

## 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.

- × **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