## ****1. Introduction****

### ****1.1 Purpose****

The purpose of this document is to define the software requirements for **Whisprly**, a web-based application for streaming and managing podcasts and related books. The system will allow users to browse, listen to, and subscribe to podcasts, while also discovering and reading (or purchasing) books related to those podcast topics.

### ****1.2 Scope****

Whisprly is a multimedia content platform focused on:

* Podcast streaming and subscription.
* Curated book recommendations and reading.
* Personalized user experience.
* Content creator dashboards.  
  The system will include user roles: listeners, creators, and admins.

### ****1.3 Definitions****

* **Podcast**: A digital audio file series available for streaming or download.
* **Audiobook**: A spoken version of a book available on the platform.
* **Episode**: An individual audio segment of a podcast series.
* **Creator**: A registered user who uploads and manages podcast content.

## ****2. Overall Description****

### ****2.1 Product Perspective****

Whisprly is a standalone web application accessible via browser and responsive on mobile devices. It will later integrate with mobile apps and voice assistants.

### ****2.2 User Classes****

* **Listeners**: Register, subscribe to podcasts, read books, manage libraries.
* **Creators**: Upload podcasts, link related books, manage followers.
* **Admins**: Manage users, content, categories, and reported items.

### ****2.3 Constraints****

* Web-based (desktop & mobile browsers)
* Hosted on a cloud platform (e.g., AWS, Azure)
* RESTful API backend
* GDPR compliant

### ****2.4 Assumptions****

* Users have access to a stable internet connection.
* Books and podcasts are either hosted on the platform or linked via affiliate APIs (e.g., Amazon, Google Books).

## ****3. Functional Requirements****

### ****3.1 User Authentication****

* Register/login via email or OAuth (Google, Apple, etc.)
* Forgot password & email verification

### ****3.2 Podcast Browsing****

* Browse by category, popularity, trending
* Search by name, tag, or speaker
* Subscribe to podcast series

### ****3.3 Podcast Playback****

* Stream episodes with play/pause/seek
* Adjustable playback speed
* Download for offline listening (optional for premium users)

### ****3.4 Book Integration****

* Each podcast can link to related books
* Books can be read in-app (if available) or linked externally
* Books categorized by topic/genre

### ****3.5 User Library****

* Save podcasts & books to personal library
* Create playlists
* Bookmark positions in episodes or books

### ****3.6 Creator Features****

* Dashboard for managing uploads, analytics
* Upload audio episodes and metadata
* Add book suggestions with affiliate links

### ****3.7 Admin Panel****

* Manage users, content categories
* Approve/ban content
* Generate reports (usage, trends)

## ****4. Non-Functional Requirements****

### ****4.1 Performance****

* Load podcast episodes in <2 seconds
* Handle 10,000+ concurrent users

### ****4.2 Security****

* HTTPS across all endpoints
* Encrypted passwords using bcrypt
* Role-based access control

### ****4.3 Usability****

* Intuitive and accessible UI (WCAG 2.1 compliant)
* Multilingual support (optional future phase)

### ****4.4 Scalability****

* Scalable backend for storage and streaming
* Microservices architecture preferred

### ****4.5 Maintainability****

* Modular code structure
* Documentation and API versioning

## ****5. External Interfaces****

### ****5.1 User Interface****

* Web interface built with modern front-end framework (React, Vue, etc.)
* Responsive design

### ****5.2 Hardware Interfaces****

* Compatible with common web browsers and devices
* Optionally, integrate with smart speakers or iOS/Android later

### ****5.3 Software Interfaces****

* Payment API (Stripe/PayPal for premium)
* Book APIs (Amazon, Google Books)
* Email API (SendGrid, Mailgun)

## ****6. Future Enhancements****

* Native mobile apps (iOS/Android)
* Social features (comments, sharing, following creators)
* AI-driven recommendations
* Support for video podcasts
* In-app audiobook playback

## ****Entities and Data Flows:****

### 1. ****Listeners (Users)****

* Register and log in
* Browse podcasts and books
* Stream podcast episodes
* Read or download PDF books

### 2. ****Creators****

* Register/log in
* Upload podcast episodes
* Upload related books as PDF files
* Manage their content

### 3. ****Admin Panel****

* Approve or reject uploads (podcasts and books)
* Manage user accounts
* Monitor and moderate content

### 4. ****Storage (Internal)****

* Securely stores:
  + Podcast audio files (MP3, etc.)
  + PDF books
* Accessible only through Whisprly interface

Use Case Diagram

## ****Actors:****

1. **Listener** – end user who listens to podcasts and reads/downloads books.
2. **Creator** – user who uploads and manages podcasts and books.
3. **Admin** – staff user who manages the platform.

