Class Diagram for Program 7(Library)

DATE

- day: int
- month: int
- -year: int
- date:char[]
- + getvalues(void):void
- + disp_details(void):void
- + operator-(const DATE&): const int
- + operator+(int): const DATE
- + operator=(const DATE&): void
- + ret str(void): char*

BOOK

- name: char[]
- author name: char[]
- acc num:char[]
- quantity: int
- + get_values(char*): void
- + disp details(void): void
- + ret identity(void): char*
- + alter quantity(int): void
- + is possible(int): bool

JOURNAL

- issue num: int
- publish date: DATE
- vol_num: int
- + get_values(char*): void
- + disp details(void): void

TRANSACTION

- transaction id: char[]
- card num: char[]
- acc_num: char[]
- book_or_journal: int
- -student_or_faculty: int
- -issue period: int
- -issue_date: DATE
- -return date: DATE
- -fine: int
- -returned: bool
- -get random(char*,int): void
- + get_values(car*,char*,int): void
- +disp details issue(void):void
- +disp_details_ret(int):void
- +ret identity(void): char*
- +ret_book_or_journal(void): int
- +ret student or faculty(void):int
- +ret card num(void): char*
- +ret acc num(void): char*
- + ret returned(void): bool
- +alter_returned(bool): void
- +ret_return_date(void): DATE

MEMBER

- name: char[]
- card num: char[]
- category: int
- count: int
- max_count: int
- charge: int
- + get_values(char*): void
- + disp details(void): void
- + ret identity(void): char*
- + alter count(int): void
- + is possible(int): bool
- + calculate charge(int): int

LIBRARY

- book_list: char[]
- journal list: char[]
- member_list: char[]
- register list: char[]
- search(char*,char*,int): int
- + LIBRARY(void)
- + add book(void): void
- +add journal(void): void
- + add member(void): void
- + issue_book(void): void
- + issue journal(void): void
- + show_details(void): void
- + ret (void): void