

1. Project Vision

Viewesta is a African-based digital platform dedicated to promoting African movies to a global audience. Its mission is to empower individual filmmakers, helping them grow into the next generation of storytellers while developing and elevating African cinema to world-class standards. Through accessible technology and fair exposure, Viewesta bridges the gap between local creators and international viewers, showcasing Africa's diverse stories, talent, and culture.

2. Detailed Core Features

for viewers

- ✗ **Browse and Watch African Movies:** - Users can explore a large catalog of African films by genre, country, director, or trending titles. - Advanced search filters: release year, rating, popularity, language, and country. - Preview trailers before deciding to watch.
- ✗ **Flexible Access Models:**
 - **TVOD (Transactional Video on Demand):** Buy individual movies and keep access for 7 days. Price varies depending on quality (480p, 720p, 1080p, 4K).
 - **Subscription Model:** Pay monthly or yearly for unlimited access. Subscribers can watch any movie in any quality without extra charges.
 - **Spend- Per-Deposit System:** Users deposit an amount into their wallet. Each movie watched deducts a fee depending on selected quality. When balance finishes, premium access locks until top-up.
- ✗ **User Accounts & Profiles:** - Account creation using email, phone number, or social login (Google/Facebook). - Personalized watchlists, favorites, and viewing history. - Option to follow favorite filmmakers or genres.
- ✗ **Movie Interaction:** - Rate movies on a scale of 1–5 stars. - Write and read reviews. - Share movies on social media.
- ✗ **Recommendations:** - Personalized recommendations based on viewing history, ratings, and preferences. - Trending and popular movies highlighted on the homepage.
- ✗ **Secure Payments:** - Supports multiple payment methods: mobile money (MTN, Airtel), credit/debit card, wallet deposits. - Instant confirmation of purchases and wallet top-ups.

For Filmmakers

- ✗ **Upload & Manage Movies:** - Upload video files in multiple resolutions (480p → 4K) and assign pricing per quality. - Add title, description, genre, poster, trailer, cast & crew information.

- x **Filmmaker Dashboard:** - Track movie views, earnings, ratings, and user feedback. - Generate weekly/ monthly reports for revenue and audience engagement. - Receive and manage payout requests

For Admins

- ✗ **Movie Moderation:** - Approve or reject uploads based on quality, copyright, and compliance. - Edit metadata, manage categories, and remove inappropriate content.
- ✗ **User & Filmmaker Management:** - Monitor user accounts, activity, and complaints. - Approve filmmaker registrations and manage access.
- ✗ **Payment Management:** - Track all transactions: TVOD purchases, subscriptions, and wallet usage. - Manage payouts to filmmakers.
- ✗ **Content Promotion & Analytics:** - Highlight featured movies or genres on the homepage. - View platform analytics for engagement, revenue, and growth.

3. User Workflows (Step-by-Step)

- Viewer Workflow - Account signup/login via website or mobile app. - Browse movies by categories, trending, or personalized recommendations. - Select movie → choose access model (TVOD, subscription, wallet). - Select desired video quality. - Make payment via mobile money, card, or wallet. - Stream/download movie immediately. - Rate, review, or share the movie.
- Filmmaker Workflow - Sign up as filmmaker. - Upload movies with metadata and select resolutions/ pricing. - Wait for admin approval. - Once approved, movie is published. - Track performance and revenue via dashboard. - Request payouts securely.
- Admin Workflow - Log in to admin dashboard. - Approve filmmaker accounts and movie uploads. - Manage movies, categories, and metadata. - Track users, transactions, and analytics. - Moderate content and enforce compliance. - Highlight featured content.

4. Technical Requirements

- **Frontend (Web):** React.js for responsive, fast, and modern user interface.
- **Mobile App:** React Native (shared codebase, iOS & Android), optional Expo for testing.
- **Backend:** Node.js (Express.js or NestJS) for API, auth, payments, and data management.
- **Database:** MongoDB or PostgreSQL to store users, movies, transactions, subscriptions, analytics.
- **Cloud & Hosting:** AWS services — S3 for storage, EC2/Lambda for backend, CloudFront CDN, Cognito for auth.
- **Payments & Wallet:** Flutterwave and Stripe.

- **Integrations:** Analytics (AWS QuickSight), notifications (Firebase / Web Push), adaptive video streaming (HLS) for multiple resolutions.

5. Non-Functional Requirements

- Security: Encrypted payments, secure auth, GDPR/copyright compliance.
- Scalability: Cloud infrastructure to handle thousands of concurrent users.
- Performance: Smooth video streaming at all qualities.
- UX/UI: Responsive design, easy navigation, accessible features.
- Reliability: Minimal downtime, backup & recovery processes.
- Compliance: Copyright, privacy, and financial regulations adhered.

- ✓ Deliverables & Timeline (1 Week Phase 1)
- ✓ Detailed Requirements Document (this document)
- ✓ Confirmed tech stack and cloud setup
- ✓ User workflows and interaction diagrams

End of Detailed Features & Requirements Document