**DEVELOPING ASP .NET WEB APPLICATIONS**

# Project proposal

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**Project overview:**

Library Management System application has three levels of access:

**Not registered users:**

* Library Management System allows anyone to explore the assets
* Users can register on the web app by themselves, or web app administrator can perform registration

**Registered users:**

* Can pick the available assets and see selected items in the Checkout page.
* Rent selected assets (maximum is 5 not returned assets for each user)
* On “My File” page user can see the not returned assets, the due date to return for each asset, fee to pay if the due date is expired.
* On “My File” user also can “return” the item or all the items. In real life, this operation is supposed to be automated somehow to control

**Library Rules:**

A rented item must be returned in 15 days

The fee for every overdue day is $1.50 per item

**Administrator - a user, who has the “admin” role:**

* Has access to all user accounts (create, edit, delete).
* Can add the assets to the database, edit or remove library assets.

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| Title: | Library Management System (LightLib) |
| Technique used: | . ASP.NET Framework with MVC  . Code First database migrations with DbContext  . ASP.NET Razor Engine  . Entity Framework |
| Description: | \* The Library controls its assets (book, magazine, DVD…):  . Inventory  . Add new asset  . Edit and update information of each asset  . Lend out to its patrons  \* The Library keeps track of its users:  . List of users  . Add new user  . Each user record (list of assets rented by user)  \* User actions:  . Edit / Update information  . Rent library’s assets  . Keep track of rented assets. |
| Models: | \* Asset:  . Id  . Title  . AssetType  . Year  . ImageUrl  . Rent by user  . Rent Date  \* User:  . Id  . Name  . Address  . PhoneNumber  . etc. |
| Views: | \* Layout:  . Navbar: 4 navbar items (Users, Assets, New User, New Asset)  . Footer: copyright, author names  \* Home:  . Index: Display 4 anchor links to (Users, Assets, New User, New Asset)  \* Users:  . Index: List of users with the link Detail to each user.  . Detail:  . Information of selected user from Index  . Link to Rented assets  . Link to Edit  . Link to Assets/Rent  . Edit: Display a form with inputs to update user info.  . Rented Assets:  . Display rented assets  \* Assets:  . Index: Library Catalog list with Detail link  . Detail:  . Information of selected asset from Index  . Link to Edit  . Edit: Display a form with inputs to update asset.  . Rent:  . Contain Input text for searching by title  . Display list of found assets with check box  . Button Rent allows User renting selected assets (Redirect to Users/RentedAssets). |

**Task assignment:**

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| Roman Shaiko | Frontend + Backend of all tasks regarding UsersController |
| Yasser Soufiany | Frontend + Backend of all tasks regarding AssetsController |
| Tung Pham | Frontend + Backend of all tasks regarding HomeController, Layout, POCO Classes, Hosting |