Attachment E – Class Diagrams of ANS CR Single Help Desk

Contents

class Base app

TagName
- id: int
- name: string

+ newTag(string): void
+ delete(): void

User
- id: int
- username: string
- name: string
- surname: string
- password: string
- role: int
- room: int

+ addUser(String, String, String, int, String): String
+ changePassword(String, int): void
+ checkPassword(String, int): Boolean
+ searchUsers(String): User
+ getUser(int): User
+ deleteUser(int): void
+ assignRole(int, int): void

Email
- domain: int
- email: String
- id: int
- priority: int
- userID: int

+ getEmail(int): Email
+ addEmail(String, int, int): void
+ modifyEmail(int, String, int): void
+ modifyPriority(int, int): void
+ delete(): void

EmailDomains
- id: int
- domain: string
- predefined: boolean

+ getDomain(int): string
+ newDomain(string, boolean): void
+ modify(): int
+ delete(): void

Tag
- id: int
- name: int
- owner: int
- target: int

+ addTag(int, int, int): void
+ searchTag(string): User
+ deleteTag(int): void

PhoneCodes
- id: int
- code: int
- normalLength: int

+ getcode(int): int
+ newCode(int): void
+ modify(): void
+ delete(): void

Phone
- code: int
- number: int
- id: int
- priority: int
- userID: int

+ getPhone(int): Phone
+ addPhone(String, int, int): void
+ modifyPhone(int, int, int, int): void
+ delete(): void

Role
- id: int
- name: int
- permissions: int

+ createRole(): void
+ modify(): void
+ delete(): void

Log
- id: int
- time: timedate
- user: int
- operation: int

+ newOperation(int, int, timedate): void
+ searchLogs(string): Log
+ getOperation(int): Log

Permission
- id: int
- role: int
- activity: int
- permission: int

+ changePermissions(int, int, int): void
+ create(): void
+ delete(): void

Activity
- id: int
- name: int
- description: int

+ getAction(int): Activity
+ add(): void

Errors
- id: int
- name: string
- description: string
- source: int

+ getOperation(int): string
+ add(): void

Relationship labels: +name 1, +id 0..*, +id, +owner 1, +id 1..*, +target 1..*, +id 1..*, +userID +id 1.. *, +userID 1, +id, +id 0..*, +id +user 1, 1..*, +role 1, +permiss +role 1..* 0..*, +id 0..*, +operation 1, +id 0..*, +operation 1, +activity 1, 1..*, +source 0..1, +id 0..*, +id +domain 0..* 1, +code +id 1 0..*

2

class Service desk

Announcement
- id: int
- name: string
- body: string
- author: int
- tags: int
- created: timedate

+ createAnnouncement(string, string, int, int, timedate): void
+ searchAnnouncement(string): Announcement
+ delete(): void
+ modify(): void

Base app::TagName
- id: int
- name: string

+ newTag(string): void
+ delete(): void

Base app::User
- id: int
- username: string
- name: string
- surname: string
- password: string
- role: int
- room: int

+ addUser(String, String, String, int, String): String
+ changePassword(String, int): void
+ checkPassword(String, int): Boolean
+ searchUsers(String): User
+ getUser(int): User
+ deleteUser(int): void
+ assignRole(int, int): void

Base app::Email
- domain: int
- email: String
- id: int
- priority: int
- userID: int

+ getEmail(int): Email
+ addEmail(String, int, int): void
+ modifyEmail(int, String, int): void
+ modifyPriority(int, int): void
+ delete(): void

Base app::EmailDomains
- id: int
- domain: string
- predefined: boolean

+ getDomain(int): string
+ newDomain(string, boolean): void
+ modify(): int
+ delete(): void

Base app::Tag
- id: int
- name: int
- owner: int
- target: int

+ addTag(int, int, int): void
+ searchTag(string): User
+ deleteTag(int): void

Base app::PhoneCodes
- id: int
- code: int
- normalLength: int

+ getcode(int): int
+ newCode(int): void
+ modify(): void
+ delete(): void

Base app::Phone
- code: int
- number: int
- id: int
- priority: int
- userID: int

+ getPhone(int): Phone
+ addPhone(String, int, int): void
+ modifyPhone(int, int, int, int): void
+ delete(): void

Base app::Role
- id: int
- name: int
- permissions: int

+ createRole(): void
+ modify(): void
+ delete(): void

Base app::Log
- id: int
- time: timedate
- user: int
- operation: int

+ newOperation(int, int, timedate): void
+ searchLogs(string): Log
+ getOperation(int): Log

Base app::Permission
- id: int
- role: int
- activity: int
- permission: int

+ changePermissions(int, int, int): void
+ create(): void
+ delete(): void

Base app::Activity
- id: int
- name: int
- description: int

+ getAction(int): Activity
+ add(): void

Base app::Errors
- id: int
- name: string
- description: string
- source: int

+ getOperation(int): string
+ add(): void

Relationship labels: +id, 0..*, +tags, 1..*, +author 1, +name 1, +id 0..*, +owner 1, +target 1..*, +role 1, +user 1..*, +userID 1.. *, +id 1, +domain 1, +code 1, +id 0..*, +role 0..*, +permissions 1..*, +id 1..*, +activity 1, +source 0..1, +operation 1, +id 0..*