

3D Virtual Museum Design and Navigation

Simulating the Chinese Heritage Centre of NTU

The idea of creating a VR gallery or museum that enables the user to take a non-restrictive virtual tour. An interactive 3D VR world of the Chinese Heritage Centre of NTU.

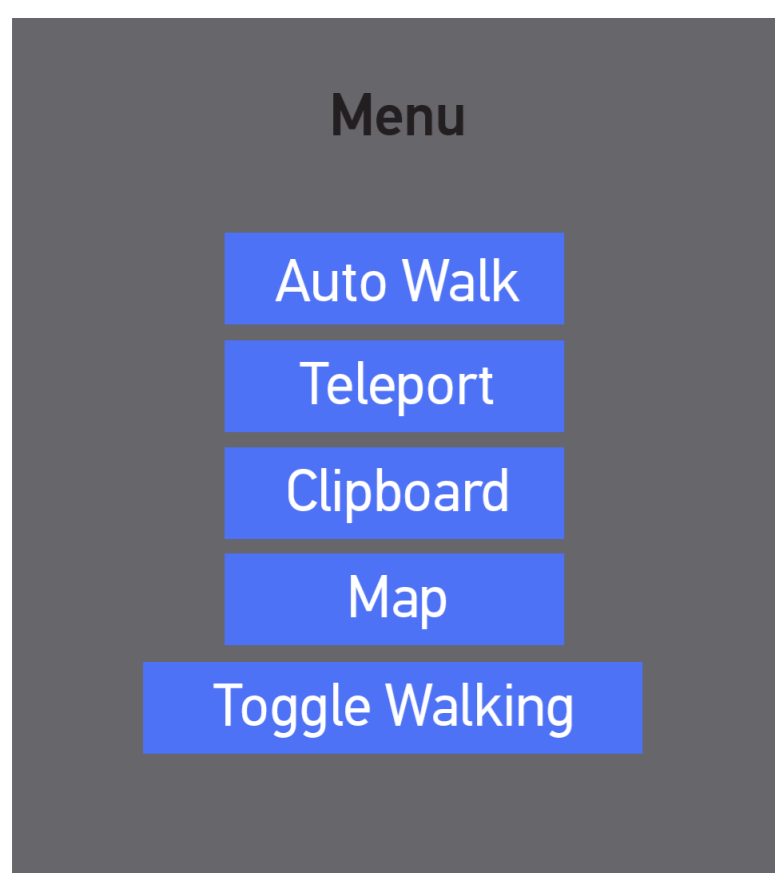
Technology: HTC VIVE

Software: Unity 3D & SteamVR

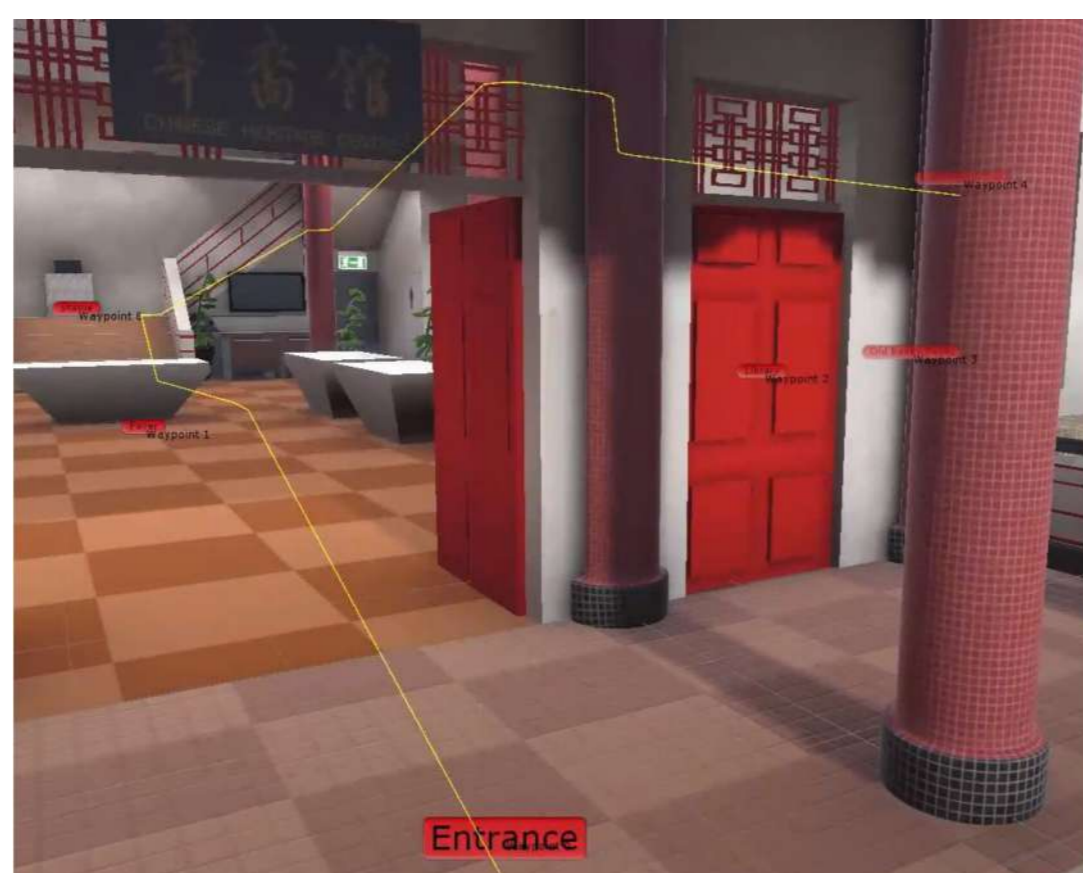
Algorithm Involved: A* Pathfinding



Pop-up Menu



Pathfinding Algorithm



