E-Library Project - Group 02

- ❖ Mustafa Uçar
- ❖ Emre Gökrem
- ❖ Tugrul Yatagan
- ❖ Hüseyin Erdoğan

Objectives of Project

- The aim of this project is providing whole library system which is accessible via web.
- Users will be able to see sources and if users are member of the system, they will be rent sources.
- Users will be able to find the location of the sources from website and they can take it actual material from library.
- If a user wants to use electronic sources from website, he/she will be able to find information about electronic source and a link of the electronic source.

Guest Interface

Guest Home Page

- Guest will see this page, when he/she enter to website.
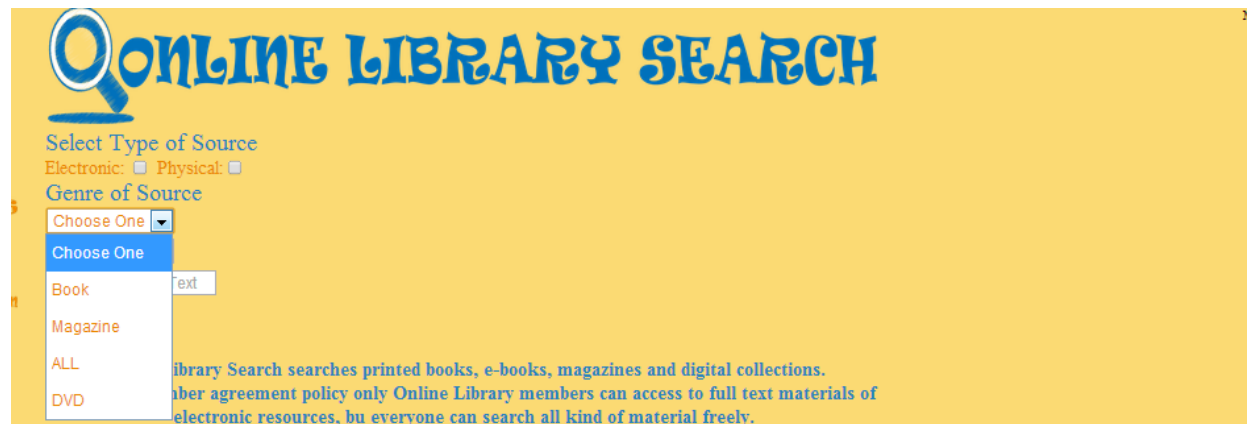
Searching Record

- Guest can search using source's name, type of source and genre of source.

- First drop box have Book, Dvd, Magazine options.

- Second drop box have subspecies of selected type of source. For book : education, engineering, history, novel, science, story, technology. For DVD : education, game, movie, song, documantery. For Magazine :comic, computer, engineering, life, science.

- by the textbox we can search book name, aouthor name, dvd name or magazine name.

- After clicking to search button records are showen
- Under the Rent row, record have link to record page

Name	Author	Category	Publication Year	Rent

FOUND DVDs

Name	Category	Duration	Publication Year	Rent
Battlefield	Game	99	2013	Dvd's Page
Beatles - Please Please Me	Song	60	1963	Dvd's Page
Best of Mozart	Song	126	2000	Dvd's Page
Cosmos	Documentary	60	1980	Dvd's Page
Planet Earth	Documentary	44	2006	Dvd's Page
Sefiller	Movie	150	2012	Dvd's Page
Serenade	Song	4	2007	Dvd's Page

FOUND MAGAZINES

Name	Category	Issue Number	Publication Date	Rent

- Guest can see information about source but they can not rent sources.

- If they want to rent a source, they will see this error message.

Most Populars

- When guest clicks Most Populars on navigation panel, most rented sources are listed.

