Planning Document

Website Name: SpeakeasySounds

Website Description:
SpeakeasySounds is a modern hub for sharing and discovering music, reminiscent of the secretive and exclusive jazz bars of the past. The platform is designed to evoke a sense of nostalgia and exclusivity, while providing modern functionalities for users to engage with music in a social context. It allows users to share albums, songs, experiences, and their opinions about music. Users can post short updates related to music, follow other users, like and comment on posts. The platform aims to be a vibrant community for music enthusiasts to connect, discover new music, and share their musical journey.
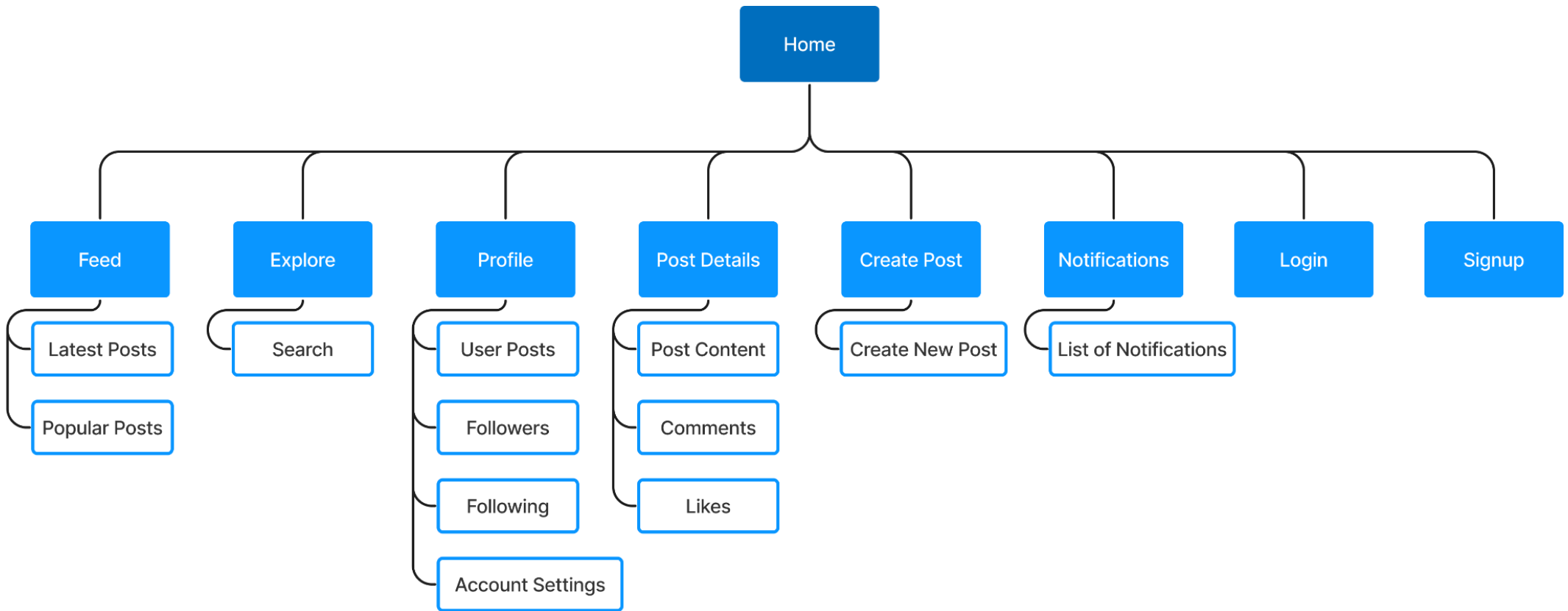
