**Overview software library management**

Overview

* Manage
  + Add, delete and manage the resource
  + Soft resource in an orderly manner
  + Calculating exactly what users need and give the manage have an overview of each users
  + Analyze number and export report when manage need
  + Safe money and easy to use
* Employee
  + Manage resource of library
  + Automatically from simple steps to complex steps
  + Support in search multiple, exactly, quickly
  + High performance
  + Fill form to help users borrow book (only borrow if library of book still on due)
  + Each users can borrow maximum is 5 books and can borrow in 30 days. If get book back late then they have to pay fines (5000VND per day)
  + Can export report for each month, each 3 months or each year for borrow and pay book back case
* Users
  + Easy to find which resource users need (name of book, name of author, Publishing year, type of book)
  + Support users to search multiple, exactly and quickly
  + Support borrow resource for easily to learn

Data Base

* Book table
  + ID Book (String)
  + Name (String)
  + Description (String)
  + Publishing year (Number)
  + Publishing location (String)
  + Type (String)
  + Date add to library (DateTime)
  + Location in library (String)
  + Notes (String)
* Users table
  + ID User (String)
  + First name (String)
  + Last name (String)
  + Sex (String)
  + Date of birth (DateTime)
  + Type (Student, Teacher, customer (require library of card)) (String)
  + Faculty (if customer then none) (String)
  + Production date (DateTime)
  + Expiration date (DateTime)
  + Email (String)
  + Address (String)
  + Phone number (Number)
  + Notes (String)
* Employee table
  + ID Employee (String)
  + First name (String)
  + Last name (String)
  + Sex (String)
  + Date of birth (DateTime)
  + Type (staff, manager) (String)
  + Working day (DateTime)
  + Last working day (If staff or manager had quit the job) (DateTime)
  + Salary (Number)
  + Notes (String)
* Account
  + Username (String)
  + Password (String)
  + ID Users (String)
  + Last Name (String)
  + First Name (String)
  + Date of Birth (DateTime)
  + Type (User/ Employee/ Manager) (String)
  + Notes (String)
* Borrow
  + ID Book (String)
  + ID Users (String)
  + ID Employee (Which employee execute for user to borrow book) (String)
  + Borrow date (DateTime)
  + Pay day (DateTime)
  + Notes (String)

Functional

* Sign in/ sign out (decentralization)
* Search book (Role users, employee, manager)
* Search Users (Role employee, manager)
* Search Employee (Role manager)
* Add, delete, edit book (Role employee, manager)
* Add, delete, edit employee (Role manager)
* Export report (Role employee, manager)
* Create, edit, delete a library card (Role employee, manager)
* Make form for users for borrow book to out of library

Structure project

* Using MVC model
* DB: SQL (maybe can have trigger to backup DB)
* BE: C#
* FE: HTML, CSS, JS, Bootstrap 3
* Managed task: git