### Faith.online Technical Requirements Document (TRD)

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### 1. Project Overview

Faith.online is a moderated, Christ-centered digital platform designed for believers, churches, ministries, Christian businesses, and creators. It provides an ad-free, distraction-free, and Gospel-aligned alternative to secular social media platforms, supporting prayer, testimony, connection, events, and discipleship through modern UX.

## 2. Technology Stack Overview

#### Frontend:

- Framework: Next.js (TypeScript)
- UI: Responsive, mobile-first
- SSR/SSG: Supported via AWS Amplify or CloudFront
- PWA: Installable with offline support (Service Worker)

### Backend:

- Framework: NestJS (Node.js, TypeScript)
- API Type: RESTful (extendable to GraphQL)
- Realtime Messaging: WebSockets (via AWS ALB + ECS or API Gateway + Lambda)

### Database:

MongoDB Atlas (deployed in AWS region)

 Schema includes: Users, FaithPages, Posts, Comments, Reactions, Moderation, Events, Settings

#### **Authentication & Authorization:**

- JWT-based auth with refresh tokens
- Roles: Believer, Creator, Admin, Superadmin
- RBAC enforced through NestJS guards and route middleware

### Cloud Platform: Amazon Web Services (AWS)

 Justification: Best fit for Ikonic stack, scalability, moderation tooling, SSR support, and MongoDB hosting

# 3. Infrastructure & DevOps

### • Hosting Services:

• Frontend: AWS Amplify or S3 + CloudFront

Backend: AWS ECS (Fargate) or Lambda (via SST)

Database: MongoDB Atlas (multi-AZ deployment)

#### Security:

- AWS Secrets Manager for credentials
- Role-based access via IAM and API-level restrictions

#### • Environments:

o dev, staging, production

### CI/CD:

GitHub Actions + AWS CodeDeploy or CodePipeline

# • Monitoring & Logging:

- AWS CloudWatch
- o Application-level logs retained for moderation audits

# 4. Core MVP Modules

Module	Description	
Faith Directory	CRUD for FaithPages, claim/verify flow, search + filter	
Rhythm Keeper (Basic)	Habit tracker, calendar, shared planning tools	
Messaging	Direct messages with safety filters, real-time via WebSockets	
User Posts	Text/image posts, testimonies, prayer requests	
Reactions	Positive-only (Amen, Bless)	
Comments	Threaded replies with moderation queue	
Connections System	Connect/unconnect, "My Network" view	
Community Stream	Algorithmic or chronological post feed	
Moderation	Manual flagging, Al word filter, admin dashboard	
Daily Bible Verse	Rotating scripture feed from in-app DB or API	
Christian News Feed	Curated RSS imports displayed on dashboard	
White-label Branding	Theme color/font/logo customization per FaithPage	

# 5. Moderation & Safety

### • Filters:

- o Al word filter for profanity, politics, harmful content
- o Manual flagging by users

#### Admin Tools:

- Moderation queue, approve/reject, ban/suspend users
- Role management and analytics dashboard

### • Content Types Filtered:

o Posts, Comments, Messages

### Youth Privacy:

- o No public profiles under 13, COPPA-inspired limitations
- All data stored in compliance with GDPR and privacy best practices

#### • Escalation:

o Theological disputes escalated to admin team for manual resolution

# 6. Theming & Customization

- Each FaithPage can customize its theme
- Custom elements: logo, colors, fonts
- Stored in MongoDB and dynamically applied at render

# 7. Testing & QA

- Unit tests for UI components and API logic
- Integration tests for auth flows, moderation, messaging
- Manual QA during alpha, beta, pre-launch
- Performance testing using Lighthouse

• PWA installable compliance check

# 8. Deployment Milestones

Phase	Target Date	Deliverables
Infrastructure Setup	Aug 2025	Auth, DB schema, CI/CD, component library
MVP Core Dev	Sep-Nov 2025	Directory, Messaging, Feed, Rhythm Keeper
QA & Beta Rollout	Nov-Dec 2025	Internal QA, pilot testing, bug fixes
Final Polish	Dec 2025	Mobile optimization, performance tuning
Public Launch	Jan 2026	Live deployment of Faith.online MVP

# 9. Open Questions & Assumptions

- Stripe integration is Phase 2 (not included in MVP)
- No headless CMS is planned; Bible/news content will be in-app or RSS
- AWS will host all production infrastructure
- Project cost management will follow weekly milestone billing