**Package database**

Package database contains classes the Server needs for interfacing with the database. It provides an access point between the server and the generated packages.

**Class Name**: Store

**Class Description**: Store handles connecting with the database and provides an instance of Queries for utilizing the sqlc generated code for parameterized queries.

**Class Data Members**: \*sql.DB DB, \*generated.Queries Queries

**Class Methods**: New(): Store, Connect(), Disconnect()

**Package database.generated**

The database.generated package contains code generated by sqlc which is created from the schema of the database and queries for that database.

**Class Name**: AdminAssignment

**Class Description**: A model of an entry in the AdminAssignments table.

**Class Data Members**: int64 ID, int64 AssignedTo, int64 AssignedBy, bool isDeactivation

**Class Name**: BanAction

**Class Description**: A model of an entry in the BanActions table.

**Class Data Members**: int64 ID, int64 TakenBy, int64 TargetUser, string Reason, int64 TakenOn, string Domain, bool SetBannedTo

**Class Name**: Comment

**Class Description**: A model of an entry in the Comments table.

**Class Data Members**: int64 ID, int64 PathId, string Author, string Content, time.Time CreatedAt, int64 Parent, bool Hidden, bool Removed

**Class Name**: CommentModerationAction

**Class Description**: A model of an entry in the CommentModerationActions table.

**Class Data Members**: int64 ID, int64 TakenBy, int64 CommentId, string Reason, time.Time TakenOn, bool SetHiddenTo, bool SetRemovedTo, int64 AssociatedReport

**Class Name**: CommentReport

**Class Description**: A model of an entry in the Comments table.

**Class Data Members**: int64 ID, int64 ReportingUser, int64 Comment, string Reason, bool ActionTaken, time.Time TimeCreated

**Class Name**: Domain

**Class Description**: A model of an entry in the Domains table.

**Class Data Members**: string ID

**Class Name**: DomainBan

**Class Description**: A model of an entry in the DomainBans table.

**Class Data Members:** int64 UserID, string BannedFrom, int64 BannedBy, time.Time BannedAt

**Class Name**: DomainModeratorAssignment

**Class Description**: A model of an entry in the DomainModeratorAssignments table.

**Class Data Members:** int64 ID, string Domain, int64 AssignedTo, int64 AssingedBy, time.Time AssignedAt, boolean isDeactivation

**Class Name**: Feedback

**Class Description**: A model of an entry in the DomainBans table.

**Class Data Members:** int64 ID, int64 UserID, string Type, time.Time SubmittedAt, string Content, boolean Hidden

**Class Name**: GlobalModeratorAssignment

**Class Description**: A model of an entry in the GlobalModeratorAssignments table.

**Class Data Members:** int64 ID, int64 AssignedTo, time.Time GrantedAt, int64 AssignedBy, boolean IsDeactivation

**Class Name**: Log

**Class Description**: A model of an entry in the Logs table.

**Class Data Members:** int64 ID, int64 User, string IP, string URL

**Class Name**: PasswordResetCode

**Class Description**: A model of an entry in the PasswordResetCodes table.

**Class Data Members:** int64 ID, int64 UserID, string VerifyCode, time.Time CreatedOn

**Class Name**: Path

**Class Description**: A model of an entry in the Paths table.

**Class Data Members:** int64 ID, string Domain, string Path

**Class Name**: Report

**Class Description**: A model of an entry in the Reports table.

**Class Data Members:** int64 ID, int64 ReportingUser, int64 Comment, string Reason, bool ActionTaken

**Class Name**: User

**Class Description**: A model of an entry in the Users table.

**Class Data Members:** int64 ID, string Username, string Password, string Email, time.Time CreatedAt, time.Time LastLogin, string ProfileBlurb, boolean Banned, boolean isVeirified

**Class Name**: ValidationCode

**Class Description**: A model of an entry in the ValidationCodes table.

**Class Data Members:** int64 ID, int64 UserID, string VerifyCode, time.Time CreatedOn

**Class Name**: VoteRecord

**Class Description**: A model of an entry in the VoteRecords table.

**Class Data Members:** int64 CommentId, string Category, int64 UserId, int8 Value

**Class Name**: Queries

**Class Description**: A generated struct which provides methods and parameter structs for each database query used by Comment Anywhere.