★ MOST POPULAR 5 BOOKS

Book Name	Author	Category	Publication Year	Popularity	Link
Dava	Franz Kafka	Novel	1925	1	Book's Page
İlahi Komedya-Cehennem	Dante Alieghieri	Novel	2013	0	Book's Page
Tarihe Yön Veren Büyük Komutanlar	Barry Strauss	History	2013	0	Book's Page
Sayısal Elektronik	M. Kaya Yazgan	Engineering	2013	0	Book's Page
Mühendislik Mekaniği Dinamik	Mehmet Bakıoğlu	Education	2012	0	Book's Page

★ MOST POPULAR 5 MAGAZINES

Magazine Name	Issue Number	Category	Publication Year	Popularity	Link
Penguen	2	Comic	2005	1	Magazine's Page
Oyungezer	6	Computer	2005	1	Magazine's Page
Penguen	1	Comic	2004	0	Magazine's Page
Chip	10	Computer	1992	0	Magazine's Page
IEEE	5	Science	1960	0	Magazine's Page

★ MOST POPULAR 5 DVDs

DVD Name	Duration	Category	Publication Year	Popularity	Link
Best of Mozart	126	Song	2000	1	DVD's Page
Sefiller	150	Movie	2012	0	DVD's Page
Beatles - Please Please Me	60	Song	1963	0	DVD's Page
Cosmos	60	Documentary	1980	0	DVD's Page
Battlefield	99	Game	2013	0	DVD's Page

- After clicking links, guest will see page that display information about that source. But guest can not rent any source.

MAGAZINE INFORMATION PAGE   You must login to rent.

Book Name : Penguen Magazine Information
Publication Year : 2004
Category : Comic
Issue : 1
Rental Count : 0

SOURCE'S RECORDS

#	Location	Availability	Rent
1	http://www.penguen.com	Available	RENT
2	Mustafa İnan Kütüphanesi - m2.floor - 4.bookcase - 15.bookshelf - null.order	Available	RENT

Requests & Suggestions

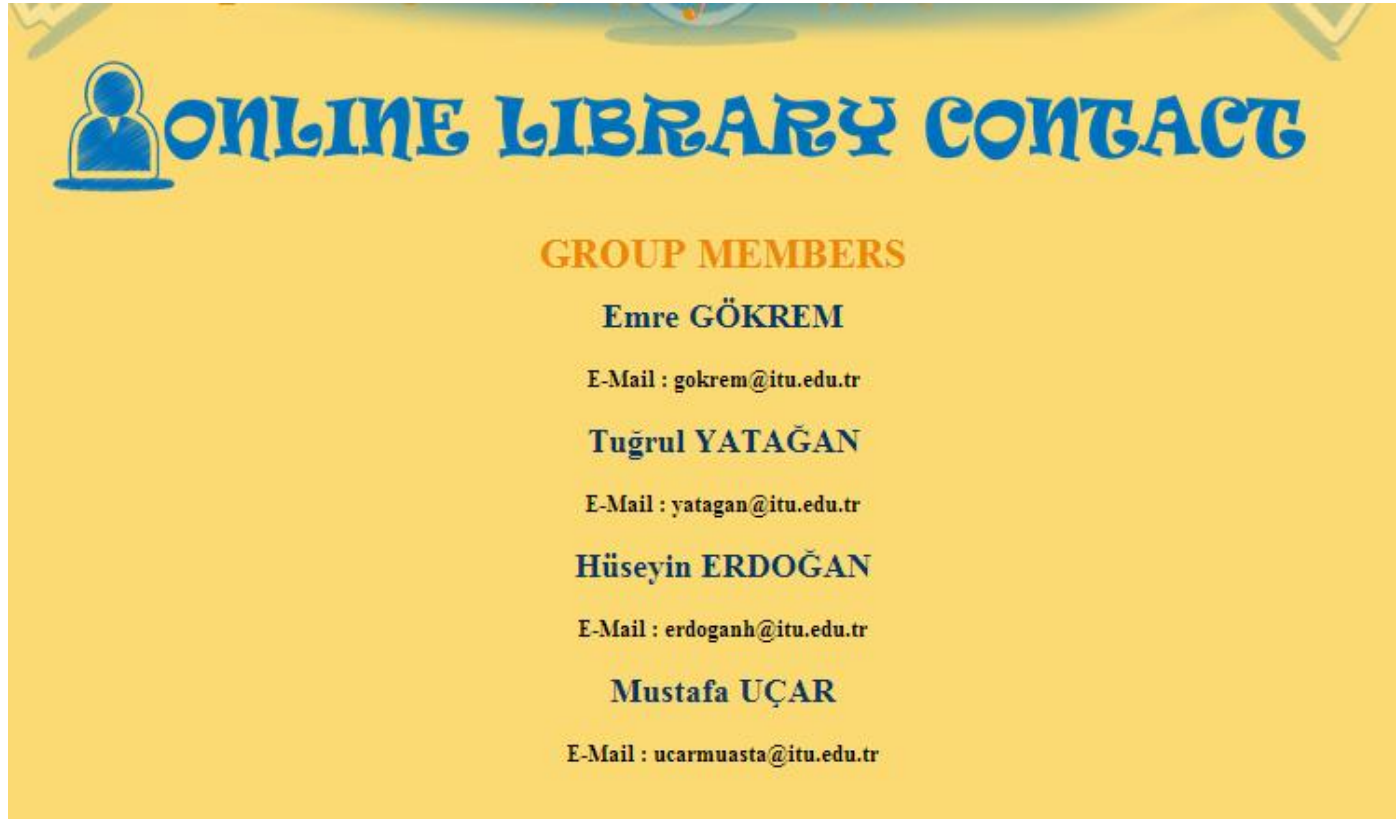- Guest can send request or suggestion to admin for sake of website.

