Grasp - Complete Development Workflow

Project Overview

Timeline: 10-12 weeks

Daily Commitment: 2-4 hours **Skill Level**: Intermediate JavaScript



Phase 1: Project Foundation (Week 1)

Day 1: Initial Setup

Create GitHub repository named "grasp-news"
☐ Install Node.js (v18 or later) if not installed
☐ Create Next.js project: npx create-next-app@latest graspuse-npmno-typescript
□ Navigate to project: (cd grasp)
☐ Initialize git and make first commit
Create (.env.local) file for environment variables
Update (README.md) with project description
Day 2: Dependencies Installation
☐ Install core dependencies:
bash
npm install @supabase/supabase-js @supabase/auth-helpers-nextjs npm install axios date-fns
npm install zustand
☐ Install UI dependencies:
bash
npm install @headlessui/react @heroicons/react
npm install framer-motion
npm install react-hot-toast
☐ Install map dependencies:
bash
npm install leaflet react-leaflet
npm install -D @types/leaflet
☐ Install chart dependencies:

npm install chart.js react-chartjs-2

Day 3: Project Structure

Create folder structure: /app /api /auth /news /profile /components /components /ui /news /map /charts /lib /hooks /utils /public /images Set up TailwindCSS properly (should be auto-configured) ☐ Create (jsconfig.json) for path aliases: json "compilerOptions": { "paths": { "@/*": ["./*"]

Day 4: Design System Setup

- ☐ Create color palette in (app/globals.css):
 - Primary: Blue ((#3B82F6))
 - Secondary: Green (#10B981)
 - Neutral: Gray shades
 - Sentiment colors: Red/Yellow/Green
- ☐ Set up font system (Inter or similar)

Create CSS variables for consistent spacing
Set up dark mode CSS variables
Day 5: Basic Components
Croata (sampananta/vi/Putton is)
Create components/ui/Button.js
Create components/ui/Card.js
Create components/ui/Input.js
Create components/ui/Badge.js
Create (components/ui/Skeleton.js) (for loading states)
Create (components/Layout.js) (header, footer, navigation)
Day 6: Navigation & Routing
Create components/Header.js with logo and navigation
Create components/Footer.js
Set up main pages structure:
(app/page.js) (Homepage)
• (app/news/page.js) (News list)
app/news/[id]/page.js (Article detail)
app/profile/page.js (User profile)
app/auth/login/page.js
app/auth/signup/page.js
Add navigation links in Header
Day 7: Development Tools
☐ Install dev dependencies:
bash
npm install -D prettier eslint-config-prettier
Create (.prettierrc) configuration
Set up ESLint rules
Create (utils/constants.js) for app-wide constants
Create utils/helpers.js for common functions
Test build: (npm run build)
Phase 2: Database & Authentication (Week 2)
Day 8: Supabase Setup
Create account at supabase.com
Create new project named "grasp"

 ■ Wait for project to initialize ■ Copy project URL and anon key ■ Add to (.env.local): NEXT_PUBLIC_SUPABASE_URL=your-project-url NEXT_PUBLIC_SUPABASE_ANON_KEY=your-anon-key
Day 9: Database Schema Creation
Go to Supabase SQL Editor Create user_profiles table Create news_articles table Create user_article_interactions table Create personal_impacts table Create bias_analysis table Create api_usage_logs table Add indexes for performance
Day 10: Supabase Configuration
 Create (lib/supabase.js) client configuration Set up Row Level Security (RLS) policies: Users can only read/update their own profile Articles are public read Interactions are private to user Enable Realtime for news_articles table Test connection from your app
Day 11: Authentication Setup
 Enable Email Auth in Supabase Create hooks/useAuth.js custom hook Create login page UI Create signup page UI Implement login functionality Implement signup functionality Add logout button to Header
Day 12: Protected Routes
 Create middleware.js for route protection Protect /profile route Create auth context provider Wrap app with auth provider