**Class Data Members:** int64 CommentId, string Category, int64 UserId, int8 Value

**Class Methods:**

CreateDomainModeratorAssignment(context.Context, CreateDomainModeratorAssignmentParams),

CreateGlobalModeratorAssignment(context Context, CreateGlobalModeratorAssignmentParams),

CreateDomainBanRecord(context Context, CreateDomainBanRecordParams),

UpdateUserBanStatus(ctx context.Context, UpdateUserBanStatusParams),

UpdateUserEmail(ctx context.Context, UpdateUserEmailParams),

UpdateFeedbackHidden(context.Context, UpdateFeedbackHiddenParams),

UpdateUserBlurb(context.Context, UpdateUserBlurbParams),

CreateComment(context.Context, CreateCommentParams),

CreateCommentVote(context.Context, CreateCommentVoteParams),

UpdateCommentVote(context.Context, UpdateCommentVoteParams),

DeleteCommentVote(context.Context, DeleteCommentVoteParams),

CreateFeedback(context.Context, CreateFeedbackParams),

GetCommentsAtPath(context.Context, int64 pathID): []GetCommentsAtPathRow,

GetCommentVotes(context.Context, int64 commentID): []GetCommentVotesRow,

GetUserByUserID(context.Context, int64 id): User,

CreateModerationRecord(context.Context, CreateModerationRecordParams),

UpdateCommentHidden(context.Context, UpdateCommentHiddenParams),

UpdateCommentRemove(context.Context, UpdateCommentRemoveParams),

CreateLog(context.Context, CreateLogParams),

GetDomainModeratorAssignments(context.Context, int64 id),

GetGlobalModeratorAssignments(context.Context, int64 id),

GetAdminAssignments(context.Context, int64 id),

GetUserByUsername(context.Context, string username) : User,

UpdateUserLastLogin(context.Context, int64 id),

CreateCommentReport(context.Context, CreateCommentReportParams),

CreateUser(context.Context, CreateUserParams),

DeleteUser(context.Context, int64 id),

GetUserByUsername(context.Context, string username): User,

GetUserByEmail(context.Context, string email): User,

UpdateUserPassword(context.Context, UpdateUserPasswordParams),

UpdateUserVerification(context.Context, UpdateUserVerificationParams),

CreateVerificationRecord(context.Context, CreateVerificationRecordParams)

GetVerificationRecord(context.Context, int64 userID): []VerificationCode,

DeleteVerificationRecords(context.Context, int64 userID),

GetPWResetRecord(context.Context, int64 userID): []PasswordResetCode,

CreatePWResetRecord(context.Context, CreatePWResetRecordParams),

DeletePWResetRecords(context.Context, int64 userID),

GetBanRecords(context.Context): []GetBanRecordsRow

GetCommentReports(context.Context, Boolean actionTaken): []GetCommentReportsRow

GetFeedback(context.Context, Boolean hidden) []GetFeedbackRow

GetLogsForDateRange(context.Context, GetLogsForDateRangeParams): []GetLogsForDateRangeRow

GetModRecordsForModerator(context.Context, int64 id): []GetModRecordsForModeratorRow

GetDomainModerators(context.Context, string domain): []GetDomainModeratorsRow

GetGlobalModerators(context.Context): []GetGlobalModeratorsRow

GetAdmins(context.Context): []GetAdminsRow

GetNewestUser(context.Context): User

GetUserCount(context.Context): int64

GetLogsForIP(context.Context, string IP): []GetLogsForIPRow

GetLogsForUser(context.Context, int64 userID): []GetLogsForUserRow

**Class Name:** GetLogsForUserRow

**Class Description:** The result of executing the GetLogsForUser method of the Queries object.

**Class Data Members:** int64 ID, string ID, string Url, time.Time AtTime

**Class Name:** GetLogsForIP

**Class Description:** The result of executing the GetLogsForUser method of the Queries object.

**Class Data Members:** int64 ID, int64 UserID, string Username, string Url, time.Time AtTime

**Class Name:** GetAdminsRow

**Class Description:** The result of executing the GetGlobalModerators method of the Queries object.

**Class Data Members:** int64 ID, int64 AssignedTo, string AssignedToUsername, time.Time AssignedAt, int64 AssignedBy, string AssignedByUsername

**Class Name:** GetGlobalModeratorsRow

**Class Description:** The result of executing the GetGlobalModerators method of the Queries object.

**Class Data Members:** int64 ID, int64 AssignedTo, string AssignedToUsername, time.Time AssignedAt, int64 AssignedBy, string AssignedByUsername

