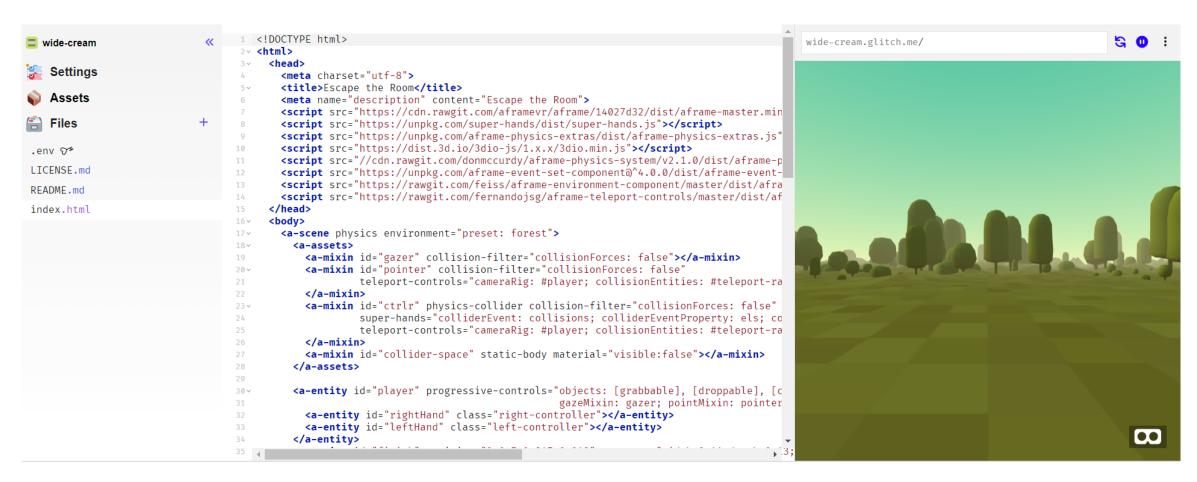
## INDIVIDUAL ASSIGNMENT EXPECTED OUTPUT

- Explore A-FRAME to build a simple VR scene with a character animation
- Explore Mixamo to animate your character
- You can use A-frame with Glitch or any your preference editor
- Below are a few other A-Frame Glitches for starters:
  - aframe-aincraft Minecraft demo.
  - <u>aframe-gallery</u> 360° image gallery.
  - <u>aframe-registry</u> Showcase of various components.
  - <u>aframe-vaporwave</u> Retro-futuristic scene.
  - <u>networked-aframe</u> Multiuser.
- <a href="https://github.com/aframevr/aframe">https://github.com/aframevr/aframe</a>
- A-Frame Assets <a href="https://github.com/aframevr/assets">https://github.com/aframevr/assets</a>

# BASIC INTERACTION EXAMPLE INVR



## ESCAPE ROOM EXAMPLE IN VR



# **SUBMISSION**

- You are required to submit three deliverables
  - A demo reel not exceeding 3 minutes. You can upload the video using a shared link or YouTube link (set it as an unlisted video) but make sure the link is not broken or missing link.
  - One-page report your reflection and how you fulfill this assignment. State in your report your name and matric number. Provide your YouTube link (your demo reel) in the report. Report submitted in PDF format and cannot exceed one page.
  - Live demo link I can click your link and play your apps
- Submit the 3 deliverables to my ymail <u>ajunewanis@ymail.com</u> do not need to cc my utm email.
- To complete the assignment submission on Edredo you just required to upload the report (pdf)