Contact Us

- In this page group members's e-mail adresses are showed so guest can interact with us.

About Us

- In this page information about project is given
- Also informations about libraries that are used in database and links of them are given

ONLINE LIBRARY ABOUT US

INFORMATION ABOUT E-LIBRARY PROJECT

The aim of this project is providing whole library system which is accessible via web. Users will be able to see sources (book, e-book, DVD, magazine etc.) and if users are member of the system, they will be rent sources. Users will be able to find the location of the sources from website and they can take actual material from library. If a user wants to use electronic sources from website, he/she will be able to find information about electronic source and a link of the electronic source. The system will have administrator users. Administrator users will be able to control the system (adding source, deleting source, updating source,). The system will have different searching types (type of source and genre of search). In addition, popular sources will be listed on the website according to popular search topics and popular rented sources. If a user does not enter the system for a year, account of the user will be deleted by the system.

CONTACK INFORMATION ABOUT LIBRARIES

Mustafa İnan Kütüphanesi Tel : (0212) 285 35 96
Mustafa İnan Kütüphanesi hakkında daha fazla bilgi için tıklayın
Makine Fakültesi Ratip Berker Kütüphanesi Tel : (0212) 293 13 00/2163
Makine Fakültesi Ratip Berker Kütüphanesi hakkında daha fazla bilgi için tıklayın

User Interface

Register

- Guest can register anytime by clicking register link under login symbol.
- Guest encounter this page :

- If guest enter another user information, he/she will see this error message.

Bu Kullanıcı Adı Zaten Kayıtlı, Yeniden Deneyin.

Login

- After registering, user can login to website using Username and Password.

- According to user_authority_state from users table, user is redirected to user or admin home page.
- Also user can do everythink that guest can do.

Logout

- User can logout anytime from website by clicking logout icon.
- Also there is name and surname under the logout symbol.