**Class Name:** GetDomainModeratorsRow

**Class Description:** The result of executing the GetDomainModerators method of the Queries object.

**Class Data Members:** int64 ID, int64 AssignedTo, string AssignedToUsername, time.Time AssignedAt, int64 AssignedBy, string AssignedByUsername

**Class Name:** GetModRecordsForModeratorRow

**Class Description:** The result of executing the GetLogsForDateRange method of the Queries object.

**Class Data Members:** int64 ID, int64 TakenBy, string Username, int64 CommentID, string Reason, time.Time TakenOn, Boolean SetHiddenTo, Boolean SetRemovedTo, int64 AssociatedReport

**Class Name:** GetLogsForDateRangeRow

**Class Description:** The result of executing the GetLogsForDateRange method of the Queries object.

**Class Data Members:** int64 ID, int64 UserID, string Username, string IP, string URL

**Class Name:** GetFeedbackRow

**Class Description:** The result of executing the GetFeedback method of the Queries object.

**Class Data Members:** int64 ID, int64 UserID, string Username, string Type, time.Time SubmittedAt, string Content, Boolean Hidden

**Class Name:** GetCommentReportsRow

**Class Description:** The result of executing the GetCommentReports method of the Queries object.

**Class Data Members:** int64 ID, int64 ReportingUser, string Username, int64 Comment, string Reason, bool ActionTaken, time.Time TimeCreated

**Class Name:** GetBanRecordsRow

**Class Description:** The result of executing the GetBanRecords method of the Queries object.

**Class Data Members:** int64 ID, int64 TakenBy, string TakenByUsername, int64 TargetUser, string TargetUsername, string Reason, time.Time takenOn, string Domain, bool SetBannedTo