### ****Listener:****

* Register / Login
* Browse and search podcasts/books
* Stream podcast episodes
* Download PDF books
* Subscribe to podcasts
* Create and manage personal library

### ****Creator:****

* Register / Login
* Upload podcast episodes
* Upload PDF books related to podcast topics
* Manage own content (edit/delete)
* View upload status

### ****Admin:****

* Approve or reject uploads
* Manage users (ban/unban)
* Moderate content (podcasts and books)

Ui:

[Browse thousands of Podcast images for design inspiration | Dribbble](https://dribbble.com/search/podcast)

[Dribbble - The portfolio network for the World’s Top Designers, Agencies, and Creatives](https://dribbble.com/search/audio-book?q=audio%20book)

[Audio Book Projects :: Photos, videos, logos, illustrations and branding :: Behance](https://www.behance.net/search/projects/audio%20book?tracking_source=typeahead_search_suggestion)

## ****Top Competitors to Whisprly****

### 🔹 ****1. Apple Podcasts****

* **Type:** Direct
* **Strengths:** Native to Apple devices, massive podcast library, intuitive interface.
* **Limitations:** No integrated book feature, audio-only.

### 🔹 ****2. Spotify****

* **Type:** Direct
* **Strengths:** Global audience, podcasts + music in one place, exclusive shows.
* **Limitations:** No official PDF/book support.

### 🔹 ****3. Audible****

* **Type:** Indirect
* **Strengths:** Strong audiobook library, some podcast-like series.
* **Limitations:** Premium model, lacks traditional podcast structure.

### 🔹 ****4. Google Podcasts**** (now merging into YouTube Music)

* **Type:** Direct
* **Strengths:** Simple, cross-platform, Google-integrated.
* **Limitations:** Less advanced UI, no book support.

### 🔹 ****5. Pocket Casts****

* **Type:** Direct
* **Strengths:** Powerful podcast manager, customizable playback.
* **Limitations:** Audio-only, not a content platform (more of a player).

### 🔹 ****6. Overcast****

* **Type:** Direct
* **Strengths:** Smart playback, clean UI, ad-supported or premium.
* **Limitations:** iOS-only, no book content.

### 🔹 ****7. Podbean****

* **Type:** Direct
* **Strengths:** Hosting + listening platform, monetization tools.
* **Limitations:** Complex UI, limited book/media options.

### 🔹 ****8. Scribd****

* **Type:** Indirect
* **Strengths:** Offers both audiobooks and PDFs/ebooks.
* **Limitations:** No podcast content, subscription required.

### 🔹 ****9. Castbox****

* **Type:** Direct
* **Strengths:** In-audio search, personalized discovery.
* **Limitations:** Ads, no PDF/book integration.

### 🔹 ****10. YouTube****

* **Type:** Indirect (podcast-like video/audio content)
* **Strengths:** Massive audience, supports audio+visual.
* **Limitations:** No structured podcast or book linking experience.

**Brand Essence for Whisprly:** "Intelligent Discovery, Seamlessly Blended." Whisprly aims to be a sophisticated yet inviting platform where curiosity is rewarded. It's for the discerning listener and reader who appreciates curated content and the joy of finding connections between what they hear and what they read. The feel should be modern, clean, trustworthy, and slightly cozier than purely tech-focused platforms, hinting at the comfort of a good book or an engaging podcast.