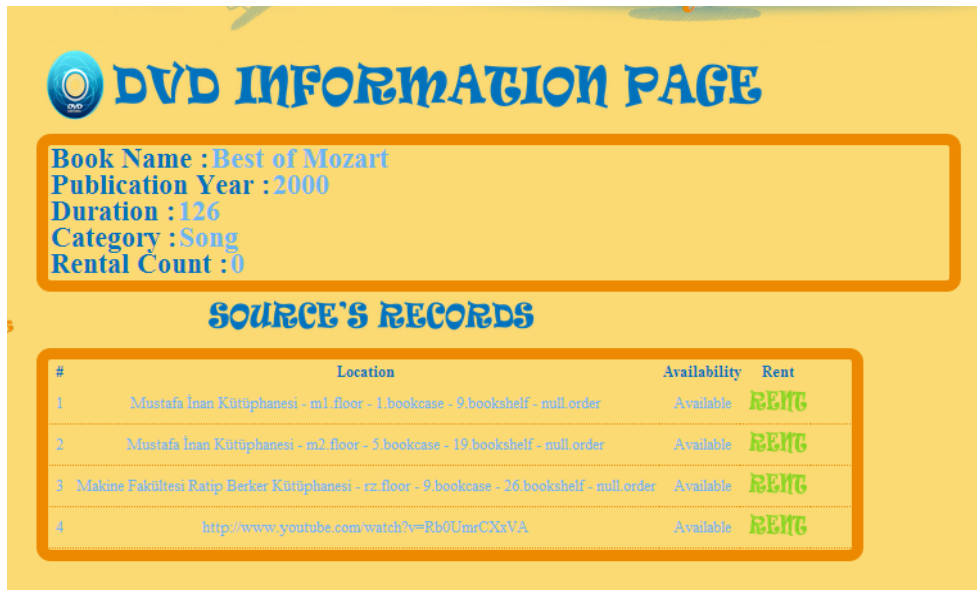- After Logout user is redirected to guest Home Page

User Home Page

- User will see this page, when he/she logins to website.

Searching Records

- Same as guest inteface except renting procedure. User can rent sources which are available. Also user can see location of source and when source is available.

- If user press rent link, he/she will see this message.

- If user want to rent source which is not available, this message will be displayed.

DVD is not available for 30days.

- User also can put source which is not available to waiting list by clicking **WAIT** link in information page.

SOURCE'S RECORDS

#	Location	Availability	Rent	
1	Mustafa İnan Kütüphanesi - m1.floor - 1.bookcase - 9.bookshelf - null.order	Available in 30 days	**RENT**	**WAIT**
2	Mustafa İnan Kütüphanesi - m2.floor - 5.bookcase - 19.bookshelf - null.order	Available	**RENT**	
3	Makine Fakültesi Ratip Berker Kütüphanesi - rz.floor - 9.bookcase - 26.bookshelf - null.order	Available	**RENT**	
4	http://www.youtube.com/watch?v=Rb0UmrCXxVA	Available	**RENT**	

Most Populars Page

- This page is same as guest Most Populars page, except renting procedure. After clicking source's links user can see location of sources and user can rent them.

User Profile

- User can see firstname, surname, last login time and sources which is user waiting for.

- Also there is a link to suggestion and request page and if user sends request, user name will be seen by admins.
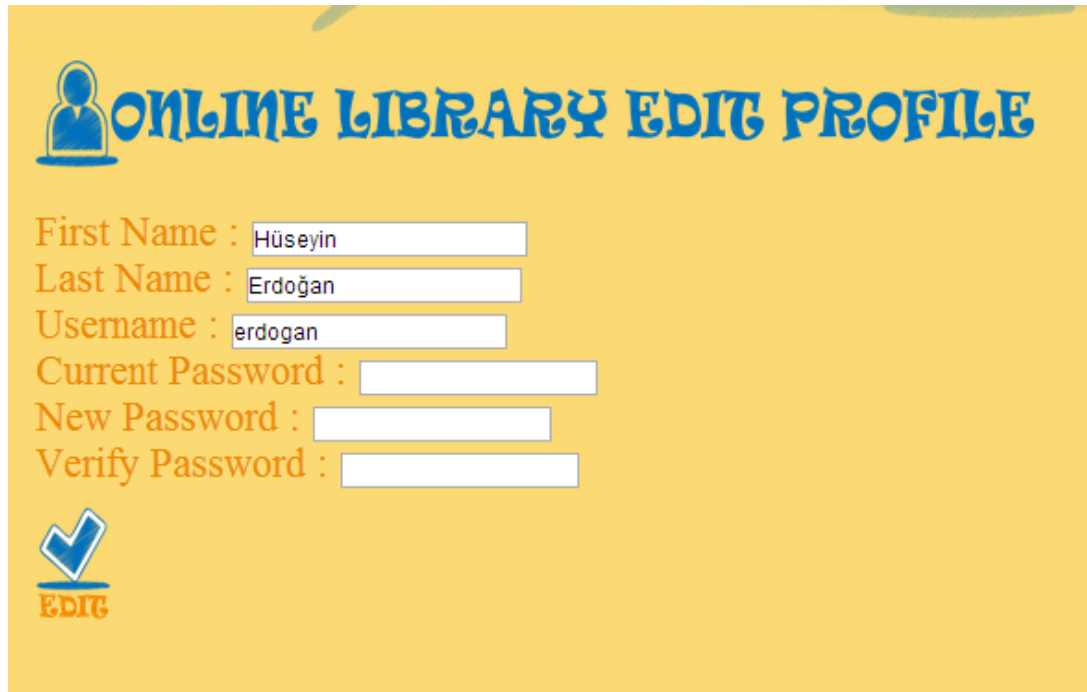
- User can delete sources which are in the waiting source list.