Target Audience:
The primary target audience for SpeakeasySounds includes:
- Music enthusiasts aged 18-35.
- Individuals who enjoy discovering new music and sharing their musical experiences.
- Users who are active on social media and are looking for a platform focused on music.
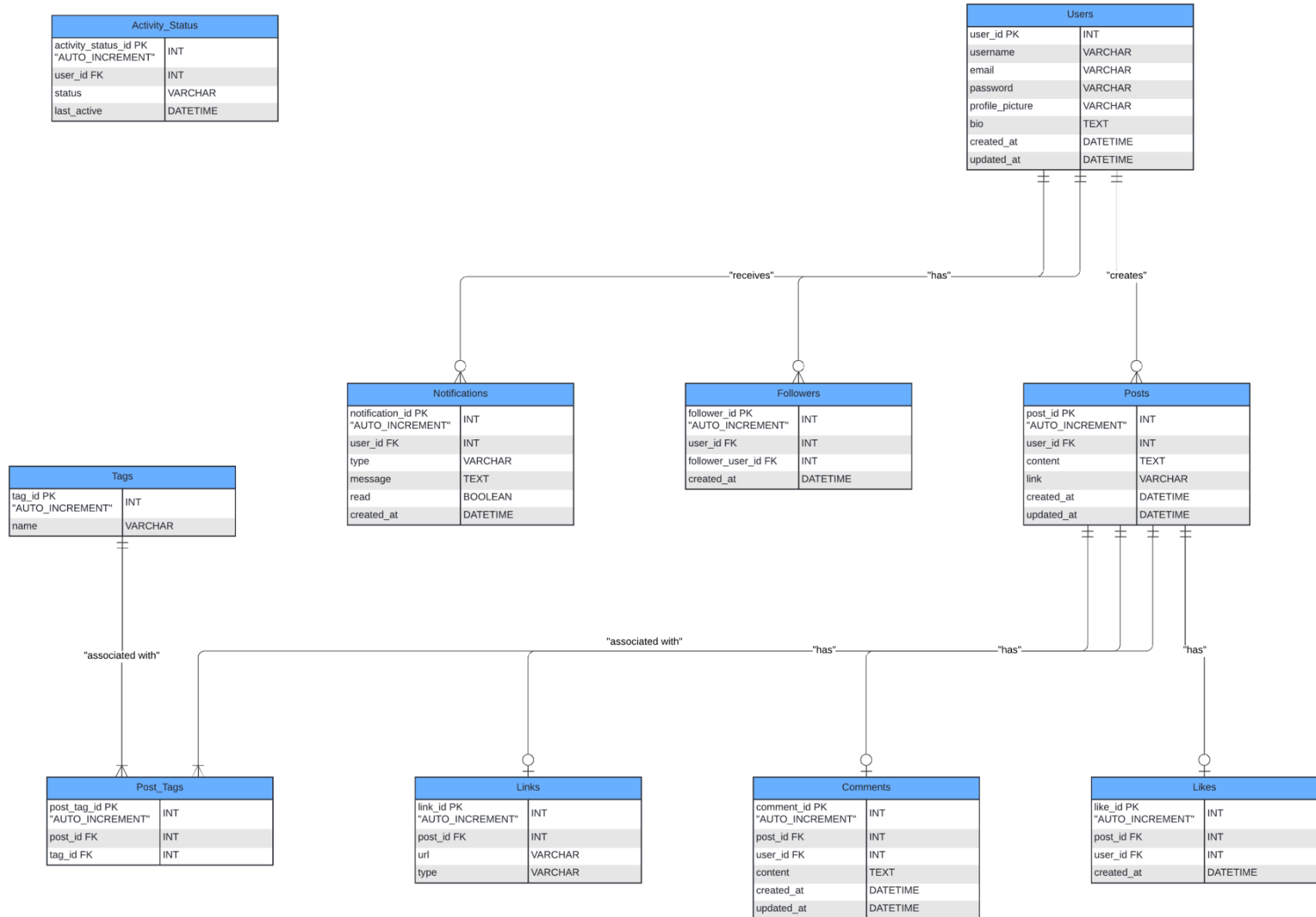
Style and Aesthetic:
SpeakeasySounds embodies a sleek, modern, and minimalist design aesthetic. The website's interface is clean and user-friendly, featuring a monochromatic colour scheme with accents of bold, classic colours like deep blue and silver. The typography is elegant yet readable, with a mix of serif fonts for headings and sans-serif fonts for body text to maintain readability.