**Visual Identity Elements for Whisprly:**

1. **Logo:**
   * **Concept:** The logo should subtly hint at both audio and books.
     + **Option A (Abstract Symbol + Wordmark):** A stylized icon that could be interpreted as an open book with soundwaves gently emanating from its center, or perhaps a speech bubble morphing into a bookmark. Paired with a clean, modern wordmark "Whisprly."
     + **Option B (Integrated Wordmark):** The "W" in Whisprly could be stylized. Perhaps the first 'V' of the W is a subtle soundwave, and the second 'V' forms the corner of a page or a bookmark.
     + **Option C (Minimalist Combination):** A simple, elegant soundwave icon placed thoughtfully next to a classic book icon (perhaps an open silhouette), both rendered in a minimalist style, above or beside the wordmark.
   * **Feel:** Approachable, smart, memorable. Not too literal, but suggestive.
   * **Reference Insights:**
     + **Spotify/Google Podcasts:** Use soundwave motifs effectively.
     + **Apple Podcasts:** Uses a microphone, which is audio-specific. We need to be broader.
     + **Audible:** More typographic, sometimes with a subtle abstract mark.
2. **Color Palette:**
   * **Primary:**
     + **Deep Teal (#00697B or similar):** This color evokes intelligence, depth, calm, and trust. It's sophisticated and modern, suitable for both engaging audio content and focused reading. It differentiates from Spotify's green, Audible's orange, and Apple's vibrant gradients.
   * **Secondary/Accent:**
     + **Warm Coral/Terracotta (#FF7F50 or #E2725B):** To provide energy, warmth, and highlight calls-to-action or new content. It pairs well with teal, creating a sophisticated yet inviting contrast. This can be used more sparingly than the primary.
     + **Soft Cream/Off-White (#F8F5F0):** For backgrounds. Warmer and more bookish/comfortable than stark white, but still clean.
     + **Charcoal Gray (#36454F):** For primary text, offering excellent readability and a softer alternative to pure black.
     + **Muted Gold/Ochre (#B08D57):** For secondary highlights, icons, or indicating premium features. Adds a touch of elegance.
   * **Reference Insights:**
     + **Audible:** Strong single brand color (orange) with dark backgrounds.
     + **Spotify:** Distinctive green.
     + **Apple Podcasts:** Uses vibrant gradients, often with a light UI.
     + **Google Podcasts:** Uses the Google color palette, functional and clean.
     + **Whisprly's Approach:** A sophisticated primary color with a warm accent offers a unique, inviting feel.
3. **Typography:**
   * **Headings (Brand Font):** A clean, modern, slightly rounded sans-serif.
     + Examples: **Nunito Sans, Montserrat, Gibson, or Poppins.**
     + Characteristics: Approachable, highly legible, good range of weights for hierarchy.
   * **Body Text (UI Font):** A highly readable, neutral sans-serif.
     + Examples: **Open Sans, Lato, Inter, or Roboto.**
     + Characteristics: Optimized for on-screen reading across various sizes.
   * **Feel:** Clear, contemporary, and comfortable for extended reading and Browse.
   * **Reference Insights:** All references use clean sans-serif fonts, emphasizing readability and modernity.
4. **Imagery & Iconography:**
   * **Imagery:**
     + **Primary Focus:** High-quality podcast cover art and book covers will be the heroes.
     + **Supporting Imagery:** Abstract backgrounds using subtle textures (like fine paper grain or soft soundwave patterns) in brand colors. Lifestyle photos could depict people comfortably listening or reading in inspiring environments (clean, well-lit, cozy).
     + Avoid overly stocky or generic photos. Authenticity is key.
   * **Iconography:**
     + **Style:** Minimalist, clean, and consistent. Likely outline style with options for a filled state when active/selected.
     + **Custom Icons:** For key navigation elements like "Podcasts," "Books," "Library," "Creator," "Admin." The icons should subtly align with the brand (e.g., the book icon might have a slightly rounded edge, the podcast icon might incorporate a subtle element from the main logo).
     + Standard icons for play, pause, search, settings, etc., should match the custom style.
   * **Reference Insights:**
     + All platforms heavily rely on cover art.
     + Iconography is universally clean and functional. Spotify's icons are very distinctive to their brand.
5. **UI/UX Principles (Visual Manifestation):**
   * **Clarity & Simplicity:** Easy-to-navigate interface. Prioritize content discovery.
   * **Spaciousness:** Generous use of white space (or the chosen cream background) to reduce clutter and improve focus.
   * **Visual Hierarchy:** Clear distinction between headings, body text, interactive elements, and content blocks using typography, color, and spacing.
   * **Card-Based Design:** For displaying podcasts and books, allowing for rich visuals (cover art) and concise information.
   * **Subtle Depth:** Soft shadows or layering to give a sense of dimension and delineate sections, but avoid heavy skeuomorphism.
   * **Visual Connection:** When displaying a podcast, the related books section should feel visually integrated but distinct. When on a book page, related podcasts should have a similar harmonious integration. Perhaps a subtle connecting line or shared background element for these related sections.
   * **Responsive & Accessible:** Design must adapt beautifully to all screen sizes and adhere to WCAG guidelines (as stated in NFRs). This means good color contrast and legible fonts are paramount.