☐ Test authentication flow
Add "Remember me" functionality
•
Day 13: User Profile
Create profile setup form
Add fields: name, location, interests
Create interests selection (checkboxes)
■ Implement profile update functionality
☐ Create (api/user/profile) endpoint
■ Test profile creation/update
Day 14: Authentication Polish
Add loading states to auth forms
Add error handling and display
☐ Create password reset flow
Add social login buttons (UI only for now)
☐ Create welcome email template
■ Test entire auth flow
Phase 3: Core News Features (Week 3-4)
Day 15: API Keys Setup
Day 15: API Keys Setup Sign up for NewsAPI.org
☐ Sign up for NewsAPI.org
☐ Sign up for NewsAPI.org ☐ Sign up for The Guardian API
□ Sign up for NewsAPI.org □ Sign up for The Guardian API □ Sign up for Reddit API (create Reddit app)
Sign up for NewsAPI.org Sign up for The Guardian API Sign up for Reddit API (create Reddit app) Add all API keys toenv.local
Sign up for NewsAPI.org Sign up for The Guardian API Sign up for Reddit API (create Reddit app) Add all API keys toenv.local Create
Sign up for NewsAPI.org Sign up for The Guardian API Sign up for Reddit API (create Reddit app) Add all API keys toenv.local Createlib/apis/newsapi.js Createlib/apis/guardian.js
Sign up for NewsAPI.org Sign up for The Guardian API Sign up for Reddit API (create Reddit app) Add all API keys toenv.local Createlib/apis/newsapi.js Createlib/apis/guardian.js Createlib/apis/reddit.js
Sign up for NewsAPI.org Sign up for The Guardian API Sign up for Reddit API (create Reddit app) Add all API keys toenv.local Createlib/apis/newsapi.js Createlib/apis/guardian.js Createlib/apis/reddit.js Day 16: News Fetching System
Sign up for NewsAPI.org Sign up for The Guardian API Sign up for Reddit API (create Reddit app) Add all API keys to env.local Create (lib/apis/newsapi.js) Create (lib/apis/guardian.js) Create (lib/apis/reddit.js) Day 16: News Fetching System Create (app/api/news/fetch/route.js)
Sign up for NewsAPI.org Sign up for The Guardian API Sign up for Reddit API (create Reddit app) Add all API keys to env.local Create lib/apis/newsapi.js Create lib/apis/guardian.js Create lib/apis/reddit.js Day 16: News Fetching System Create app/api/news/fetch/route.js Implement NewsAPI fetching function
Sign up for NewsAPI.org Sign up for The Guardian API Sign up for Reddit API (create Reddit app) Add all API keys to _env.local Create _lib/apis/newsapi.js Create _lib/apis/guardian.js Create _lib/apis/reddit.js Day 16: News Fetching System Create _app/api/news/fetch/route.js Implement NewsAPI fetching function Create data transformation function
Sign up for NewsAPI.org Sign up for The Guardian API Sign up for Reddit API (create Reddit app) Add all API keys to _env.local Create _lib/apis/newsapi.js Create _lib/apis/guardian.js Create _lib/apis/reddit.js Day 16: News Fetching System Create _app/api/news/fetch/route.js Implement NewsAPI fetching function Create data transformation function Add error handling
Sign up for NewsAPI.org Sign up for The Guardian API Sign up for Reddit API (create Reddit app) Add all API keys toenv.local Createlib/apis/newsapi.js Createlib/apis/guardian.js Createlib/apis/reddit.js Day 16: News Fetching System Createapp/api/news/fetch/route.js Implement NewsAPI fetching function Create data transformation function Add error handling Test API endpoint manually

☐ Create function to store new articles	
☐ Add duplicate detection (by URL)	
☐ Implement batch insert for efficiency	
☐ Create (utils/newsProcessor.js)	
☐ Test storing articles in database	
Day 18: Scheduled Fetching	
Create (app/api/cron/fetch-news/route.js)	
Set up Vercel Cron Jobs (vercel.json)	
Implement hourly fetching	
Add API usage tracking	
Create admin stats page	
■ Monitor API usage	
Day 19: News Display Components	
Create (components/news/NewsCard.js)	
Create (components/news/NewsList.js)	
Create (components/news/NewsGrid.js)	
Add skeleton loading states	
☐ Implement pagination	
Add category badges	
Day 20: Article Detail Page	
Create article detail layout	
Add breadcrumb navigation	
Display full article content	
Add reading time calculator	
Create "Related Articles" section	
Add social share buttons	
Day 21: Homepage Design	
Create hero section with tagline	
Add featured news carousel	
☐ Create category sections	
Add "Latest News" feed	
☐ Implement infinite scroll	
Add refresh button	

