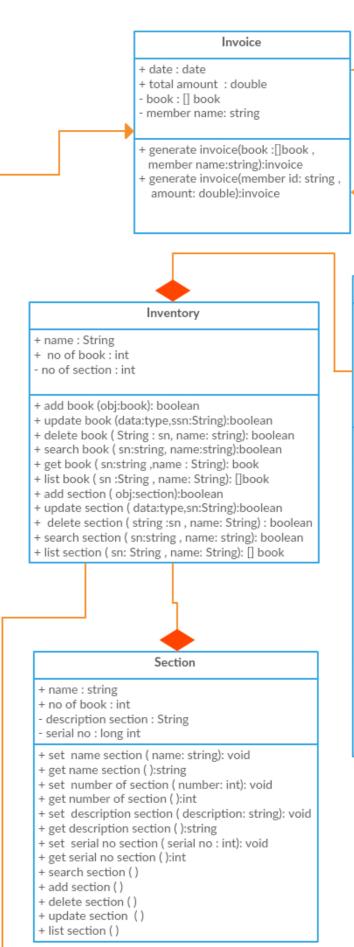
## Librarian + name : String phone no : string Member - salary : double email: string + name : string address : string + phone : string gender: boolean + email: string - ssn : int + address : string - username : string + gender : boolean password : string + ssn: string date of birth : date + date of birth : string - admin : boolean + member name : string + set name (name : string) : void + set name (name: string): void + get name (): string + get name (): string + set username (username : string) : void + set phone (phone: string): void + get username ( ) : string + get phone (): string + set password (password : string) : void + set email (email: string) : void + get password (): string + get email (): string + set email (email: string): void + set address (address: string): void + get email (): string + get address (): string + set ssn (ssn : int) : void + set ssn (ssn: string) : void + get ssn (): int + get ssn (): string + set gender (gender: Boolean) : void + set gender (gender: boolean): void + get gender ( ) : boolean + get gender ( ): boolean + set date of birth (date of birth : string) : void + set date of birth (date of birth: string): void + get date of birth (): string + get date of birth (): string + set admin (admin : Boolean) : void + add member (obj : member ) : boolean + get admin () : Boolean + update member (id : int ) : boolean + set phone (phone : string) : void + delete member (id : int ) : boolean + get phone (): string + search member (id : int ) : boolean + set salary (salary : double) : void + pay fee (id: int, amount: double): boolean + get salary (): double + set address (address: string) : void + get address ( ) : string + add book ( obj : book ) : boolean + update book ( data: type , id : int ): boolean + delete book ( sn : int , name : string): boolean + add section (obj: section): boolean + update section ( sn : int , name : string) : boolean + delete section ( sn : int , name : string) : boolean + add librarian ( obj : librarian ): boolean GUI + update librarian ( sn : int , data : type ): boolean + delete librarian (sn : int , name : string): boolean + add member ( obj : member ) : boolean + Attribute 1 : Type + update member ( data: type , id : int ) : boolean + Attribute 2 : Type + delete member ( id : int ): boolean - Attribute 3 : Type + search member ( id : int): boolean - Attribute 4 : Type + search book (sn : int , name: string) : boolean + Operation 1 ( arg list ) : return + search section ( id : int , name : string ): boolean + Operation 2 ( arg list ) : return + show Invoice ( member id : int , book id : []int): invoice + Operation 3 ( arg list ) : return + show invoice (member id : int , amount: int): invoice + Operation 4 ( arg list ) : return + login ( username: string, password: string): boolean + logout ( ): boolean Database + Attribute 1: Type + Attribute 2 : Type - Attribute 3 : Type Attribute 4: Type + Operation 1 ( arg list ) : return + Operation 2 ( arg list ) : return + Operation 3 ( arg list ) : return

+ Operation 4 ( arg list ) : return



## Book

- serial no : string
- + set sn (sn : string) : void
- + get sn (): string

## 1.." Episode

- + name : String
- + number of book: int
- price : double
- type: string
- description : string
- author: string
- number of paper: int
- publishing house : string
- + set name(name: string): void
- + get name (): string
- + set number of book(number: int): void
- + get number of book (): int
- + set price(price : double): void
- + get price (): double
- + set type(type: string): void
- + get type(): string
- + set description(description: string): void
- + get description (): string
- + set author(author: string): void
- + get author (): string
- + set number of paper(number: int): void
- + get number of paper (): int
- + set publishing house(publishinghouse: string): void + get publishing house (): string
- + add book (obj:book): boolean
- + update book (data: type, sn: string): boolean
- + delete book (sn: string ,name: String): boolean
- + search book (sn: string , name: string): boolean
- + get book (sn: string , name: string): book
- + list book (sn: string , name: string): []book