**Class Name:** CreatePWResetRecordParams

**Class Description:** Parameters used for executing the CreatePWResetRecord method of the Queries object.

**Class Data Members:** in64 UserID, stirng VerifyCode

**Class Name:** CreateVerificationRecordParams

**Class Description:** Parameters used for executing the CreateVerificationRecord method of the Queries object.

**Class Data Members**: int64 UserID, string VerifyCode

**Class Name:** UpdateUserVerificationParams

**Class Description:** Parameters used for executing the UpdateUserVerification method of the Queries object.

**Class Data Members**: int64 ID, Boolean IsVerified

**Class Name:** UpdateUserPasswordParams

**Class Description:** Parameters used for executing the UpdateUserPassword method of the Queries object.

**Class Data Members:** int64 ID, string Password

**Class Name**: CreateDomainModeratorAssignmentParams

**Class Description**: Parameters used for executing the CreateDomainModeratorAssignment method of the Queries object.

**Class Data Members**: string Domain, int64 AssignedTo, int64 AssignedBy, bool isDeactivation

**Class Name**: CreateGlobalModeratorAssignmentParams

**Class Description**: Parameters used for executing the CreateGlobalModeratorAssignment method of the Queries object.

**Class Data Members**: int64 AssignedTo, int64 AssignedBy, Boolean isDeactivation

**Class Name**: CreateDomainBanRecordParams

**Class Description**: Parameters used for executing the CreateGlobalModeratorAssignment method of the Queries object.

**Class Data Members**: int64 TakenBy, int64 TargetUser, string Reason, string Domain, Boolean SetBannedTo

**Class Name**: UpdateUserBanStatusParams

**Class Description:** Parameters used for executing the UpdateUserBanStatus method of the Queries object.

**Class Data Members:** int64 ID, Boolean Banned

**Class Name**: UpdateUserEmailParams

**Class Description:** Parameters used for executing the UpdateUserEmail method of the Queries object.

**Class Data Members:** int64 ID, string Email

**Class Name**: UpdateFeedbackHiddenParams

**Class Description:** Parameters used for executing the UpdateFeedbackHidden method of the Queries object.

**Class Data Members:** int64 ID, bool Hidden

**Class Name:** UpdateUserBlurbParams

**Class Description:** Parameters used for executing the UpdateUserBlurb method of the Queries object.

**Class Data Members:** in64 ID, string ProfileBlurb

**Class Name:** CreateCommentParams

**Class Description:** Parameters used for executing the CreateComment method of the Queries object.

**Class Data Members:** int64 PathID, int64 Author, string Content, int64 Parent

**Class Name:** CreateCommentVoteParams

**Class Description:** Parameters used for executing the CreateCommentVote method of the Queries object.

**Class Data Members:** int64 CommentID, string Category, int64 UserID, int8 Value

**Class Name:** UpdateCommentVoteParams

**Class Description:** Parameters used for executing the UpdateCommentVote method of the Queries object.

**Class Data Members:** int64 UserID, int64 CommentID, int8 Value

**Class Name:** DeleteCommentVoteParams

**Class Description:** Parameters used for executing the DeleteCommentVote method of the Queries object.

**Class Data Members:** int64 UserID, int64 CommentID

**Class Name:** CreateFeedbackParams

**Class Description:** Parameters used for executing the CreateFeedback method of the Queries object.

**Class Data Members:** int64 UserID, string Type, string Content

**Class Name:** GetCommentsAtPathRow

**Class Description:** The result of executing the GetCommentsAtPath method of the Queries object.

**Class Data Members:** int64 ID, int64 Author, string Content, time.Time CreatedAt, int64 Parent, Boolean Hidden, Boolean Removed, string Username

**Class Name:** GetCommentVotesRow

**Class Description:** The result of executing the GetCommentVotes method of the Queries object.

**Class Data Members:** int64 UserID, string Category, int8 Value

**Class Name:** CreateModerationRecordParams

**Class Description:** Parameters used for executing the CreateModerationRecord method of the Queries object.

**Class Data Members:** int64 TakenBy, int64 CommentID, string Reason, Boolean SetHiddenTo, Boolean SetRemovedTo, int64 AssociatedReport

**Class Name:** UpdateCommentHiddenParams

**Class Description:** Parameters used for executing the UpdateCommentHidden method of the Queries object.

**Class Data Members:** int64 ID, Boolean Hidden

**Class name:** UpdateCommentRemoveParams

**Class Description:** Parameters used for executing the UpdateCommentRemove method of the Queries object.

**Class Data Members:** int64 ID, Boolean Removed

**Class name:** CreateLogParams

**Class Description:** Parameters used for executing the CreateLog method of the Queries object.

**Class Data Members:** int64 UserID, string IP, string URL

**Class Name:** GetUserAssignmentRow

**Class Description:** The result of executing the GetUserAdminAssignments method of the Queries object.

**Class Data Members:** int64 ID, time.Time AssignedAt

**Class Name:** GetUserDomainModeratorAssignmentsRow

**Class Description:** The result of executing the GetUserDomainModeratorAssignments method of the Queries object.

**Class Data Members:** int64 ID, time.Time AssignedAt, string Domain

**Class Name:** GetUserGlobalModeratorAssignmentsRow

**Class Description:** The result of executing the GetUserGlobalModeratorAssignments method of the Queries object.

**Class Data Members:** int64 ID, time.Time AssignedAt

**Class Name:** CreateCommentReportParams

**Class Description:** Parameters used for executing the CreateCommentReport method of the Queries object.

**Class Data Members:** int64 ReportingUser, int64 Comment, string Reason

**Class Name:** CreateUserParams

**Class Description:** Parameters used for executing the CreateUser method of the Queries object.

**Class Data Members:** string Username, string Password, string Email

**Example Generated Code**

// Code generated by sqlc. DO NOT EDIT.

// versions:

//   sqlc v1.15.0

// source: commentReports.sql

package generated

import (

    "context"

    "database/sql"

)

const createCommentReport = `-- name: CreateCommentReport :exec

INSERT INTO "CommentReports" (

    reporting\_user,

    comment,

    reason

) VALUES ($1, $2, $3)

`

type CreateCommentReportParams struct {

    ReportingUser *int64*          `json:"reporting\_user"`

    Comment       *int64*          `json:"comment"`

    Reason        sql.NullString `json:"reason"`

}

func (q \*Queries) CreateCommentReport(ctx context.Context, arg CreateCommentReportParams) *error* {

    \_, err := q.db.ExecContext(ctx, createCommentReport, arg.ReportingUser, arg.Comment, arg.Reason)

    return err

}

**Package Database – Functional Descriptions**

**Class Store**

New(): Store

Input: None

Output: Instantiates a new Store and returns it.

Connect()

Input: None

Output: Uses environment variables configured in .env to connect to the Postgres server on another port.

Disconnect()

Input: None

Output: Disconnects from the Postgres instance.

**Class Queries**

CreateDomainModeratorAssignment(context.Context, CreateDomainModeratorAssignmentParams)

Input: A CreateDomainModeratorAssignmentParams object.

Output: Inserts a new record into the DomainModeratorAssignments table.

CreateGlobalModeratorAssignment(context Context, CreateGlobalModeratorAssignmentParams)

Input: A CreateGlobalModeratorAssignmentParams object.