Day 22: Map Setup
Create (components/map/NewsMap.js) Initialize Leaflet map Add OpenStreetMap tiles Set default view (world view) Add zoom controls Fix Leaflet CSS issues in Next.js Day 23: News Markers
 Create custom marker icons Add markers for news locations Implement marker clustering Add popup on marker click Show article preview in popup Link to full article
Day 24: Map Interactivity Add country boundaries layer Implement hover effects Create news density heatmap Add map controls (layers, zoom) Add "fly to" animation on country click Create map legend
Day 25: Location Services Sign up for IPInfo API Implement user location detection Add "Near me" button Filter news by proximity Create location-based recommendations Add location privacy settings
Day 26: Map Features Add sentiment color coding Create time-based filtering Add news category filtering on map Implement map search Add fullscreen mode Create mobile-optimized view

Day 27: Performance Optimization
☐ Implement marker virtualization
Add progressive loading
Optimize for mobile devices
Cache map tiles
Reduce marker re-renders
Add loading indicators
Day 28: Week 4 Review
☐ Test all features built so far
Fix any bugs found
Optimize performance
Update documentation
Plan next phase
Deploy to Vercel for testing
Phase 5: Al Integration (Week 5-6) Day 29: OpenAl Setup
☐ Sign up for OpenAl API☐ Add API key to environment
Create (lib/apis/openai.js)
☐ Test API connection
☐ Implement error handling
Set up usage monitoring
Day 30: Simplification Engine
Create (app/api/ai/simplify/route.js)Design prompts for different levels:
ELI5 (Explain Like I'm 5)
• Teen level
Standard simplification
Implement caching for simplified content
Add cost tracking
Day 31: Simplification UI
Add "Simplify" button to articles
Create reading level colector
Create reading level selector

Add "Show original" toggle Save user's preferred level Day 32: Summary Generation Create summary prompt template Generate 5-sentence summaries Add summary to article cards Create "Key points" extraction Add bullet point summaries Test with various article types Day 33: Sentiment Analysis Sign up for Hugging Face Create [lib/apis/huggingface]s Implement sentiment analysis Add sentiment badges to articles Create sentiment visualization Update map with sentiment colors Day 34: Content Enhancement Create quiz generation for articles Add "Test your understanding" feature Generate discussion questions Create fact extraction Add keyword highlighting Implement read time estimates Day 35: Al Features Polish Add retry logic for API failures Implement graceful degradation Create admin dashboard for AI usage Add user feedback on simplification Optimize API calls Test edge cases	☐ Display simplified content
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Add user feedback on simplification Optimize API calls Test edge cases	☐ Implement graceful degradation
Optimize API calls Test edge cases	Create admin dashboard for Al usage
Test edge cases	Add user feedback on simplification
	Optimize API calls
6 Phase 6: Personalization (Week 7-8)	☐ Test edge cases
o i habe of terbonanzation (treek i o)	© Phase 6: Personalization (Week 7-8)
Day 36: Impact Analysis Design	Day 36: Impact Analysis Design
Design impact calculation algorithm	

Create impact categories:
Financial
Health
 Work/Career
Travel
• Lifestyle
Design impact severity levels
Day 37: Impact Calculator
Create (app/api/impact/calculate/route.js)
Implement location-based impacts
Add demographic considerations
Create impact scoring system
☐ Test with various news types
Store impacts in database
Day 38: Impact UI Components
Create components/ImpactCard.js
Design impact visualization
Add severity indicators
Create expandable details
Add "Why this affects you" explanations
Implement dismissible cards
Day 39: User Preferences
Create preferences page
Add interest categories selector
Implement location settings
Add notification preferences
Create reading preferences
Save to user profile
Day 40: Recommendation Engine
☐ Track user reading behavior
Create interest scoring algorithm
☐ Implement collaborative filtering
Add "Recommended for you" section
Create "Discover" page
☐ Test recommendation accuracy