- If user clicks , source which is in waiting list will be deleted.

Edit Profile

- User can change first name, last name, user name and password.
- Current Password is necessary for changing all of this information.

Archive

- In this page sources are listed which are rented by user.

Admin Interface

Admin Home Page

- Admin will see this page, when he/she logins to website.

Admin Profile Page

- Admin will see profil information and last 10 renting process.

Admin Edit Profile

- Same as user edit profil page.

Admin Search

- In this page admins can search any item and also they can delete them, update them and put them to libraries.

FOUND MAGAZINES

Name	Category	Issue Number	Publication Date	Rent
Chip	Computer	10	1992	Magazine's Page
IEEE	Science	5	1960	Magazine's Page
Oyungezer	Computer	6	2005	Magazine's Page
Penguen	Comic	1	2004	Magazine's Page
Penguen	Comic	2	2005	Magazine's Page
Time	Life	6	1923	Magazine's Page

- Search procedure is same as guest and user search procedure. But when admins click to <u>Magazine's Page</u>, he/she will see this page unlike guest and user.

Source Placed Page

- When admin clicks **ADD** , he/she will see Online Library Source Placed Page.

- In this page, admin enters library name and according to library, admin select library floor, bookcase, bookshelf and column number.
- If source is also electronic, admin can enter source's URL.
- Source Placed Page is common for all tree type.(book, DVD, magazine)

Source's Records

- In this part user sees location of sources.
- If user is admin, he/she can edit and delete location of source.

- Admin can delete location of source by clicking

Source's Records Edit Page

- If admin clicks **EDIT** in source's records table, he/she will see this page.
- If there is a need update for source's location, admin can do it in this page.

SOURCE EDIT PAGE

Source Name : Bin Dokuz Yüz Seksen Dört
Library Name: Mustafa İnan Kütüphanesi
Library Floor: m3
Bookcase: g
Bookshelf: gb
Column(1-50): 34

Place Change

Edit Book

- When admin clicks **EDIT** in book information page, he/she will see this page for updating book informations.

Edit DVD

- When admin clicks **EDIT** in DVD information page, he/she will see this page for updating DVD informations.

Edit Magazine

- When admin clicks **EDIT** in magazine information page, he/she will see this page for updating magazine informations.

Delete Source

- When admin clicks   **X**   for any type, he/she will be redirected to admin home page and source will be deleted with all of its records.

