

Twist: Web & Mobile App Development Plan

1. Architecture Overview

Frontend:

- **Web Platform:** React.js (Next.js for SSR & SEO optimization)
- **Mobile Apps:** React Native (for iOS & Android)

Backend:

- **API:** Node.js with Express.js
- **Database:** MongoDB (scalable NoSQL database)
- **Authentication:** JWT for secure user authentication & role-based access control
- **Real-time Notifications:** Firebase Cloud Messaging (FCM)
- **Geolocation:** Google Maps API for artist location tracking
- **Payments & Wallet:** Stripe & PayPal API for transactions and withdrawals

Infrastructure:

- **Hosting:** AWS (EC2, S3, RDS, CloudFront, Lambda for serverless functions)
 - **Admin Dashboard:** Next.js hosted on Vercel
 - **CI/CD:** GitHub Actions for automated testing & deployments
 - **Security Measures:**
 - Data encryption at rest and in transit (TLS/SSL)
 - OWASP best practices for API security
 - Role-based access control (RBAC)
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2. Requirements Breakdown

Core Features:

For Artists:

1. **Geolocation & Service Publication** – Artists can share location & publish services in real-time.
2. **Twist & Notifications** – Artists receive requests; balance remains pending until completion.
3. **Reviews & Service Selection** – Artists have profiles with ratings & reviews.
4. **Payments & Withdrawals** – Wallet system; funds released after company confirmation.
5. **Subscriptions** – Gold & Platinum plans for enhanced visibility & perks.

For Companies:

1. **Service Purchase & Twist** – Companies can book artists & additional services.
2. **Corporate Subscriptions** – Gold & Platinum plans for access to more features.
3. **P.A. & Referral System** – P.A.s manage bookings, create teams, and earn commissions.
4. **Logistics & Delivery Confirmation** – Ensuring service completion before fund release.

Admin Features:

- User management (Artists, Companies, P.A.s)
 - Approval of P.A. registrations
 - Payment and subscription management
 - Data analytics dashboard
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3. Timeline & Weekly Milestones (3 Months)

Project Duration: 12 Weeks

Month 1 - Core Development

Week 1: Project Setup & Backend Architecture

- ✓ Finalize architecture & tech stack
- ✓ Setup monorepo for frontend & backend
- ✓ Setup CI/CD pipelines (GitHub Actions, AWS, Vercel)
- ✓ Implement authentication (JWT, Role-based access)
- ✓ Database schema design & setup (MongoDB)

Week 2: Backend API Development

- ✓ Implement user registration/login API
- ✓ Develop artist geolocation API
- ✓ Implement role-based access control (RBAC)
- ✓ Build API for service postings & listings

Week 3: Admin Dashboard & Payment Setup

- ✓ Start Next.js admin panel development
- ✓ Implement Stripe & PayPal API for payments
- ✓ Integrate Firebase Cloud Messaging for notifications

Week 4: Web Frontend Development

- ✓ Build artist dashboard UI (React.js)
 - ✓ Implement company dashboard UI
 - ✓ Connect frontend with backend APIs
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Month 2 - Feature Integration & Mobile App Development

Week 5: Mobile App Development Kickoff

- ✓ Setup React Native project
- ✓ Implement authentication in mobile app
- ✓ Develop artist service posting UI

Week 6: Geolocation & Notifications

- ✓ Integrate Google Maps API for geolocation
- ✓ Implement real-time notifications (FCM)
- ✓ Enable artists to update service availability

Week 7: Subscription & Payment Flows

- ✓ Implement Gold & Platinum subscription models
- ✓ Integrate payment system in web & mobile
- ✓ Allow users to subscribe/unsubscribe

Week 8: P.A. System & Logistics

- ✓ Implement P.A. onboarding & approval system
 - ✓ Develop logistics module for service confirmation
 - ✓ Build referral system for P.A.s
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Month 3 - Testing, Deployment & Finalization

Week 9: Testing & Bug Fixing

- ✓ Conduct unit & integration tests
- ✓ Fix bugs & optimize performance
- ✓ Test payment & withdrawal flows

Week 10: Finalizing Mobile App & Web

- ✓ Final UI/UX refinements
- ✓ Implement multi-language support (if needed)
- ✓ Prepare apps for App Store & Google Play submission

Week 11: Deployment & Security Review

- ✓ Deploy backend & web app to AWS & Vercel
- ✓ Security audit & penetration testing
- ✓ Final testing before go-live

Week 12: Client Review & Launch

- ✓ Client demo & final feedback
 - ✓ Deploy mobile apps to Play Store & App Store
 - ✓ Official launch of Twi platform
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4. Final Deliverables

- ✓ Web platform (React.js)
 - ✓ Native mobile apps (React Native)
 - ✓ Secure backend (Node.js, Express, MongoDB)
 - ✓ Admin dashboard for user & payment management
 - ✓ Payment integration with Stripe & PayPal
 - ✓ Real-time notifications (FCM)
 - ✓ P.A. system & referral program
 - ✓ Logistics & service confirmation system
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5. Conclusion & Next Steps

- **Regular Weekly Client Meetings**
- **QA & UAT in Final Weeks**
- **Post-launch monitoring & improvements**