Database model documentation

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1. Model details

Model name:

CodeBase

Version:

2.4

Database engine:

PostgreSQL

Description:

Forum for coders.

2. Tables

2.1. Table user

Description:

Represents a user of the forum.

2.1.1. Columns

Column name	Type	Properties	Description
id	serial	PK	The user identifier.
created	timestamp		Time when the user was created.
name	varchar(16)		The user name.
password	varchar(256)		The user password.
description	text	null	User's description.
deleted	boolean		The state of the user in the database.

2.1.2. Alternate keys

Key name	Columns	Description
username	name	The username should be unique in the database.

2.2. Table post

Description:

Represents the data model of a post.

2.2.1. Columns

Column name	Type	Properties	Description
id	serial	PK	The post identifier.
user_id	int		
created	timestamp		Time when the post was created.
title	varchar(32)		
content	text		The post description.
number_likes	smallint		The sum of liking and unliking interactions in the post.

number_comments	smallint		The number of comments in the post.
deleted	boolean		The state of the post in the database.

2.2.2. Indexes

Index name	Columns	Description
post_idx_user	user_id (ASC)	Index for the user who made the post.

2.3. Table comment

Description:

Represents a comment in a post. Comments are dependant of posts and also dependant of users.

2.3.1. Columns

Column name	Type	Properties	Description
id	serial	PK	The comment identifier.
post_id	int	PK	
user_id	int	PK	
created	timestamp		Time when the comment was created.
content	varchar(256)		The comment description.
number_likes	smallint		The sum of liking and unliking interactions in the comment.
deleted	boolean		The state of the comment in the database.

2.3.2. Indexes

Index name	Columns	Description
comment_idx_user	user_id (ASC)	Index for user in comment.
comment_idx_post	post_id (ASC)	Comment index for post.

3. References

3.1. Reference post_user

user	0..*	post
id	<->	user_id

3.2. Reference comment_post

post	0..*	comment
id	<->	post_id

3.3. Reference comment_user

user	0..*	comment
id	<->	user_id