Adding Source

- Admins can add source.
- First admin selects type of source(book, magazine, dvd).
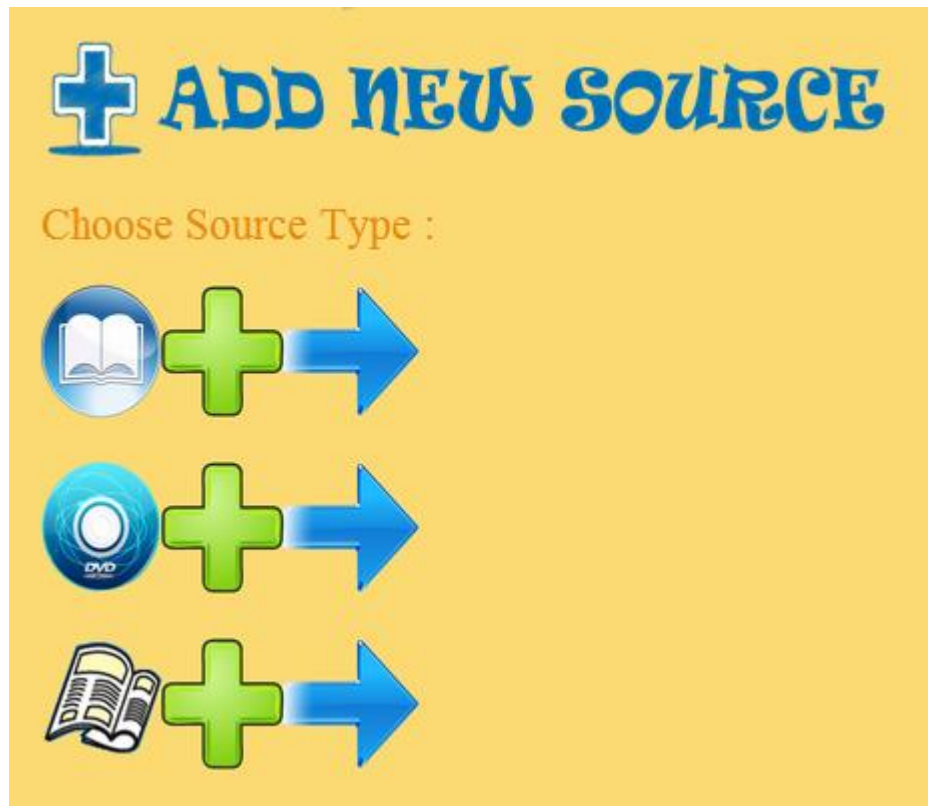
Adding Book

- After selecting type of source, admin enters information of source. For books : book name, author name, publication year, ISBN and book category.

Adding DVD

- For DVDs : DVD name, publication year, duration and DVD category.

Adding Magazine

- For magazines : magazine name, publication year, issue number, and magazine category.

Admin Archive

- Admin can see requests and suggestions in this page.

- Also admin can delete this requests and suggestions.

Database Tables

users

- This table stores user data. Informations in this table as follows:

Name	Type	Not Null	Primary Key
user_id	İnt(11)	Auto increment	1
user_nickname	Varchar(45)	1	0
user_name	Varchar(45)	1	0
user_surname	Varchar(45)	1	0
user_password	Varchar(45)	1	0
user_authority_state	bit(1)	1	0
user_last_access_time	Datetime	1	0
user_point	Varchar(45)	1	0

- user_authority_state : information about user that is normal user or admin.

- user_last_access_time : last access time of user. This information used for deleting user that does not enter website for over a year.

- user_point : penalty point. This points are deleted only by admin.

logs

- This table stores data about login procedure and sources that are rented. Informations in this table as follows:

Name	Type	Not Null	Primary Key
log_id	İnt(11)	1	1
user_id	İnt(11)	1	0
record_id	İnt(11)	1	0
renting_date	date	1	0
expected_returning_date	date	1	0
returning_date	date	1	0

- renting_date : if user rents a source , this shows renting date
- expected_returning_date : expected return date of rented source
- user_authority_state : return date of rented source

types

- This table stores data about source type. Informations in this table as follows:

Name	Type	Not Null	Primary Key
type_id	İnt(11)	1	1
type_name	Varchar(45)	1	0

- type_name : contains types. Ex: book, DVD, magazine

books

- This table stores book's data. Informations in this table as follows:

Name	Type	Not Null	Primary Key
book_id	İnt(11)	Auto increment	1
book_name	Varchar(45)	1	0
author_id	İnt(11)	1	0
book_publication_year	Year(4)	1	0
book_ISBN	Varchar(45)	1	0
book_rental_count	İnt(11)	1	0
book_category_id	İnt(11)	1	0

