

Database Schema Documentation

Story Schema

A **Story** represents a user-generated story with multiple chapters, ratings, and metadata.

Fields

Field	Type	Description
_id	ObjectId	Unique identifier for the story, automatically generated by MongoDB.
userId	ObjectId	Reference to the User who created the story.
text	string	(Deprecated) Original story text, replaced by chapters .
style	string	The style or theme of the story (e.g., "Adventure", "Fantasy").
voice	string	The voice type used for audio narration.
image	string	URL or path to the story's cover image.
audioUrl	string	(Deprecated) URL to the audio file for the entire story.
rating	number	Average user rating for the story, ranging from 1 to 5.
ratingCount	number	Total number of ratings received for the story.
createdAt	Date	Timestamp when the story was created.
chapters	Array	An array of chapters, each containing:
- title	string	Title of the chapter.
- description	string	Brief description or summary of the chapter.
- text	string	Full text content of the chapter.
- audioUrl	string	URL to the audio file for the chapter.
- generated	boolean	Indicates if the chapter has been generated.
- audioGenerated	boolean	Indicates if the audio for the chapter has been generated.
ageGroup	string	Target age group for the story (e.g., "6-8 years").
gender	string	Gender of the main character (e.g., "Male", "Female").
name	string	Name of the main character.
character	string	Description of the main character (e.g., "A brave knight").
hobbies	Array	List of hobbies or interests of the main character.

TypeScript Code

```
import { ObjectId } from 'mongodb';

export interface Story {
  _id?: ObjectId;
  userId: ObjectId;
  text?: string; // Deprecated: use chapters instead
  style: string;
  voice: string;
  image: string; // URL or path to the image
  audioUrl?: string; // URL to the generated audio file (mp3)
  rating: number; // Average user rating for the story (1-5)
  ratingCount?: number; // Number of ratings received
  createdAt: Date;
  chapters: Array<{
    title: string;
    description?: string;
    text: string;
    audioUrl?: string;
    generated: boolean;
    audioGenerated?: boolean;
  }>;
  ageGroup: string;
  gender: string;
  name: string;
  character: string;
  hobbies: string[];
}
```

SupportIssue Schema

A **SupportIssue** represents a user-reported issue or feedback.

Fields

Field	Type	Description
_id	ObjectId	Unique identifier for the support issue, automatically generated by MongoDB.
type	string	Type of support issue (e.g., "Bug Report", "Feature Request").
description	string	Detailed description of the issue.
createdAt	Date	Timestamp when the support issue was created.

TypeScript Code

```
import { ObjectId } from 'mongodb';

export interface SupportIssue {
  _id?: ObjectId;
```

```
type: string;
description: string;
createdAt: Date;
}
```

User Schema

A **User** represents an individual using the platform, with details about their preferences, subscriptions, and activity.

Fields

Field	Type	Description
_id	ObjectId	Unique identifier for the user, automatically generated by MongoDB.
name	string	Full name of the user.
email	string	Email address of the user.
profile	string	URL or path to the user's profile picture.
gender	string	Gender of the user (e.g., "Male", "Female", "Other").
ageGroup	string	Age group of the user (e.g., "18-24 years").
hobbies	Array	List of hobbies or interests of the user.
isPremium	boolean	Indicates if the user has a premium subscription.
subscriptionId	string	Identifier for the user's subscription plan.
tokens	number	Number of tokens available for the user to use.
dailyStoryCount	number	Number of stories the user can create daily.
preferences	Array	List of user preferences (e.g., "Fantasy", "Adventure").
createdAt	Date	Timestamp when the user account was created.
storyCreationCredits	number	(Deprecated) Credits for creating stories, replaced by storyListenCredits .
storyListenCredits	number	Credits available for generating and listening to stories.
listenedChapters	Array	List of chapters the user has listened to, grouped by story, containing:
- storyId	ObjectId	Reference to the Story schema.
- chapters	Array	Array of chapter indices the user has listened to.
stripeCustomerId	string	Stripe customer ID for payment processing.

Field	Type	Description
stripeSubscriptionId	string	Stripe subscription ID for the user's premium plan.
premiumExpiresAt	Date	Expiration date of the user's premium subscription.

TypeScript Code

```
import { ObjectId } from 'mongodb';

export interface User {
  _id?: ObjectId;
  name: string;
  email: string;
  profile: string;
  gender: string;
  ageGroup: string;
  hobbies: string[];
  isPremium: boolean;
  subscriptionId: string;
  tokens: number;
  dailyStoryCount: number;
  preferences: string[];
  createdAt: Date;
  storyCreationCredits?: number; // Deprecated – now using
storyListenCredits for both generation and listening
  storyListenCredits: number;
  listenedChapters?: Array<{ storyId: ObjectId; chapters: number[] }>;
  stripeCustomerId?: string;
  stripeSubscriptionId?: string;
  premiumExpiresAt?: Date;
}
```