

CineVerse

Where Cinema Meets You.



Team Details (Name, Roll no, Group no.)

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Problem statement

Designing a seamless and **immersive experience** for users to **select, stream, and watch movies** within the virtual cinema hall poses challenges in optimizing streaming quality, **synchronizing multiple user experiences**, **ensuring platform**

accessibility across devices, and fostering a **social, interactive environment for shared movie viewing** alongside **customizable virtual sets for live performances** introduces intricate challenges. Addressing these complexities while maintaining user engagement and satisfaction remains a pivotal challenge in the development and implementation of the metaverse cinema hall for **both movie enthusiasts and performers alike**.

Design

Metaverse Structure

The metaverse comprises two primary components: the Virtual Cinema Hall and the Dynamic Performance Sets. The Virtual Cinema Hall serves as a central hub for shared movie viewing experiences, while the Dynamic Performance Sets offer actors and performers customizable environments for live interactions and entertainment.

User Experience Design

User experience is paramount in our design. The journey within the metaverse, provides easy navigation to the Virtual Cinema Hall and the Dynamic Performance Sets. Within the cinema hall, users can select movies, interact with friends via gestures, and synchronize their movie-watching experience.

Tool used

Hiber3d

Node.js

NPM

React

```
"dependencies": {  
  "@hiber3d/hdk-cli": "^0.5.8",  
  "@hiber3d/hdk-core": "^0.14.10",
```

```
    "@hiber3d/hdk-react": "^0.9.30",
    "@hiber3d/hdk-react-components": "^0.9.48",
    "@hiber3d/hdk-utils": "^0.4.68"
}
```

Code link and instructions for execution

<https://github.com/premranjn/NITTroCineverse.git>

Demo

[https://drive.google.com/file/d/1ZAFole8NDmB_lv_ocJpaiWePxKjFozXd/view?
usp=sharing](https://drive.google.com/file/d/1ZAFole8NDmB_lv_ocJpaiWePxKjFozXd/view?usp=sharing)

CineVerse - README

Overview

This repository contains the codebase for our AR/VR Metaverse project. The metaverse incorporates a virtual cinema hall, customizable sets for live performances, and social interaction features for an immersive entertainment experience.

Setup Instructions

Prerequisites

Ensure you have Node.js and npm installed on your system.

Installation

1. Clone this repository to your local machine using:

```
bashCopy code
git clone <repository_URL>
```

2. Navigate to the project directory:

```
bashCopy code  
cd <project_directory>
```

3. Install dependencies:

```
Copy code  
npm install
```

Running the Metaverse

1. Once the dependencies are installed, run the following command to start the metaverse:

```
npm run dev
```

2. Open your browser and enter the following URL:

```
http://localhost:7543
```

3. Explore the metaverse! You should now be able to interact with the virtual cinema hall and access customizable sets for live performances.

Screenshots







How it is different from the existing App? As of now

The uniqueness of this AR/VR metaverse lies in its comprehensive **integration of a virtual cinema hall and customizable virtual sets for live performances**, fostering a shared and immersive entertainment experience. While **existing apps might offer streaming services** or virtual social spaces, the convergence of movie streaming, synchronized social viewing in a cinema hall setting, and live

performances within customizable virtual sets distinguishes this metaverse from conventional applications. Its blend of entertainment, **social interaction**, and **live performance opportunities** within a single platform is a distinguishing feature not commonly found in existing apps.

- Contribution of each member of the team

The whole work was divided into 3 group:

Ambience

Avatars

CineVerse

Aryam Man: Creates all the **sets** and worked on the **Ambience** of the whole World as well as environment including material texture of the prefabricates.

Purav Shah: Created all the **Avatar** and custom **animated** each of them to perform desired actions and animation like Dancing, Walking, Cheering conversating in groups etc.

Prem Ranjan: **Ideated** the project, divided works amongst us and designed the **CinemaVerse** along with the movie selection panel for the project.