- book_rental_count : renting number of books and used for displaying most popular books
- author_id : author id connects books table with authors table

book_categories

- This table stores data about book categories. Informations in this table as follows:

Name	Type	Not Null	Primary Key
book_categorie_id	İnt(11)	Auto increment	1
book_categorie_name	Varchar(45)	1	0

- book_categorie_name : used for categorizing books. Ex : novel, science.

authors

- This table stores data about writers of books. Informations in this table as follows:

Name	Type	Not Null	Primary Key
author_id	İnt(11)	Auto increment	1
author_name	Varchar(45)	1	0
author_information	mediumtext	1	0

- author_information : brief information about author

magazines

- This table stores magazine data. Informations in this table as follows:

Name	Type	Not Null	Primary Key
magazine_id	İnt(11)	Auto increment	1
magazine_name	Varchar(45)	1	0
magazine_issue_number	İnt(11)	1	0
magazine_publication_date	Date	1	0
magazine_rental_count	İnt(11)	1	0
magazine_category_id	İnt(11)	1	0

- magazine_issue_number: issue number of magazine
- magazine_rental_count : renting number of magazines and used for displaying most popular magazines

magazine_categories

- This table stores data about magazine categories. Informations in this table as follows:

Name	Type	Not Null	Primary Key
magazine_categorie_id	İnt(11)	Auto increment	1
magazine_categorie_name	Varchar(45)	1	0

- magazine_categorie_name : used for categorizing magazines. Ex : politic, comic.

DVDs

- This table stores DVD's data. Informations in this table as follows:

Name	Type	Not Null	Primary Key
DVD_id	İnt(11)	Auto increment	1
DVD _name	Varchar(45)	1	0
DVD _duration	İnt(11)	1	0
DVD _publication_date	Date	1	0
DVD _rental_count	İnt(11)	Default "0"	0
DVD _category_id	İnt(11)	1	0

- DVD_rental_count : renting number of DVDs and it is used for displaying most popular DVDs

DVD_categories

- This table stores data about categories of DVDs. Informations in this table as follows:

Name	Type	Not Null	Primary Key
DVD_category_id	İnt(11)	Auto increment	1
DVD_category_name	Varchar(45)	1	0

- DVD_category_name : used for categorizing DVDs. Ex : movie, song, game.

records

- This table stores data about sources and type of this sources. Informations in this table as follows:

Name	Type	Not Null	Primary Key
record_id	İnt(11)	Auto increment	1
type_id	İnt(11)	1	0
x_id	İnt(11)	1	0
Physical_electronic	bit(1)	1	0

- type_id : type of record. Ex : book,DVD, magazine
- physical-electronic : record is physical or electronic
- x_id : connects records table with source's table

bookcases

- This table stores data about bookcases and this informations are used for locating books. Informations in this table as follows:

Name	Type	Not Null	Primary Key
bookcase_id	İnt(11)	Auto increment	1
floor _name	İnt(11)	1	0
bookcase_name	Varchar(10)	1	0

- floor_name : floor name that is bookcase in.

bookshelves

- This table stores data about bookshelves and this informations are used for locating bookcases. Also bookshelves have limit. Informations in this table as follows:

Name	Type	Not Null	Primary Key
bookshelf_id	İnt(11)	Auto increment	1
bookcase_id	İnt(11)	1	0
bookshelf_name	Varchar(10)	1	0
book_limit	İnt(11)	1	0

- bookcase_id : bookcase id that is bookshelf in there
- book_limit : maximum number of book that bookshelf can contain.

floors

- This table stores data about floors that libraries have. Informations in this table as follows:

Name	Type	Not Null	Primary Key
floor_id	İnt(11)	Auto increment	1
library_id	İnt(11)	1	1
floor_name	Varchar(45)	1	1

- library_id : library that's contains that floor

libraries

- This table stores library data. Informations in this table as follows:

Name	Type	Not Null	Primary Key
library_id	İnt(11)	Auto increment	1
library_name	Varchar(45)	1	0
library_address	Varchar(45)	1	0

electronic_resources

- This table stores data about sources that are electronic. Informations in this table as follows:

Name	Type	Not Null	Primary Key
record_id	İnt(11)	Auto increment	1
url	Varchar(45)	1	0

- url : users can reach sources on internet using url

physical_resources

- This table stores data about sources that are physical. Informations in this table as follows:

Name	Type	Not Null	Primary Key
record_id	İnt(11)	Auto increment	1
bookshelf _id	İnt(11)	1	0
book _column	İnt(11)	1	0
current_log_id	İnt(11)	1	0

waiting_resources

- This table stores data about users that are waiting for sources. Informations in this table as follows:

Name	Type	Not Null	Primary Key
user_id	İnt(11)	1	1
record_id	İnt(11)	1	1

- record_id : source that is users waiting for

suggestions

- This table stores suggestions that are going to send to admin. Informations in this table as follows:

Name	Type	Not Null	Primary Key
suggestion_id	İnt(11)	1	1
suggestion	text	1	0

Entity Relation Diagram

users
- user_id INT
- user_nickname VARCHAR(45)
- user_name VARCHAR(45)
- user_surname VARCHAR(45)
- user_password VARCHAR(45)
- user_authority_state BIT(1)
- user_last_access_time DATETIME
- user_point VARCHAR(45)
- Indexes

suggestions
- suggestion_id INT
- suggestion VARCHAR(45)
- user_id INT
- Indexes

logs
- log_id INT(11)
- user_id INT(11)
- record_id INT(11)
- renting_date DATE
- expected_returning_date DATE
- returning_date DATE
- Indexes

waiting_resources
- user_id INT
- recod_id INT
- users_user_id INT
- records_record_id INT
- Indexes

books
- book_id INT(11)
- book_name VARCHAR(45)
- author_id INT(11)
- book_publication_year YEAR
- book_ISBN VARCHAR(45)
- book_rental_count INT(11)
- book_categories_book_categories_id INT
- Indexes

authors
- author_id INT(11)
- author_name VARCHAR(45)
- author_information MEDIUMTEXT
- Indexes

book_categories
- book_categories_id INT
- book_categorie_name VARCHAR(45)
- Indexes

magazines
- magazine_id INT
- magazine_name VARCHAR(45)
- magazine_issue_number INT
- magazine_publication_date DATE
- magazine_rental_count INT
- magazine_categories_magazine_categories_id INT
- Indexes

magazine_categories
- magazine_categories_id INT
- magazine_categories_name VARCHAR(45)
- Indexes

records
- record_id INT
- type_id INT
- x_id INT
- physical_electronic BIT
- Indexes

DVDs
- DVD_id INT
- DVD_name VARCHAR(45)
- DVD_duration INT
- DVD_publication_date DATE
- DVD_rental_count INT
- DVD_category_id INT
- DVD_categories_DVD_categories_id INT
- Indexes

DVD_categories
- DVD_categories_id INT
- DVD_categories_name VARCHAR(45)
- Indexes

electronic_resources
- record_id INT
- url VARCHAR(45)
- records_record_id INT
- Indexes

types
- type_id INT
- type_name VARCHAR(45)
- records_record_id INT
- Indexes

physical_resources
- record_id INT
- bookshelf_id INT
- book_column INT
- current_log_id INT
- records_record_id INT
- Indexes

bookshelves
- bookshelf_id INT
- bookcase_id INT
- bookshelf_name VARCHAR(45)
- book_limit INT
- bookcases_bookcase_id INT
- bookcases_floors_floor_id INT
- bookcases_floors_libraries_libraries_id INT
- Indexes

bookcases
- bookcase_id INT
- floor_id INT
- bookcase_name VARCHAR(45)
- floors_floor_id INT
- floors_libraries_libraries_id INT
- Indexes

floors
- floor_id INT
- library_id INT
- floor_name VARCHAR(45)
- libraries_libraries_id INT
- Indexes

libraries
- libraries_id INT
- libraries_name VARCHAR(45)
- libraries_address VARCHAR(45)
- Indexes