**How Whisprly Differentiates from References (Visually):**

* **vs. Audible:** Whisprly is less about a singular, bold color like Audible's orange and more about a balanced, sophisticated palette (Teal + Coral). It aims for a slightly lighter, more modern feel than Audible's often darker, dense interface.
* **vs. Apple Podcasts:** While Apple uses gradients and very light UI, Whisprly opts for solid, rich primary colors and a warmer background, feeling less "OS-integrated" and more like a distinct destination.
* **vs. Spotify:** Whisprly avoids the energetic, almost neon green of Spotify. Its teal and coral palette aims for a more composed, thoughtful, and slightly less "social/youthful" vibe, leaning into the intellectual curiosity aspect.
* **vs. Google Podcasts:** Google's design is very functional and uses its corporate multi-color palette. Whisprly aims for a more curated, premium, and aesthetically distinct brand identity, less utilitarian.

## ****Entity-Relationship Diagram (ERD)**** – Textual Format

### 🧑 ****Users****

* user\_id (PK)
* name
* email
* password
* role (listener, creator, admin)
* created\_at

**Relationships:**

* One user can **upload many** podcasts and books (if creator).
* One user can **subscribe to many** podcasts.
* One user can **download many** books.

### 🎙️ ****Podcasts****

* podcast\_id (PK)
* title
* description
* category
* cover\_image
* created\_by (FK → Users)
* created\_at
* status (published, pending, rejected)

**Relationships:**

* One podcast has **many episodes**.
* One podcast can be **linked to many books**.
* One podcast has **many subscribers** (many-to-many via subscriptions).

### 🎧 ****Episodes****

* episode\_id (PK)
* podcast\_id (FK → Podcasts)
* title
* audio\_file
* duration
* release\_date

**Relationships:**

* Belongs to one podcast.

### 📚 ****Books****

* book\_id (PK)
* title
* description
* pdf\_file
* topic (text)
* uploaded\_by (FK → Users)
* linked\_podcast\_id (FK → Podcasts, optional)
* created\_at

**Relationships:**

* Can be **linked to one podcast** (optional).
* Can be **downloaded by many users**.

### 🔔 ****Subscriptions****

* subscription\_id (PK)
* user\_id (FK → Users)
* podcast\_id (FK → Podcasts)
* subscribed\_at

**Relationships:**

* Many users subscribe to many podcasts (many-to-many).

### 📥 ****Downloads****

* download\_id (PK)
* user\_id (FK → Users)
* book\_id (FK → Books)
* downloaded\_at

**Relationships:**

* Tracks which users download which books.

### 🧑‍⚖️ ****Admin Moderation Logs**** (optional)

* log\_id (PK)
* admin\_id (FK → Users)
* action\_type (approve, reject, ban, etc.)
* target\_type (user, podcast, book)
* target\_id
* timestamp
* notes

-- USERS TABLE

CREATE TABLE users (

user\_id INT AUTO\_INCREMENT PRIMARY KEY,

name VARCHAR(100) NOT NULL,

email VARCHAR(150) NOT NULL UNIQUE,

password VARCHAR(255) NOT NULL,

role ENUM('listener', 'creator', 'admin') DEFAULT 'listener',

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FULLTEXT(name, email)

) ENGINE=InnoDB;

-- PODCASTS TABLE

CREATE TABLE podcasts (

podcast\_id INT AUTO\_INCREMENT PRIMARY KEY,

title VARCHAR(150) NOT NULL,

description TEXT,

category VARCHAR(100),

cover\_image VARCHAR(255),

created\_by INT NOT NULL,

status ENUM('published', 'pending', 'rejected') DEFAULT 'pending',

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FULLTEXT(title, description),

FOREIGN KEY (created\_by) REFERENCES users(user\_id) ON DELETE CASCADE

) ENGINE=InnoDB;

-- EPISODES TABLE

CREATE TABLE episodes (

episode\_id INT AUTO\_INCREMENT PRIMARY KEY,

podcast\_id INT NOT NULL,

title VARCHAR(150) NOT NULL,

audio\_file VARCHAR(255) NOT NULL,

duration INT, -- in seconds

release\_date DATE,

FULLTEXT(title),

FOREIGN KEY (podcast\_id) REFERENCES podcasts(podcast\_id) ON DELETE CASCADE

) ENGINE=InnoDB;

