

THE KAALCHAKRA

(Bilingual Digital News Platform + E-Newspaper System)

1. Project Overview

Project Name: The Kaalchakra

Type: Bilingual Digital News Portal + E-Newspaper

Owner: (Main Owner – Full Control Required)

Website must be structured similar to:

- The Lallantop
- Dainik Bhaskar
- The Hindu

But with modern, fast, and scalable architecture.

2. Technical Architecture (Mandatory)

◆ Frontend

- Next.js (Latest version)
- Responsive (Mobile First Design)

◆ Hosting

- Vercel (Owner email)

◆ Code Repository

- GitHub (Owner email)

◆ Database

- Supabase / MongoDB (Owner control)

◆ Storage

- PDF + Images → Cloud Storage (Owner account)

 All accounts must be created using **Owner's email**.

Developer will be added as collaborator only.

3. Core Features

A. Bilingual System (Hindi + English)

Structure example:

/hindi/politics/article-name

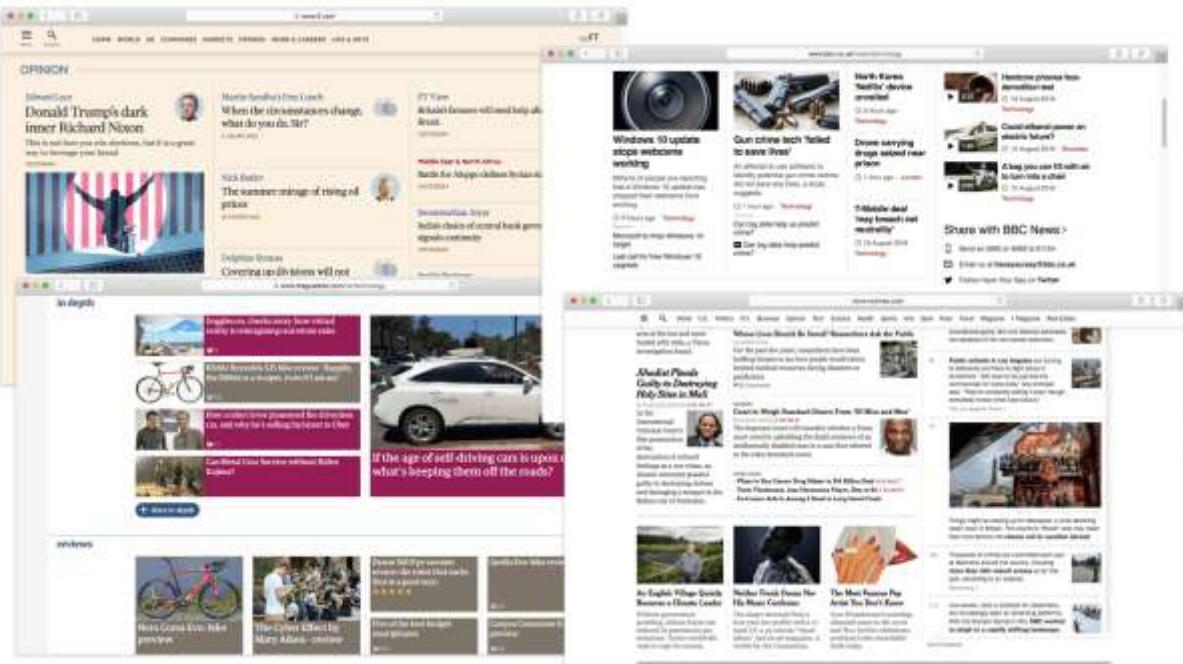
/english/politics/article-name

Features:

- Language toggle button
- Separate SEO for Hindi & English
- Same article can have dual versions

B. Homepage Layout





Homepage Sections:

1. Top Navigation Bar (Categories + Search)
2. Hero Section (Top 4–5 Stories)
3. Latest News Section
4. Category-wise Sections
5. Trending News
6. Video Section
7. E-Paper Highlight Section
8. Footer (About, Contact, Privacy Policy)

✓ C. Role-Based Login System

User Roles:

Role	Access
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Owner Full control

Admin Manage users & categories

Editor Approve articles

Role	Access
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Reporter	Submit drafts only
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Workflow:

Reporter → Editor Approval → Publish

 **D. E-Newspaper (PDF Upload System)**

Features:

- Daily PDF upload option
- Date-wise archive
- Online view (embedded viewer)
- Download button
- Search by date

URL structure:

/epaper/2026-02-21

 **E. SEO & Performance**

- Fast loading (under 2 seconds)
- Clean URL structure
- Meta title & description editable
- Sitemap auto generate
- Google indexing ready
- Schema markup for News

 **F. Security**

- JWT authentication
- Role-based protection
- Admin dashboard protected
- HTTPS mandatory

4. Admin Panel Requirements

Admin dashboard must include:

- Add / Edit / Delete News
 - Add Categories
 - Upload Images
 - Upload PDF
 - Manage Users
 - SEO settings per article
 - Draft & Publish control
 - Analytics overview
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5. Design Requirements

Style reference inspiration from:

- The Lallantop (Bold & engaging)
- Dainik Bhaskar (Clean grid)
- The Hindu (Professional typography)

Design must be:

- Clean
 - Modern
 - Fast
 - Not cluttered
 - Mobile responsive
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6. Future Ready Requirements

- App-ready API structure
- Push notification integration ready
- Subscription model possible in future

- Ad integration support (Google Ads)
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7. Ownership Rules (Very Important)

1. Domain – Owner controlled (Already done)
2. GitHub – Owner email
3. Vercel – Owner email
4. Database – Owner email
5. Developer only collaborator access

No root access given to developer permanently.

8. Expected Development Phases

Phase 1 – UI + Homepage

Phase 2 – Article system + Admin

Phase 3 – Bilingual system

Phase 4 – E-Paper system

Phase 5 – Testing & Deployment

Estimated timeline: 4–6 weeks (professional build)

Final Note for Developer

The platform must be scalable for high traffic and future expansion.

Clean code structure, documentation, and proper folder organization required.