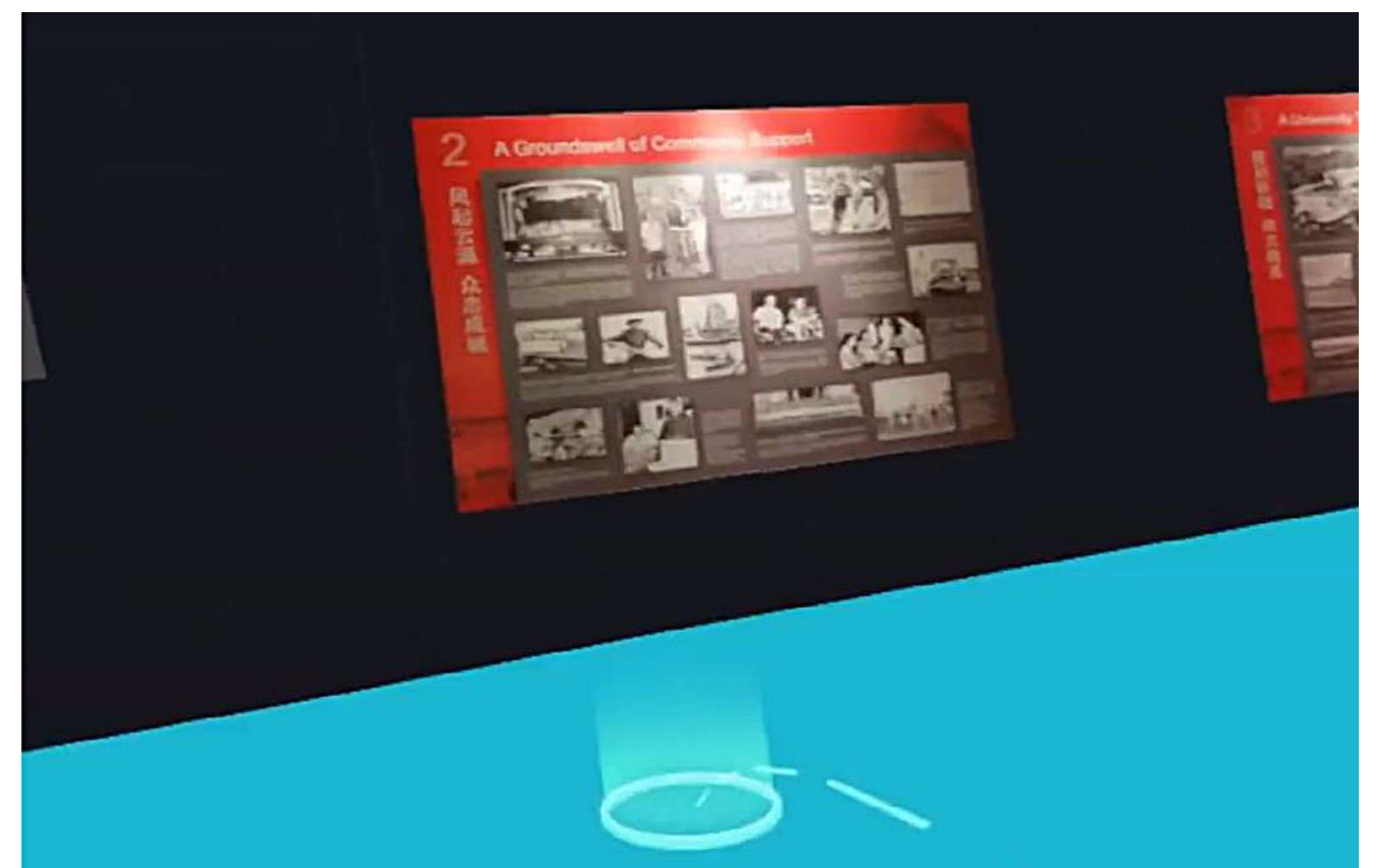
Mini-map Feature



Interactive & Voice Enabled Exhibits



Movement By Teleportation



A virtual museum that is not limited by time or space constraint. Able to operate 24/7 round the clock with no or minimum cost. Users will be able to navigate the museum by using a HTC VIVE to take a self-guided virtual tour in the Chinese Heritage Centre in NTU. Making exhibits interactive to enhance the user's virtual visitation in the Chinese Heritage Centre in NTU.