Day 41: Personalized Feed
Create personalized homepage
☐ Implement feed algorithm
Add interest-based sorting
Create "For You" tab
Add trending in your area
☐ Implement feed customization
Day 42: Engagement Features
Add article bookmarking
Create reading history
☐ Implement "Continue reading"
Add reading streaks
Create achievement system
Design progress tracking
→ Phase 7: Advanced Features (Week 9-10)
Day 43: Bias Detection Setup
Design bias detection logic
Create source credibility database
Implement multi-source fetching
Create comparison algorithm
Design bias indicators
Set up bias categories
Day 44: Bias Analysis UI
Create components/BiasAnalysis.js
Design comparison view
Add source badges
Create bias spectrum visual
Add "Facts vs Opinion" separator
☐ Implement source tooltips
Day 45: Social Features
Add commenting system
Create comment moderation
☐ Implement upvoting
Add sharing functionality

☐ Create share tracking
Design social cards
Day 46: Search Implementation
Create search bar component
☐ Implement full-text search
Add search filters
☐ Create search results page
Add search suggestions
☐ Implement recent searches
Day 47: Analytics Dashboard
Create user dashboard
■ Add reading statistics
Show interest evolution
☐ Create knowledge score
Add category breakdowns
Design data visualizations
Day 48: Performance Features
■ Implement lazy loading
Add image optimization
☐ Create service worker
■ Enable offline reading
Add PWA manifest
☐ Implement caching strategy
Day 49: Accessibility
Add ARIA labels
■ Implement keyboard navigation
Create high contrast mode
Add screen reader support
☐ Test with accessibility tools
Fix accessibility issues
Phase 8: Polish & Launch (Week 11-12)
Day 50: UI Polish
☐ Refine all animations
Add micro-interactions

 □ Polish loading states □ Create empty states □ Add error boundaries □ Implement toast notifications Day 51: Mobile Optimization □ Test on various devices □ Fix responsive issues □ Optimize touch interactions
Add pull-to-refresh□ Create app-like experience□ Test on slow connections
Day 52: SEO Optimization
 Add meta tags Create sitemap Implement Open Graph tags Add structured data Create robots.txt Optimize page titles
Day 53: Testing
Day 53: Testing Create test plan Test all user flows Test edge cases Load testing Security testing Cross-browser testing
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Create test plan Test all user flows Test edge cases Load testing Security testing Cross-browser testing Day 54: Documentation Write user guide Create API documentation Document deployment process Create troubleshooting guide Write contributor guidelines

Create feedback form
■ Monitor error logs■ Track user behavior
Collect feedback
Day 56: Bug Fixes
Fix reported bugs
Optimize based on feedback
☐ Improve performance issues
Refine UI based on usage
Update features
☐ Prepare for launch
Day 57: Launch Preparation
Create landing page
■ Write launch announcement
Prepare social media posts
Create demo video
☐ Set up analytics
☐ Final testing
Day 58: Launch! 🎉
Deploy final version
☐ Announce on social media
Submit to directories
☐ Monitor performance
Respond to feedback
Celebrate!
▶ Daily Routine Suggestion

Morning (1 hour)

- Review previous day's work
- Plan today's tasks
- Code implementation

Evening (1-2 hours)

- Continue coding
- Test features

- Commit changes
- Update task list

Weekend (2-3 hours)

- Catch up on missed tasks
- Plan next week
- Research new features
- Refactor code

© Success Milestones

Week 2: Working authentication

Week 4: News displayed on map

Week 6: Al simplification working

Week 8: Personalized experience

Week 10: All features complete

Week 12: Launched! 💉



Pro Tips

- 1. Commit daily: Even small progress
- 2. Test as you go: Don't wait until the end
- 3. **Ask for help**: Join Next.js communities
- 4. Stay motivated: Your app will help millions understand news better
- 5. **Document everything**: Your future self will thank you