-- BOOKS TABLE

CREATE TABLE books (

book\_id INT AUTO\_INCREMENT PRIMARY KEY,

title VARCHAR(150) NOT NULL,

description TEXT,

pdf\_file VARCHAR(255) NOT NULL,

topic VARCHAR(100),

uploaded\_by INT NOT NULL,

linked\_podcast\_id INT,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FULLTEXT(title, description, topic),

FOREIGN KEY (uploaded\_by) REFERENCES users(user\_id) ON DELETE CASCADE,

FOREIGN KEY (linked\_podcast\_id) REFERENCES podcasts(podcast\_id) ON DELETE SET NULL

) ENGINE=InnoDB;

-- SUBSCRIPTIONS TABLE (many-to-many: users ↔ podcasts)

CREATE TABLE subscriptions (

subscription\_id INT AUTO\_INCREMENT PRIMARY KEY,

user\_id INT NOT NULL,

podcast\_id INT NOT NULL,

subscribed\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

UNIQUE(user\_id, podcast\_id),

FOREIGN KEY (user\_id) REFERENCES users(user\_id) ON DELETE CASCADE,

FOREIGN KEY (podcast\_id) REFERENCES podcasts(podcast\_id) ON DELETE CASCADE

) ENGINE=InnoDB;

-- DOWNLOADS TABLE (many-to-many: users ↔ books)

CREATE TABLE downloads (

download\_id INT AUTO\_INCREMENT PRIMARY KEY,

user\_id INT NOT NULL,

book\_id INT NOT NULL,

downloaded\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

UNIQUE(user\_id, book\_id),

FOREIGN KEY (user\_id) REFERENCES users(user\_id) ON DELETE CASCADE,

FOREIGN KEY (book\_id) REFERENCES books(book\_id) ON DELETE CASCADE

) ENGINE=InnoDB;

-- OPTIONAL: ADMIN LOGS TABLE

CREATE TABLE admin\_logs (

log\_id INT AUTO\_INCREMENT PRIMARY KEY,

admin\_id INT NOT NULL,

action\_type ENUM('approve', 'reject', 'ban', 'unban', 'delete') NOT NULL,

target\_type ENUM('user', 'podcast', 'book') NOT NULL,

target\_id INT NOT NULL,

notes TEXT,

timestamp TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (admin\_id) REFERENCES users(user\_id) ON DELETE CASCADE

) ENGINE=InnoDB;

**General / Public Pages (Accessible to All)**

1. **Page Title:** Whisprly: Discover Podcasts and Related Books
   * **Content:**
     + Main landing page.
     + Hero section with a compelling value proposition (e.g., "Your Next Favorite Podcast and Book Awaits").
     + Highlights of popular/trending podcasts and books.
     + Browse by category links.
     + Call to action buttons for "Sign Up" and "Login."
     + Brief explanation of Whisprly's concept.
     + Footer with links to About Us, Contact, Terms, Privacy Policy.
2. **Page Title:** Sign Up - Whisprly
   * **Content:**
     + Registration form:
       - Email address
       - Password
       - Confirm Password
       - Option to sign up as "Listener" or "Creator."
     + Links to OAuth providers (Google, Apple).
     + Link to "Already have an account? Login."
     + Link to Terms of Service and Privacy Policy.
3. **Page Title:** Login - Whisprly
   * **Content:**
     + Login form:
       - Email address
       - Password
     + "Forgot Password?" link.
     + Links to OAuth providers (Google, Apple).
     + Link to "Don't have an account? Sign Up."
4. **Page Title:** Forgot Password - Whisprly
   * **Content:**
     + Form to enter email address to send a password reset link.
     + "Back to Login" link.
5. **Page Title:** Reset Password - Whisprly
   * **Content:**
     + Form to enter new password and confirm new password (accessed via email link).
     + "Back to Login" link.
6. **Page Title:** Browse Podcasts - Whisprly
   * **Content:**
     + Search bar (for name, tag, speaker).
     + Filtering options (category, popularity, trending).
     + Grid or list view of podcast series thumbnails, titles, and brief descriptions.
     + Pagination for large results.
7. **Page Title:** Browse Books - Whisprly
   * **Content:**
     + Search bar (for title, author, topic).
     + Filtering options (category/genre).
     + Grid or list view of book covers, titles, and brief descriptions.
     + Indication if book is readable in-app or an external link.
     + Pagination for large results.
8. **Page Title:** [Podcast Series Name] - Whisprly
   * **Content:**
     + Podcast series details: Cover art, title, creator, description, categories/tags.
     + "Subscribe" button.
     + List of episodes:
       - Episode title, number, duration, release date.
       - Play button for each episode.
       - Download button (if applicable/premium).
     + Section for "Related Books" linked to this podcast (covers, titles, links).
9. **Page Title:** Listening to [Episode Name] - [Podcast Series Name] - Whisprly
   * **Content:**
     + Embedded audio player: play/pause/seek controls, volume.
     + Adjustable playback speed control.
     + Episode title, podcast series name.
     + Show notes/description for the episode.
     + Link back to the main podcast series page.
     + Option to "Add to Library" or "Bookmark position."
10. **Page Title:** [Book Title] - Whisprly
    * **Content:**
      + Book details: Cover, title, author, description, genre, publication date.
      + Option to "Read in-app" (if PDF hosted and user has access) or "View on [Amazon/Google Books]" (external link).
      + "Add to Library" button.
      + Section for "Related Podcasts" that recommend this book.