Output: Inserts a new record into the GlobalModeratorAssignments table.

CreateDomainBanRecord(context Context, CreateDomainBanRecordParams)

Input: A CreateDomainBanRecordParams object.

Output: Inserts a new record into the BanRecords table.

UpdateUserBanStatus(ctx context.Context, UpdateUserBanStatusParams)

Input: A UpdateUserBanStatusParams object.

Output: Updates the users banned status in the Users table.

UpdateUserEmail(ctx context.Context, UpdateUserEmailParams)

Input: A UpdateUserEmailParams object.

Output: Updates the users email in the Users table.

UpdateFeedbackHidden(context.Context, UpdateFeedbackHiddenParams),

Input:

Output:

UpdateUserBlurb(context.Context, UpdateUserBlurbParams),

Input:

Output:

CreateComment(context.Context, CreateCommentParams),

Input:

Output:

CreateCommentVote(context.Context, CreateCommentVoteParams),

Input:

Output:

UpdateCommentVote(context.Context, UpdateCommentVoteParams),

Input:

Output:

DeleteCommentVote(context.Context, DeleteCommentVoteParams),

Input:

Output:

CreateFeedback(context.Context, CreateFeedbackParams),

Input:

Output:

GetCommentsAtPath(context.Context, int64 pathID): []GetCommentsAtPathRow,

Input:

Output:

GetCommentVotes(context.Context, int64 commentID): []GetCommentVotesRow,

Input:

Output:

GetUserByUserID(context.Context, int64 id): User

Input:

Output:

CreateModerationRecord(context.Context, CreateModerationRecordParams)

Input:

Output:

UpdateCommentHidden(context.Context, UpdateCommentHiddenParams)

Input:

Output:

UpdateCommentRemove(context.Context, UpdateCommentRemoveParams)

Input:

Output:

CreateLog(context.Context, CreateLogParams)

Input:

Output:

GetDomainModeratorAssignments(context.Context, int64 id)

Input:

Output:

GetGlobalModeratorAssignments(context.Context, int64 id)

Input:

Output:

GetAdminAssignments(context.Context, int64 id)

Input:

Output:

GetUserByUsername(context.Context, string username) : User

Input:

Output:

UpdateUserLastLogin(context.Context, int64 id)

Input:

Output:

CreateCommentReport(context.Context, CreateCommentReportParams)

Input:

Output:

CreateUser(context.Context, CreateUserParams)

Input:

Output:

DeleteUser(context.Context, int64 id)

Input:

Output:

GetUserByUsername(context.Context, string username): User

Input:

Output:

GetUserByEmail(context.Context, string email): User

Input:

Output:

UpdateUserPassword(context.Context, UpdateUserPasswordParams)

Input:

Output:

UpdateUserVerification(context.Context, UpdateUserVerificationParams)

Input:

Output:

CreateVerificationRecord(context.Context, CreateVerificationRecordParams)

Input:

Output:

GetVerificationRecord(context.Context, int64 userID): []VerificationCode

Input:

Output:

DeleteVerificationRecords(context.Context, int64 userID)

Input:

Output:

GetPWResetRecord(context.Context, int64 userID): []PasswordResetCode

Input:

Output:

CreatePWResetRecord(context.Context, CreatePWResetRecordParams)

Input:

Output:

DeletePWResetRecords(context.Context, int64 userID)

Input:

Output:

GetBanRecords(context.Context): []GetBanRecordsRow

Input:

Output:

GetCommentReports(context.Context, Boolean actionTaken): []GetCommentReportsRow

Input:

Output:

GetFeedback(context.Context, Boolean hidden) []GetFeedbackRow

Input:

Output:

GetLogsForDateRange(context.Context, GetLogsForDateRangeParams): []GetLogsForDateRangeRow

Input:

Output:

GetModRecordsForModerator(context.Context, int64 id): []GetModRecordsForModeratorRow

Input:

Output:

GetDomainModerators(context.Context, string domain): []GetDomainModeratorsRow

Input:

Output:

GetGlobalModerators(context.Context): []GetGlobalModeratorsRow

Input:

Output:

GetAdmins(context.Context): []GetAdminsRow

Input:

Output:

GetNewestUser(context.Context): User

Input:

Output:

GetUserCount(context.Context): int64

Input:

Output:

GetLogsForIP(context.Context, string IP): []GetLogsForIPRow

Input:

Output:

GetLogsForUser(context.Context, int64 userID): []GetLogsForUserRow

Input:

Output: