

Bhuban – Master UI, Animation & Full Scale System Architecture

A world class video platform blueprint built on Yellow, Pink & Red energy.

1. Bhuban World – Opening Splash Animation (3–5 Seconds)

Core Concept: A cinematic journey from Creator → Platform → Audience.

Pink Film Strip → Yellow 'B' → Red Live World.

Phase I – The Spark (0.0s–1.0s): Off white background (#FFFDE7). Pink (#F06292) film strip enters with whip pan motion and Elastic Out easing.

Phase II – Brand Manifestation (1.0s–2.2s): Film strip morphs into a liquid trail and pours into a 3D 'B' with squash and stretch physics.

Phase III – Expansion (2.2s–3.5s): Radial ripple clears the splash and reveals the UI beneath with Z axis zoom out.

Specs: 60fps, Cubic Bezier easing, inner pink glow, 3 note ascending earcon.

2. Navigation & Core App Functions

Home: Algorithmic universe feed with single tap scroll to top and double tap refresh.

Bhuban Shorts: Vertical, full screen immersive feed with prefetching for zero latency.

Upload Hub (+): Bottom sheet with Go Live, Upload, Create Short. Icon rotates to X.

3. User Identity & Authentication

OAuth 2.0 + OpenID Connect (Google, Apple, Facebook).

Unified Email as Primary Key system with account linking.

Apple Private Relay support, Refresh Tokens, Passkeys (FaceID/Fingerprint).

GDPR/CCPA compliance with automated data erasure.

4. Video Playback & Interaction Engine

Adaptive HLS streaming from 144p to 8K.

Like animation: Pink to Red heart explosion.

Comments: Nested threads with AI boosted high value replies.

Subscribe: Solid Pink → Transparent Gray with bell icon.

5. Recommendation Algorithm (The Bhuban Brain)

Engagement Score Formula: $E = (V \cdot w1) + (C \cdot w2) + (S \cdot w3) - (D \cdot w4)$.

Bhuban Spike: 100 likes in 10 minutes triggers global trending.

Computer Vision scans brand color aesthetics.

NLP auto captions and 50+ language translation.

6. Creator Studio & Analytics

Realtime Pulse Dashboard using Kafka-based stream processing.

Retention Heatmaps showing spikes and dead zones.

Traffic source funnel: Impressions → CTR → Views.

Built-in A/B Thumbnail Testing with automatic winner selection.

7. Monetization & Payout System

Revenue Split: 55% Creator / 45% Platform.

Net30 payout cycle with \$100 threshold.

Local wallets (bKash, Nagad) + Stripe + Bank transfers.

Automated tax forms (W8BEN / W9) and KYC.

8. Safety, Moderation & Community Health

Multimodal AI moderation (Video, Audio, Metadata).

3Strike enforcement with transparent violation receipts.

Deepfake detection & labeling.

AI 'VibeCheck' to slow toxic comment threads.

9. Infrastructure, Debugging & Self-Healing Systems

Microservices & Microfrontend architecture.

BlueGreen deployments for zero downtime.

Circuit Breakers, AutoScaling, and Automated Rollbacks.

Realtime telemetry with AI error clustering.

10. Pre-Launch WarRoom Checklist

Millionuser spike load testing.

Fraud & bot traffic simulation.

Crossplatform cache and analytics sync verification.

99.99% uptime target.

Final Vision

Bhuban is designed as a creatorfirst, zerofailure ecosystem.

Every pixel, animation, and algorithm serves clarity, trust, and growth.

This document is the single source of truth for design, engineering, and scale.