**Listener Pages (Require Login)**

1. **Page Title:** My Library - Whisprly
   * **Content:**
     + Tabs or sections for "Saved Podcasts," "Saved Books," "Playlists."
     + List of subscribed podcast series.
     + List of saved individual podcast episodes (with bookmarked positions).
     + List of saved books (with bookmarked positions).
     + Functionality to create, view, and manage playlists.
2. **Page Title:** My Subscriptions - Whisprly
   * **Content:**
     + A list of all podcast series the user is subscribed to.
     + Links to each podcast series page.
     + Option to unsubscribe.
     + Indication of new episodes.
3. **Page Title:** Account Settings - Whisprly
   * **Content:**
     + Profile information (username, email - option to change password).
     + Notification preferences.
     + Subscription status (if premium features exist).
     + Option to manage linked OAuth accounts.
     + Delete account option.

**Creator Pages (Require Login as Creator)**

1. **Page Title:** Creator Dashboard - Whisprly
   * **Content:**
     + Overview/summary: Total uploads, total followers/subscribers, basic analytics (e.g., recent plays).
     + Links to "Upload New Podcast Episode," "Upload New Book," "Manage My Content."
     + Quick view of recent uploads and their status (pending approval, approved).
2. **Page Title:** Upload Podcast Episode - Whisprly
   * **Content:**
     + Form for uploading a new podcast episode:
       - Select existing podcast series or create new.
       - Episode title, number, description.
       - Audio file upload (MP3, etc.).
       - Metadata (tags, speaker).
       - Section to link related books (search existing books or add new ones with affiliate links).
     + "Submit for Review" button.
3. **Page Title:** Upload Book - Whisprly
   * **Content:**
     + Form for uploading a new book (if directly hosting PDFs):
       - Book title, author, description, genre.
       - PDF file upload.
       - Cover image upload.
       - Option to link to existing podcasts.
     + "Submit for Review" button.
     + (Alternatively, if only linking: Form to add book details and affiliate links).
4. **Page Title:** Manage My Content - Whisprly
   * **Content:**
     + List of all podcasts and books uploaded by the creator.
     + Status for each item (Pending, Approved, Rejected with reason).
     + Options to edit metadata or delete content (if allowed by platform rules).
     + Basic analytics for each piece of content (plays, views, downloads).

**Admin Pages (Require Login as Admin)**

1. **Page Title:** Admin Dashboard - Whisprly
   * **Content:**
     + Overview statistics: Total users, total creators, content pending approval, reported items.
     + Quick links to "User Management," "Content Moderation," "Categories Management," "Reports."
2. **Page Title:** User Management - Admin - Whisprly
   * **Content:**
     + Searchable and sortable list of all users (listeners, creators).
     + View user details, role, registration date, status.
     + Actions: Ban/unban user, change user role, delete user.
3. **Page Title:** Content Moderation - Admin - Whisprly
   * **Content:**
     + Queues for:
       - Pending podcast approvals.
       - Pending book approvals.
       - Reported content.
     + For each item: View details, preview content.
     + Actions: Approve, Reject (with reason), Ban content.
4. **Page Title:** Category Management - Admin - Whisprly
   * **Content:**
     + List of existing podcast and book categories/genres.
     + Functionality to add new categories, edit existing ones, or delete categories.
5. **Page Title:** Reports - Admin - Whisprly
   * **Content:**
     + Interface to generate and view reports:
       - Usage statistics (active users, podcast plays, book views).
       - Trending content.
       - Creator activity.
     + Options to filter reports by date range, etc.