

VR-Tour Prototype report

Jengraimukh Village, Majuli Island



User group-wise prototypes Implementations & Justification



Links : (Ctrl+Click/Right Click)

- Folder
<https://drive.google.com/drive/folders/1hBrbVpZpgRpsan8MEHRI-uXS-P9YqPst?usp=sharing>
- Prototype(Figma) -
<https://www.figma.com/file/UTzza6VUg90z1ElklvN8b0/Final?node-id=0%3A1&t=NzATvgHinD6BACD7-1>
- Prototype Evaluation Report-
https://drive.google.com/file/d/1IRPFBc0Xa9E2nE27fSiCjJVZ7ERH-B01/view?usp=share_link
- Video Demonstration (Figma):-
 - General Features:-
https://drive.google.com/file/d/1BT3aGDATfgXvMUUgXuwO2i9DxDxDT8gDX9/view?usp=share_link
 - Student/Researchers Prototype:-
https://drive.google.com/file/d/1tkXx3lJAok91zMfCPPeII1tMQewwn3m5/view?usp=share_link
 - Cultural Enthusiasts & Tourists Prototype:-
https://drive.google.com/file/d/1twzPs9xZx2qu9Zbu_Adj8gMI816VZLEy/view?usp=share_link
 - Senior Citizens Prototype:-
https://drive.google.com/file/d/181T827VeOw4rUIJUe5RIPuRXH2bKvibF/view?usp=share_link
- Video Demonstration 2(Unity- Some implementations done high-fidelity wise)
 - Shot 1:
https://drive.google.com/file/d/1blmMxEe0IxUUDFdaCLlhQQy12KJwEEKV/view?usp=share_link
 - Shot 2:
https://drive.google.com/file/d/1J3JuQr-6hoyUROzmWlE0NFG2p5HuzHMR/view?usp=share_link

1. General - Map functionality

- **Non-trivial:** This function isn't trivial as it is a particular function not given in some other VR tours. We implement this function to give a broader view of the model and the user position. This has been implemented by using a minimap in the bottom right corner, which, when clicked, gives the user an enlarged map, further allowing teleportation and giving an overview of the cultural hotspots.
- **Frequent:** This feature is bound to be used extensively by all users. A mapping functionality gives a sense of direction and is the cornerstone for wayfinding and travel/navigation. Teleportation feature starts to get used more frequently as a user gets used to the nature of the tour and the world surrounding them.

2. Student & Researchers - InfoBoxes

- **Non-trivial:** This function isn't trivial as it is an **additional function** that helps users learn more about Majuli island & Jengraimukh Village. Students and researchers especially would want to learn more about the place they visit, which is easily possible by clicking on the **P.O.I. (Point Of Interest) icon**. They can see more images, information, and audio information by clicking on the same - this **involves creating necessary containers, outlays, and components for the same making it a non-trivial function**.
- **Frequent:** This function will be extensively used by any student/researcher who might want to learn more features about the place they visit and is expected to be **used to a great extent in cases of students or researchers** taking a virtual excursion of the place to gather information about it.

3. Senior Citizens - Limited Infoboxes with Narrator options

- **Non-trivial:** This function isn't trivial as it is a **unique function** that helps senior citizens and the disabled learn more about Majuli island & Jengraimukh Village. They can easily **access this information by clicking on the info box icon**, which has also been made more prominent. They can see more images, limited information written in **high contrast colors and larger font size**, and **audio information** by clicking on the same. This involves **creating necessary containers, outlays, and components as well as the functionality for a text-to-speech narrator option** for the same making it a non-trivial function.
- **Frequent:** This function will be extensively used by any senior citizen/disabled person who might want to learn more features about the place they visit. It is expected to be used to a great extent in cases of senior citizens or the disabled taking a virtual excursion of the place to have a leisure stroll and a relaxing experience. Also, **high-contrast colors make it easy for a visually impaired person** or a senior citizen to view certain information. **And audio support eases the experience for an auditory-impaired person.**

4. Cultural Enthusiasts & Tourists - Video & Gameplay

- **Non-trivial:** A gameplay feature is unique as it allows cultural enthusiasts, among other people, to have an **idea of the culture** through a simulated hands-on experience. Integrating **this interaction and ensuring a smooth gaming experience** is crucial and requires deep thinking, brainstorming, and **continuous user feedback & evaluation** to implement. Video icons allow accessing a video for the related cultural activity which gives a more appealing experience to the user, **implementing this requires ensuring control features and easy access to the video.**
- **Frequent:** Cultural Enthusiasts unaware of certain cultural activities and day-to-day activities specific to the village may use these features repeatedly as they may be **very user-engaging** and may **engage one's cognitive and perceptive abilities a lot**. This gives an **extended reality experience** to the user and allows him to sense this virtual world to a great extent.

5. Cultural Enthusiasts & Tourists - Calendar

- **Non-trivial:** This function is not trivial; it is quite an innovative idea as most VR tours do not cater to such needs and exclude informative connections to a real-world scenario. The users access the calendar through a special calendar icon which launches this feature.
- **Frequent:** This function will be extensively used by any tourist who might want to learn more about all the important festival and event dates and may in turn want to plan a trip to the actual village/island based on one of these dates. The feature would be used extensively by tourists as it helps the users to learn about all the vital festivasl and event dates of Majuli island & Jengraimukh Village.

A full cognitive walkthrough has been done for our prototype evaluation. Kindly find the necessary document in the link.

THANK YOU

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