Overview:

Your task is to **build a multi-page, highly interactive website** called **MemeVerse**, where users can explore, upload, and interact with **memes**. This project will test your **frontend development skills**, including UI/UX, animations, state management, performance optimization, API handling, and advanced React techniques.

Project Requirements

1. Features & Functionalities

1. **Homepage (Landing Page)**

   - Display trending memes dynamically (Fetched from an API).
   - Interactive animations & transitions.
   - Dark mode toggle.

2. **Meme Explorer Page**

   - Infinite scrolling or pagination.
   - Meme categories filter (Trending, New, Classic, Random).
   - Search functionality with debounced API calls.
   - Sort by likes, date, or comments.

3. **Meme Upload Page**

   - Upload memes (image/gif format).
   - Add funny captions using a text editor.
   - Option to generate AI-based meme captions (Use a meme-related API).
   - Preview before uploading.

4. **Meme Details Page**

   - Dynamic routing (`/meme/:id`).
   - Display meme details, likes, comments, and sharing options.
   - Comment system (Local storage for now).
   - Like buttons with animation and local storage persistence.

5. **User Profile Page**

   - Shows user-uploaded memes.
   - Edit profile info (Name, Bio, Profile Picture).
   - View liked memes (saved in local storage or API).

6. **Leaderboard Page**

   - Top 10 most liked memes.
   - User rankings based on engagement.

7. **404 Page (Easter Egg)**

   - A fun, meme-based 404 error page when users visit a non-existent route.

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2. Tech Stack

- **Next.js/React (Pages & App Router)**
- **React (Hooks & Components)**
- **Tailwind CSS (For Styling)**
- **Framer Motion / GSAP (For Animations)**
- **Redux Toolkit / Context API (State Management)**
- **Local Storage / IndexedDB (For Caching Data)**
- **Meme APIs (For Fetching Memes)**
- **Cloudinary / Firebase (For Image Uploads)**
- **Lighthouse / React Profiler (For Performance Optimization)**

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3. Free APIs for Use

Meme APIs

- **Imgflip API** - Generate and fetch popular memes ([Docs](#))
- **Meme Generator API** - Create memes dynamically ([Docs](#))

Image Upload & Storage APIs

- **ImgBB API** - Free image hosting for meme uploads ([Docs](#))

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4. Skills Tested

✅ **UI/UX Design:** Aesthetically pleasing and user-friendly layout.
✅ **Animations:** Smooth transitions, page loads, and UI feedback.
✅ **State Management:** Efficient use of Redux Toolkit or Context API.
✅ **API Handling:** Efficient API calls with caching and loading states.

✅ **Performance Optimization:** Lazy loading, image optimization, code splitting.
✅ **DOM Manipulation:** Interactive meme editing experience.
✅ **Dark Mode:** System-based preference and toggle.
✅ **Client-side vs Server-side Rendering:** Choose wisely for SEO and performance.
✅ **Accessibility & Responsiveness:** Mobile-first, accessible for all users.

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5. Evaluation Criteria

Category	Points
UI/UX & Animations	20
Functionality & Features	20
API Handling & State Management	15
Performance Optimization	15
Code Structure & Best Practices	10
Mobile Responsiveness	10
Creativity & Uniqueness	10
Total	**100**

📌 Submission Guidelines

- Deploy your project using **Vercel** or **Netlify**.
- Submit your **GitHub repository** with a README explaining the project.
- Ensure a **demo link** is available.
- Make a **short video** explaining features, tech stack, and optimizations.