

Notification
<ul style="list-style-type: none">- notificationID: int- message: String- users: User[*]

Admin
<ul style="list-style-type: none">- adminId: Integer- adminName: String
<ul style="list-style-type: none">+ manageUsers(database: Database): List<User>+ viewUserStats(database: Database): void+ sendInvitation(userEmail: String, database: Database): void+ deleteUser(userId: Integer, database: Database): Boolean

IsroUser
<div><div>- isroUserId: Integer</div><div>- isroUserRole: String</div></div>
<div><div>+ uploadVideo(videoInfo: String, database: Database): Video</div><div>+ classifyVideo(videoId: Integer, genre: VideoGenre, database: Database): void</div><div>+ searchVideo(keyword: String, database: Database): List<Video></div><div>+ viewStats(database: Database): void</div><div>+ viewRecommendations(keyword: String, database: Database): List<Video></div></div>

GeneralUser
- generalUserId: Integer
+ searchVideo(keyword: String, database: Database): List<Video> + viewVideoContent(): Video + viewRecommendations(keyword: String, database: Database): List<Video>

VideoClassification

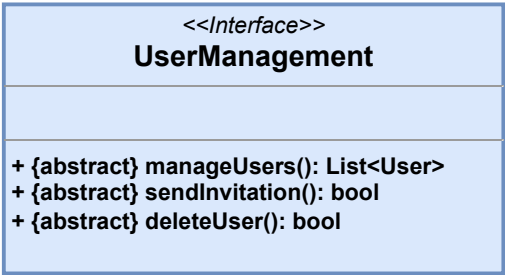
- classificationId: Integer
- video: Video
- userId: int
- selectedGenre: String

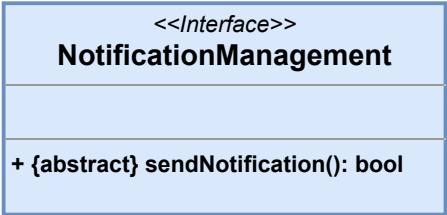
- + classifyVideo(videoId: Integer, userId: Integer, genre: VideoGenre, database: Database): void
- + getRecommendedVideos(userId: Integer, database: Database): List<Video>

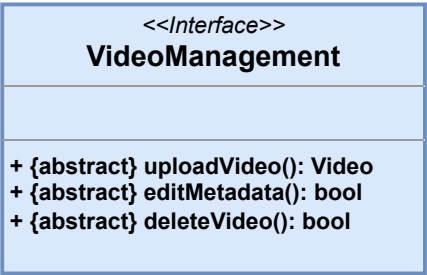
Dashboard

- **userId: int**
- **uploadedVideos: List<Video>**
- **classifiedVideos: List<VideoClassification>**

- + **viewUploadedVideos(userId: Integer, database: Database): List<Video>**
- + **viewClassifiedVideos(userId: Integer, database: Database): List<VideoClassification>**
- + **viewStats(userId: Integer, database: Database): void**







Video
<ul style="list-style-type: none">- videoid: int# title: String# description: String# genre: String# filePath: String- metadata: Metadata
<ul style="list-style-type: none">+ play(): void

Metadata
<ul style="list-style-type: none">- title: String- description: String- timestamps: String- duration: int- tags: List<String>- keywords: List<String>
+generateMetadata(): Metadata

Genre
<div>- genrelid: int</div> <div>+ name: String</div>
<div>+ addGenre(): bool</div> <div>+ editGenre(): bool</div> <div>+ deleteGenre(): bool</div>

Database
<div><div><div><div><div><div>+ addUser(user: User): Boolean</div><div>+ getUserById(userId: Integer): User</div><div>+addVideo(): bool</div><div>+getVideoById(): Video</div><div>+ addAdmin(admin: Admin): Boolean</div><div>+ deleteUser(userId: Integer): Boolean</div><div>+ storeVideo(video: Video): Boolean</div><div>+ getClassifications(userId: Integer): List<VideoClassification></div><div>+ addClassification(classification: VideoClassification): Boolean</div><div>+ searchVideo(keyword: String): List<Video></div></div></div></div></div></div>

