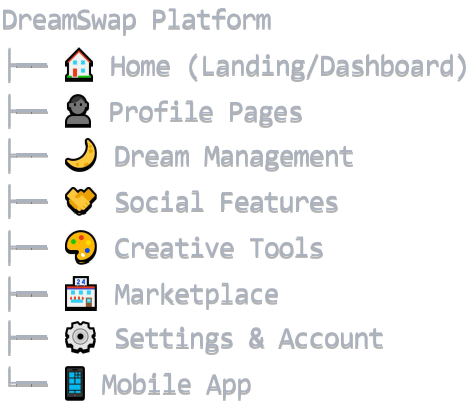


DreamSwap - Complete Site Map & Functionality Integration

🌙 Site Architecture Overview

Core Pages Structure



📄 Detailed Page Map

1. Home/Landing Page (/)

Current Status: ☒ Complete (SpaceHey style)

- Hero section with profile-style layout
- Navigation bar (Home, Dreams, Friends, Messages, etc.)
- Dream feed ticker
- Top 8 Friends section
- Core features overview
- Online status indicator

2. Authentication (/auth)

- `/login` - Login page with dreamy styling
- `/register` - Sign up with dream personality quiz
- `/forgot-password` - Password recovery
- `/verify-email` - Email verification

3. Profile System (/profile)

- `/profile/me` - Your profile dashboard
- `/profile/{username}` - Public user profiles
- `/profile/edit` - Edit profile settings

- `/profile/stats` - Dream statistics & analytics
- `/profile/badges` - Achievement system

4. Dream Management (`/dreams`)

- `/dreams` - Personal dream library
- `/dreams/create` - Submit new dream
- `/dreams/edit/{id}` - Edit existing dreams
- `/dreams/analytics` - Dream pattern analysis
- `/dreams/calendar` - Dream journal calendar
- `/dreams/tags` - Tag management system

5. Dream Tokens & NFTs (`/tokens`)

- `/tokens` - Your dream token collection
- `/tokens/mint` - Create new dream tokens
- `/tokens/transfer` - Send/trade tokens
- `/tokens/history` - Transaction history
- `/tokens/marketplace` - Browse available tokens

6. AI Dream Tools (`/ai`)

- `/ai/synthesizer` - AI Dream Synthesizer
- `/ai/visualizer` - Dream to image generation
- `/ai/interpreter` - Dream meaning analysis
- `/ai/remix` - Collaborative dream remixing
- `/ai/music` - Dream-to-music generation

7. DreamWorlds (`/worlds`)

- `/worlds` - Explore shared dreamscapes
- `/worlds/create` - Build new dreamworld
- `/worlds/{id}` - Individual dreamworld pages
- `/worlds/collaborate` - Collaborative building tools
- `/worlds/favorites` - Bookmarked worlds

8. Social Features (`/social`)

- `/friends` - Friends list & management
- `/messages` - Direct messaging system
- `/groups` - Dream circles & communities
- `/events` - Dream sharing events
- `/notifications` - Activity notifications

9. Dream Pacts (`/pacts`)

- `/pacts` - Active dream sharing groups
- `/pacts/create` - Form new pacts
- `/pacts/{id}` - Individual pact pages
- `/pacts/history` - Past pact experiences
- `/pacts/requests` - Join requests

10. Marketplace (`/market`)

- `/market` - Browse dream marketplace
- `/market/sell` - List dreams for trade
- `/market/buy` - Purchase dream tokens
- `/market/auction` - Dream auctions
- `/market/history` - Transaction history

11. Discovery & Feed (`/discover`)

- `/discover` - Trending dreams & worlds
- `/discover/featured` - Curated content
- `/discover/random` - Random dream exploration
- `/discover/search` - Advanced search tools
- `/discover/categories` - Browse by categories

12. Analytics & Insights (`/insights`)

- `/insights` - Personal dream analytics
- `/insights/patterns` - Sleep & dream patterns
- `/insights/influence` - Reputation metrics
- `/insights/community` - Community impact
- `/insights/export` - Data export tools

Core Functionalities Integration

User Management System

- **Registration/Login:** OAuth integration (Google, Discord, Twitter)
- **Profile Customization:** SpaceHey-style customizable profiles
- **Reputation System:** Influence scoring based on dream interactions
- **Privacy Controls:** Public/private dream sharing settings

Dream Submission & Processing

```
javascript
```

```
// Dream submission flow
```

```
1. Text/Audio Input → 2. AI Processing → 3. Metadata Extraction →  
4. Tag Generation → 5. Token Creation → 6. Publishing
```

AI Integration Pipeline

- **Dream Synthesis:** Natural language processing for dream interpretation
- **Visual Generation:** Text-to-image for dream visualization
- **Audio Creation:** Dream-to-ambient music generation
- **Pattern Recognition:** Sleep cycle and dream theme analysis
- **Collaborative Remixing:** AI-assisted dream blending