Sitemap

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                                    ┌──────────┐
                                    │   Home   │
                                    └──────────┘

┌────────┐  ┌─────────┐  ┌─────────┐  ┌──────────────┐  ┌─────────────┐  ┌───────────────┐  ┌───────┐  ┌────────┐
│  Feed  │  │ Explore │  │ Profile │  │ Post Details │  │ Create Post │  │ Notifications │  │ Login │  │ Signup │
└────────┘  └─────────┘  └─────────┘  └──────────────┘  └─────────────┘  └───────────────┘  └───────┘  └────────┘
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Feed
- Latest Posts
- Popular Posts

Explore
- Search

Profile
- User Posts
- Followers
- Following
- Account Settings

Post Details
- Post Content
- Comments
- Likes

Create Post
- Create New Post

Notifications
- List of Notifications

UML

Activity_Status

activity_status_id PK "AUTO_INCREMENT"	INT
user_id FK	INT
status	VARCHAR
last_active	DATETIME

Users

user_id PK	INT
username	VARCHAR
email	VARCHAR
password	VARCHAR
profile_picture	VARCHAR
bio	TEXT
created_at	DATETIME
updated_at	DATETIME

"receives"   "has"   "creates"

Notifications

notification_id PK "AUTO_INCREMENT"	INT
user_id FK	INT
type	VARCHAR
message	TEXT
read	BOOLEAN
created_at	DATETIME

Followers

follower_id PK "AUTO_INCREMENT"	INT
user_id FK	INT
follower_user_id FK	INT
created_at	DATETIME

Posts

post_id PK "AUTO_INCREMENT"	INT
user_id FK	INT
content	TEXT
link	VARCHAR
created_at	DATETIME
updated_at	DATETIME

Tags

tag_id PK "AUTO_INCREMENT"	INT
name	VARCHAR

"associated with"   "associated with"   "has"   "has"   "has"

Post_Tags

post_tag_id PK "AUTO_INCREMENT"	INT
post_id FK	INT
tag_id FK	INT

Links

link_id PK "AUTO_INCREMENT"	INT
post_id FK	INT
url	VARCHAR
type	VARCHAR

Comments

comment_id PK "AUTO_INCREMENT"	INT
post_id FK	INT
user_id FK	INT
content	TEXT
created_at	DATETIME
updated_at	DATETIME

Likes

like_id PK "AUTO_INCREMENT"	INT
post_id FK	INT
user_id FK	INT
created_at	DATETIME

IPO Chart

Element	Input	Process	Output
User Registration	User details (username, email, password)	Validate input, hash password, create user record	New user created, confirmation message
User Login	User credentials (email, password)	Validate input, verify credentials, start session	User logged in, session started
Edit User Settings	User settings (username, email, password, bio, profile picture)	Validate input, update user record in the database	User settings updated, confirmation message
Create Post	Post details (content, link, user ID)	Validate input, create post record	New post created, displayed in feed
Edit Post	Updated post details (post ID, content, link)	Validate input, update post record	Post updated, changes reflected in feed
Delete Post	Post ID	Validate user ownership, delete post record	Post deleted, confirmation message
Add Comment	Comment details (post ID, content, user ID)	Validate input, create comment record	New comment added to post

Edit Comment	Updated comment details (comment ID, content)	Validate input, update comment record	Comment updated, changes reflected
Delete Comment	Comment ID	Validate user ownership, delete comment record	Comment deleted, confirmation message
Like Post	Like details (post ID, user ID)	Check if already liked, create like record	Post liked, like count updated
Unlike Post	Like ID	Validate ownership, delete like record	Post unliked, like count updated
Follow User	Follow details (user ID, follower ID)	Validate relationship, create follow record	New following relationship created
Unfollow User	Follow ID	Validate ownership, delete follow record	Following relationship removed
Tag Post	Tag details (post ID, tag ID)	Validate input, create post_tag record	Post tagged, tag added
Untag Post	Post_Tag ID	Validate ownership, delete post_tag record	Tag removed from post

Add Link	Link details (post ID, URL, type)	Validate input, create link record	Link added to post
Remove Link	Link ID	Validate ownership, delete link record	Link removed from post
Notification	Activity details (user ID, type, message)	Validate input, create notification record	Notification created, user notified
Read Notification	Notification ID	Validate input, update notification read status	Notification marked as read
User Activity	User activity details (user ID, status)	Validate input, create/update activity_status record	User status updated