



SPORTS, YOUTH & CULTURE
ACTIVITIES DEPARTMENT
PID120

METAMUSEUM

FOR
GUJARAT
CULTURE & HERITAGE

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Abstract

Cultural Heritage, both tangible and intangible, represents value systems, beliefs, traditions and lifestyles of one society which is being transmitted from one generation to another. Development of Information and Communication Technologies has affected multidisciplinary work on management, protection and promotion of cultural heritage, as well as how it should be taught and used as a touristic product. Exploring the diversity of religious tourists' practices within the Indian Orthodox context, two dimensions underpinning religious tourist experience are highlighted: institutional performances and unconventional performances. Focusing on the embodied experience and drawing upon experiences of performance,

The aim of this project is to build a platform for Gujarat Museums & Heritage to experience immersive VR in metaverse which enables tourists/consumers as the users to access VR content on demand in metaverse which can be access from anywhere and anytime. It will be the world's first VR Artisans Platform which provides vendors to surf as well as creator can upload there immersive 3D content related to products, not only 360 graphics but also audio and other 3D models which creates 3D world in which user can interact and walkthrough with the 3D models & Museums.

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Scope






01

Past Surveys

Surveys and Stats of Existing Systems



Existing 360 Video Statistics (Editor's Choice)

- Visitors number dropped by **77%** at museum over last 2 years in the world.
- Customers aged **18 to 34** are **130%** more likely to book a place if there is an immersive experience.
- **50%** of adult users on the internet rely on virtual tours in their research and decision-making process.
- Customers spend **5 to 10 times** more on websites with VR experience.
- There are more than **5 million** visits daily on worldwide in VR.
- VR increase a business listing's interest by **two-fold**.

More Info:

<https://fortune.com/2022/04/28/museums-history-gamification-nfts-metaverse-tech-art-yizan-he/>

<https://digitalintheround.com/virtual-tour-statistics/>

<https://www.fortunebusinessinsights.com/industry-reports/virtual-reality-market-101378>



Buyer persona

Gender



65%



35%

Interests



Music



Social media



Computers

Ages

10% 12-16 Year old

60% 16-25 Year old

20% 25-35 Year old

10% 35-45 Year old

Location

Big city 4/10

Small city 4/10

Rural 2/10

A picture is worth a thousand words
but
a 3D model is worth a thousand pictures.



