| class | Backend | Frontend |
| --- | --- | --- |
| User | +name:string  +google\_id:string  +isBanned:bool  +register():void  +login():void  +listUser():array  +banUser(User):void  +unBanUser(User):void  +getById(id): User  +search: CanSearch |  |
| Song | +title: string  +youtube\_id: string  +create():void  +delete(Song):void  +show():array  +showSongByTagsAnd(array Tag):array  +showSongByTagsOr(array Tag) :array  +play(Song): void  +loopOne(Song):void  +loopList(array<Song>):void  +randomize(array<Song>):void  +share(array<song>):string  +suggestTag: SuggestTag | +search: CanSearch |
| Tag | +name: string  +create():void  +delete(Tag):void  +confirmedTag(Tag):void  +showUnConfirmTag: Array | +search: CanSearch |
| Notification | +type:string  +description:string +show():array |  |
| Report | +type: string  +description: string  +reportSong(Song): void  +reportAnother(String):void  +handleReport(Report):void  +delete(Report): void |  |
| ReportObserver | +notifyToUser(User,Notification):void |  |
| CanSearch | +searchByName() |  |
| SuggestTag | +basicSuggest() |  |