Blockchain Integration

- **Dream Tokens:** ERC-721 NFTs for unique dreams
- **Trading System:** Decentralized marketplace
- **Ownership Verification:** Immutable dream ownership
- **Royalty Distribution:** Creator rewards system

Real-time Features

- **Live Dream Feed:** WebSocket-powered real-time updates
- **Collaborative Editing:** Real-time dreamworld building
- **Chat System:** In-app messaging and group discussions
- **Notification System:** Push notifications for interactions

Enhanced SpaceHey Features

Profile Customization

- Custom CSS themes for profiles
- Dream mood indicators
- Animated profile elements
- Personal dream statistics display
- Visitor counter and guest book

Social Media Elements

- **Top 8 Dream Friends:** Featured connections
- **Dream Wall:** Comments and interactions
- **Status Updates:** Current dream moods
- **Photo Albums:** Dream visualization galleries
- **Music Player:** Ambient dream soundtracks

Interactive Elements

- **Glitter Cursor:** Sparkle effects while browsing
 - **Easter Eggs:** Hidden features (Konami code, etc.)
 - **Animated GIFs:** Dream-themed animations
 - **Custom Emoticons:** Dream-specific emoji set
 - **Sound Effects:** Ambient audio feedback
-



Mobile Experience

Progressive Web App (PWA)

- Offline dream journaling
- Push notifications for dream reminders
- Camera integration for dream inspiration
- Voice-to-text dream recording
- Swipe gestures for navigation

Mobile-Specific Features

- **Dream Alarm:** Wake up during REM cycles
- **Quick Capture:** Instant dream recording
- **Location Tagging:** Dream location mapping
- **Shake to Randomize:** Discover random dreams

- **Dark Mode:** Night-friendly interface
-

Security & Privacy

Data Protection

- End-to-end encryption for private dreams
- GDPR compliance for EU users
- Blockchain-based identity verification
- Two-factor authentication options
- Data portability and deletion rights

Content Moderation

- AI-powered inappropriate content detection
 - Community reporting system
 - Moderator dashboard for review
 - Age-appropriate content filtering
 - Spam and abuse prevention
-

Technical Stack Recommendations

Frontend

- **Framework:** React.js or Vue.js for dynamic UI
- **Styling:** Tailwind CSS + custom SpaceHey theme
- **Animations:** Framer Motion or GSAP
- **State Management:** Redux Toolkit or Zustand
- **PWA Tools:** Workbox for offline functionality

Backend

- **API:** Node.js with Express or Python with FastAPI
- **Database:** PostgreSQL for user data, MongoDB for dreams
- **File Storage:** IPFS for decentralized dream storage
- **AI Services:** OpenAI GPT-4, DALL-E, Stability AI
- **Blockchain:** Ethereum or Polygon for NFT functionality

Infrastructure

- **Hosting:** Vercel or Netlify for frontend

- **Backend:** AWS, Google Cloud, or Railway
 - **CDN:** Cloudflare for global performance
 - **Monitoring:** Sentry for error tracking
 - **Analytics:** Privacy-focused analytics (Plausible)
-

User Journey Flow

New User Onboarding

1. **Landing Page** → Attractive SpaceHey-style introduction
2. **Registration** → Fun personality quiz during signup
3. **Profile Setup** → Choose dream avatar and preferences
4. **First Dream** → Guided dream submission tutorial
5. **Discovery** → Recommended friends and dreams
6. **Engagement** → First dream pact or world exploration

Daily User Flow

1. **Login** → Check dream feed and notifications
 2. **Submit Dreams** → Record new dreams from last night
 3. **Explore** → Browse trending dreams and worlds
 4. **Interact** → Comment on friends' dreams, join discussions
 5. **Create** → Use AI tools for dream visualization
 6. **Trade** → Marketplace activity and token management
-

Future Feature Roadmap

Phase 1 - Core Platform (Months 1-3)

- Basic profile and dream submission system
- SpaceHey-style UI implementation
- Simple AI dream interpretation
- Friend system and basic social features

Phase 2 - Advanced Features (Months 4-6)

- NFT dream tokens and marketplace
- Collaborative dreamworlds
- Advanced AI visualization tools

- Mobile PWA implementation

Phase 3 - Community & Scale (Months 7-12)

- Advanced analytics and insights
- Community events and challenges
- Third-party integrations (Spotify, etc.)
- International expansion and localization

Phase 4 - Innovation (Year 2+)

- VR/AR dream exploration
- Advanced AI dream prediction
- Integration with sleep tracking devices
- Research partnerships with dream institutes

Key Performance Indicators (KPIs)

Engagement Metrics

- Daily active users (DAU)
- Dreams submitted per user per week
- Time spent in dreamworlds
- Social interactions per session
- Dream token trading volume

Growth Metrics

- User acquisition rate
- User retention (7-day, 30-day)
- Viral coefficient (friend invitations)
- Content creation rate
- Community participation level

This comprehensive site map provides a complete blueprint for transforming DreamSwap from a single landing page into a fully-featured dream sharing platform that maintains the beloved SpaceHey aesthetic while delivering cutting-edge functionality for dream exploration and community building.