Netflix House Interactive Experience

A custom interactive video experience for Netflix House locations. This application allows users to interact with aerial video maps of Netflix House locations via hotspots that trigger seamless video sequences.

Features

- Interactive aerial maps with clickable hotspots
- Seamless video sequence playback
- Primary and secondary hotspot types
- Admin panel for content management
- Asset management (videos, buttons, UI elements)
- Hotspot creation with custom polygon shapes
- Video playlist assignment for hotspots
- Responsive design for iPad Pro

Tech Stack

- **Frontend**: React.js
- **Backend**: Node.js with Express
- **Database**: MongoDB
- **Storage**: AWS S3
- **Deployment**: GitHub + Railway.app

Setup Instructions

Prerequisites

- Node.js (v16 or later)
- MongoDB database (Atlas or local)
- AWS S3 bucket for asset storage
- AWS access credentials

Installation

1. Clone the repository:

```
git clone https://github.com/yourusername/netflix-house.git
cd netflix-house
```

2. Set up environment variables:

```
cp .env.example .env
```

Edit the `.env` file with your MongoDB and AWS credentials.

3. Install dependencies:

```
npm run install-all
```

This will install both server and client dependencies.

4. Start the development server:

```
npm run dev
```

This will start both the backend server and the React frontend.

5. Access the application:

- Frontend: http://localhost:3000

- Admin Panel: Press `Ctrl+Shift+A` while on the frontend to access admin mode

Production Deployment

1. Push your code to GitHub.
2. Set up a new project on Railway.app:
   - Connect to your GitHub repository
   - Add the necessary environment variables
3. Railway will automatically build and deploy the application.

Usage

Admin Panel

The admin panel consists of three tabs:

1. **Assets**: Upload and manage video and image assets
   - AERIAL videos (location aerial maps)
   - DiveIn, FloorLevel, ZoomOut videos (sequence videos)
   - Transition videos
   - Buttons, Map Pins, and UI Elements
2. **Hotspots**: Create and manage interactive hotspots
   - Draw polygons directly on the aerial map
   - Set hotspot type (PRIMARY or SECONDARY)
   - Configure information panels for SECONDARY hotspots
3. **Playlists**: Assign video sequences to PRIMARY hotspots
   - Select videos for each stage of the sequence
   - Preview videos before assigning

User Experience

1. Start at the menu screen to select a location
2. View the aerial map of the selected location
3. Interact with hotspots:
   - PRIMARY: Trigger a video sequence
   - SECONDARY: Display information panel
4. Use navigation buttons to switch between locations

Project Structure

```
netflix-house/
├── server/          # Express backend
│   ├── index.js     # Server entry point
│   ├── config/      # Configuration files
│   ├── models/      # MongoDB models
│   ├── routes/      # API routes
│   └── controllers/ # Route controllers
├── client/          # React frontend
│   ├── public/      # Static files
│   └── src/         # React source
│       ├── components/  # React components
│       ├── pages/       # Page components
│       ├── context/     # React contexts
│       ├── utils/       # Utility functions
│       └── styles/      # CSS styles
└── assets/          # Project assets (not served)
```

Accessing the Admin Panel

To access the admin panel, press `Ctrl+Shift+A` while on the frontend. This toggles between the user experience and admin mode.

Important Notes

- This application is designed for Chrome browser on desktop or iPad Pro
- All video assets should be MP4 format with consistent aspect ratios
- Hotspots require at least 3 points to form a valid polygon
- Video sequences must have all three videos assigned for proper playback

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