

# GroupManager Documentation

## Overview

GroupManager is used to create and manage groups.

It supports creating groups, adding/removing members, deleting groups, and getting group info.

## Data Structure

### Group

- id → unique ID (UUID)
- name → group name
- creator\_id → ID of the group creator
- created\_at → timestamp of creation
- members → list of user IDs

## Public Methods

- createGroup(name, creator\_id, members) → Creates a new group.
- deleteGroup(group\_id) → Deletes a group.
- addMember(group\_id, user\_id) → Adds a user to a group.
- removeMember(group\_id, user\_id) → Removes a user from a group.
- getGroup(group\_id) → Returns group details.
- isMember(group\_id, user\_id) → Checks if a user is in a group.
- getUserGroups(user\_id) → Returns all groups that the user belongs to.

## Implementation Details

- Groups are stored in database.
- Group IDs are generated using UUID.
- Creator is always added as a member automatically.