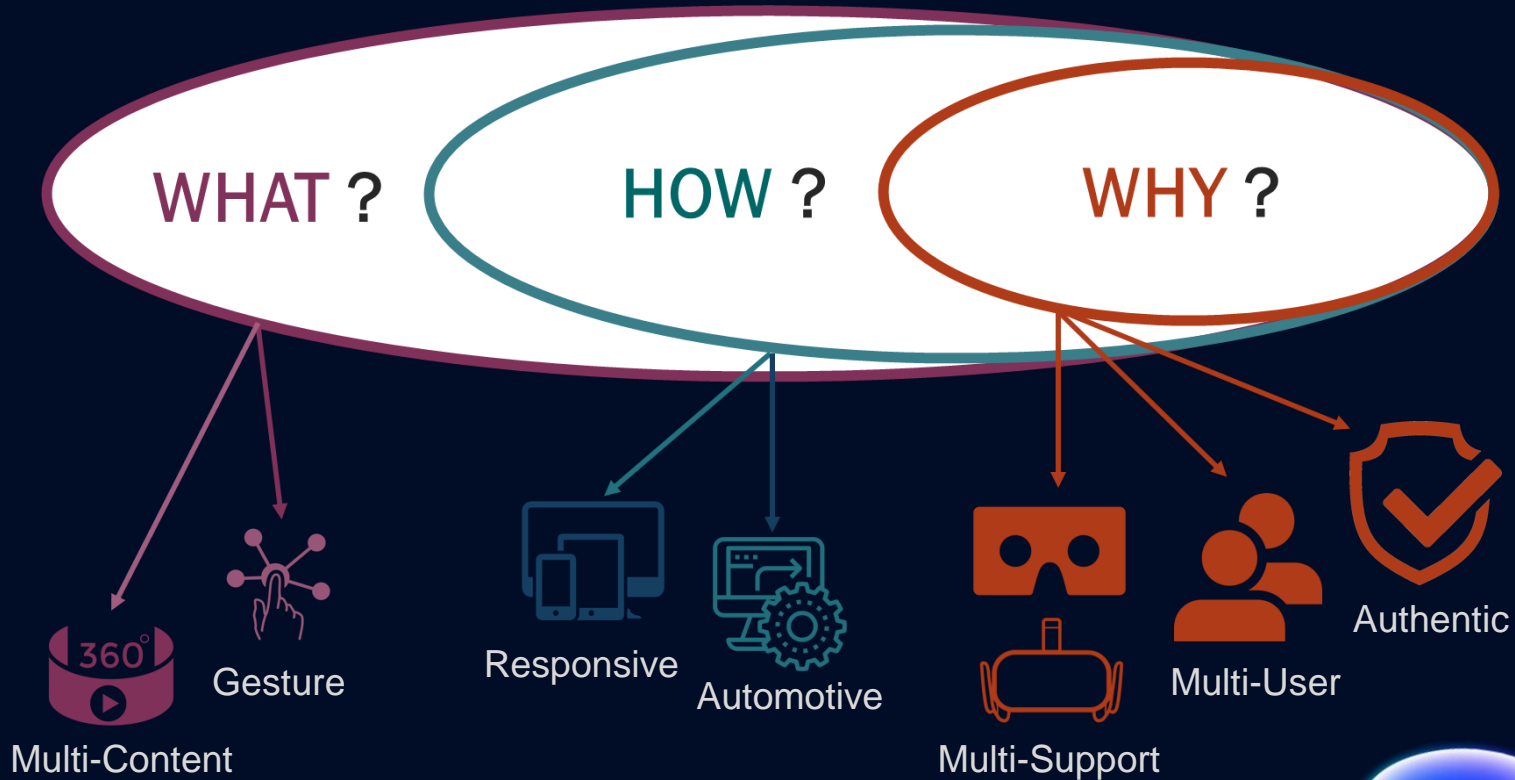


02

Approaches

Approaches to solve Problem

Purpose and Approach





03

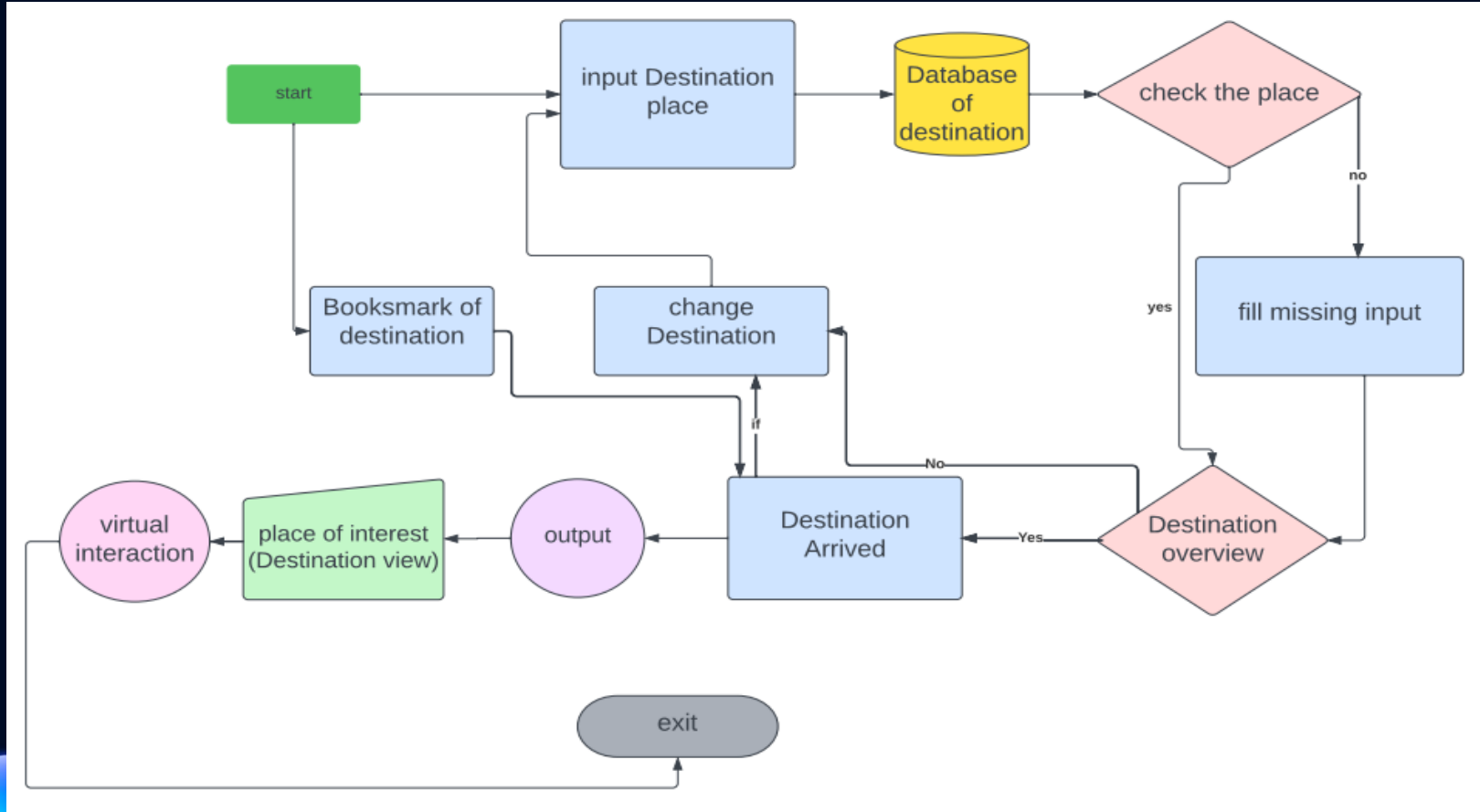
PROPOSITION

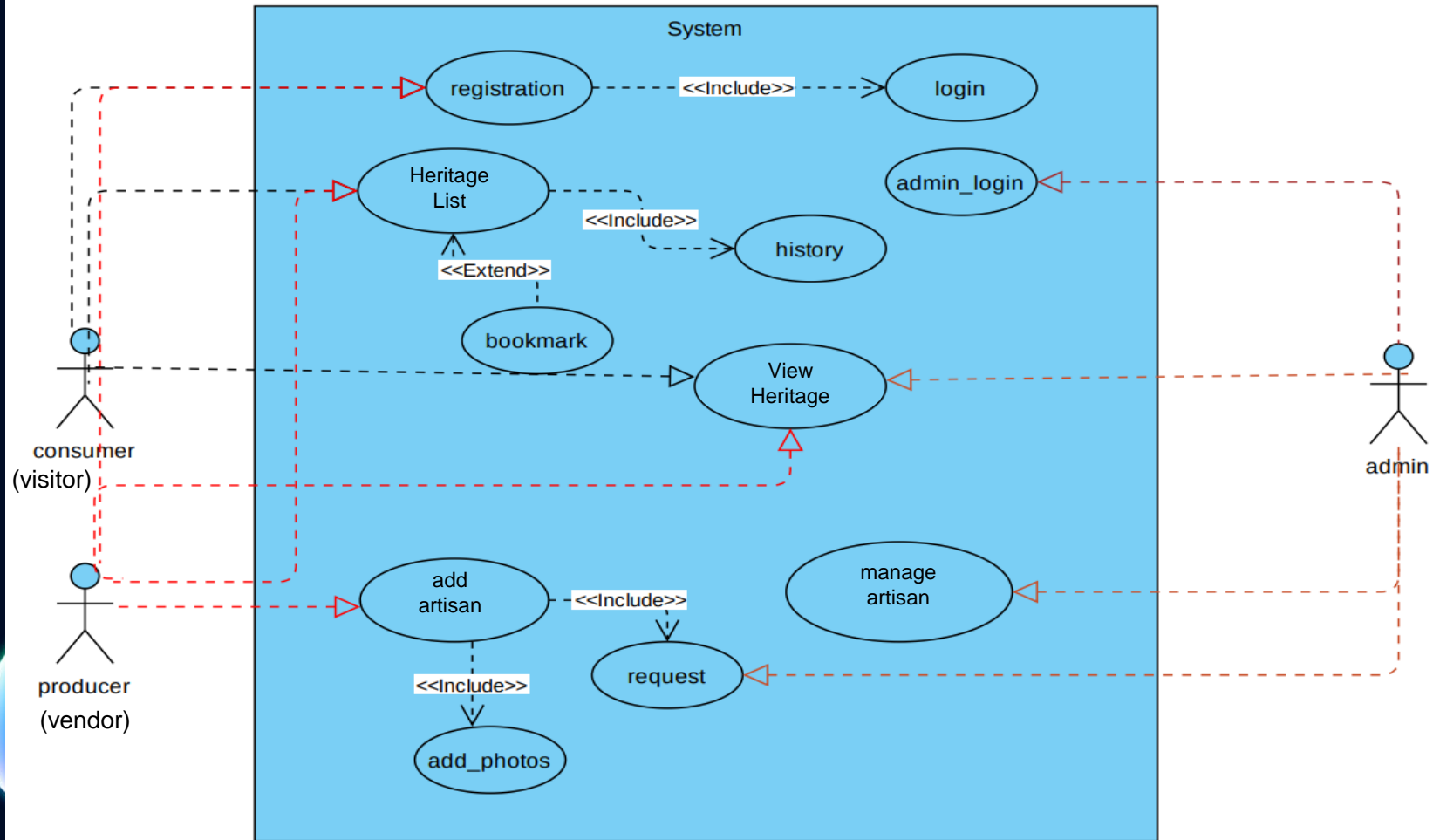
Our Proposed System for Problem & Innovation

IDEA & SOLUTION :

- We will not only take disabled/old devotees but also devotees outside from Gujarat too those who are not available to visit Gujarat.
- We will create whole ecosystem of museum/artisans with its own realistic 360 VR space with spatial audio for best user experience of its monuments and also input gestures and most sophisticated interface which makes users immersive experience to exploration.
- We will able to create & develop interests of youth of age group from 18-60 years, towards heritage and this can give them access to new technology with our cultural knowledge of Gujarat tradition, deities & history.
- Approaches for innovative features like a View in 3D Space, Navigation from current location, Save Now View Later, Authenticity, Security (PIN System), Immersive Historical Events Experiences, Live Events near or in Museum/Heritages.

Process Flow Diagram



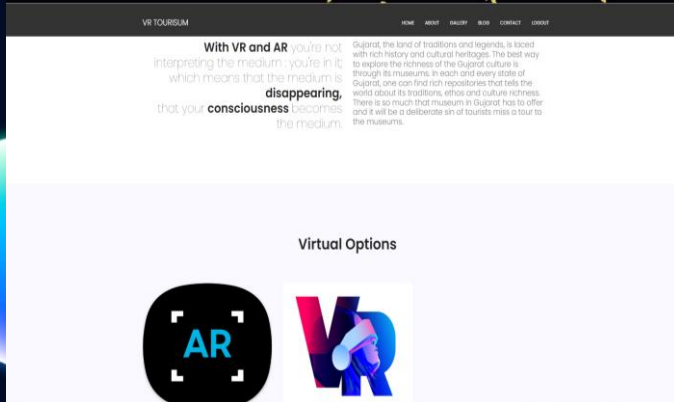


Some Snaps:

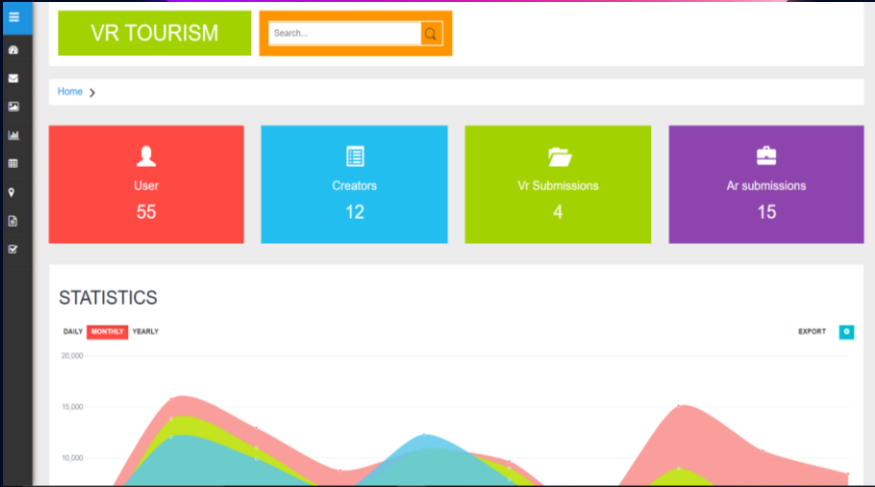
Home Page



Gallery Page (360 Gallery Viewer)



Heritage Page:
Visitor can view 3D model in AR VR according to their device supports.



Admin Panel:
Can Lookup & Edit and Verify the Entries of Vendors and Visitors.

Creator/Vendor Page
(Can Upload Artisans or product 3D model)

The Creator/Vendor Page form for VR TOURISM includes a search bar and a sidebar menu with options: Dashboard, Inbox, Gallery, Charts, Tables, Maps, Pages, and Forms. The main form fields are: Product Name (text input), Products Type (dropdown menu with options: ARTISAN, ARTISAN ORNAMENTS, STATUE, HOME DECORATES), Product File (Choose File button, No file chosen), and Product Details (text area). SUBMIT and RESET buttons are at the bottom.



04

OUTCOMES

Possible Growth and Outcomes

ENJOYMENT + INVOLVEMENT

MOST AUTHENTIC INFORMATION

ENTERTAINMENT + EDUCATION

PUBLIC AWARENESS IN VR

CONSUMER QUALITY EXPERIENCE

SERVICE QUALITY






05

TOOLS

Technologies and Tools been used



HTML

CSS

- CSS3
- SASS
- BOOTSTRAP

PHP-MYSQL

JAVASCRIPT

- AFRAME
- THREE.JS
- JQUERY

UNITY 3D + WEBGL

- C# Scripting
- 3D Models (Autodesk, Blender)
- Spatial Sound Audacity



06

CHALLENGES

Limitations and Challenges to be faced

Main problems



Affordability

Affordable for Heavy Data to maintain and Complex Big Web System



Lacks options

Not very much options available to develop as it is developing technology

Complex technology



File size

Database to store & process
big files



Video quality

Video and Image quality of
360 / 3D contents



Resolution

Responsive to display in
different resolution



space

Storage Space to store and
host



Future Scope

Future Scope and Conclusions

HERITAGE IN METAVERSE

AI BOT TOUR GUIDE

ECOMMERCE METAVERSE

TRYON & CUSTOM ORDER



Our team

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Thanks!

