<u>Acknowledgement</u>

Project title :- MyELib

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The project is all about the library.
The steps to install and run our application are as follows.

Step 1:

You must have following applications running on your machine
1) Android version: Android SDK higher than 2.3.3– API level 10
2) Target Android version is Android SDK higher than 4.2– API level 17
3) RAM-min. 512 MB(machine) , 20 MB of RAM(Android)20 MB of SD card
4) ASP .Net (Framework-3.5 or higher), Sql Server 2005 or higher.
5) IIS Server(Operating System -Windows 7)

Step 2:

- Restore MyELib.bak (Backup file of the database in SQL Server)
- Import the Project in eclipse environment.
- Import MyELibwebservice in ASP .Net
- Also put the MyELibwebservice on IIS Server for that follow following steps:

1. (start->run->inetmgr->Connection pannel->sites->default website-> rightclick->add application-> provide alias as(MyELibwebservice)->set physical path by browsing (SourceCode\MyELibwebservice)->press ok)
2. Browse
    (MyELibwebservice->right click->manage application->Browse)

3. After this if any error follow the two steps below:-
    a. In inetmgr (MyELibwebservice->right click->manage application-> Advanced settings->Application pool->Asp.Netv(4.0 or your version of framework)->press ok)

    b. In inetmgr (select MyELibwebservice->MyELibwebserice Home(middle pannel)->Directory browsing->Action pannel(Right

side)->check if there is enable then click on it(otherwise dont go further) ->click on enable)

4. then browse
(MyELibwebservice->right click->manage application->Browse)

Step 3 :

In code just follow the following changes:

1. Go to the folder hierarchy SourceCode\MyELibwebservice
    In that open web.config file and make changes in connectionString in following two lines.

- To change connectionString ASP.Net/server explorer/MyELib.dbo/rightclick on that/properties/advanced setting/select the connection string.

    ```
    <add  name="MyELibConnectionString"
          connectionString="DataSource=HAWAMULLA;Initial
          Catalog=MyELib;Persist Security Info=True;User
          ID=sa;"
          providerName="System.Data.SqlClient"
    />
    ```

- In the next line change connection string same as above but only the following portion of that string
    "DataSource=HAWAMULLA;Initial Catalog=MyELib;Persist Security Info=True;UserID=sa;"

- Also Change the password to your SQL Server password.
Eg. change Password=hawa4frnds to password=ourSqlserverPassword

    ```
    <add  name="MyELibConnectionString1"
          connectionString="DataSource=HAWAMULLA;Initial
          Catalog=MyELib;Persist Security
          Info=True;UserID=sa;Password=hawa4frnds"
          providerName="System.Data.SqlClient"
    />
    ```

2. Some changes also need to be done in android code by following steps listed below

- From Source code folder import MyELib

- Follow the folder hierarchy MyELib\src\com\example\myelib
- In that open the Global_Application.java file and change the IP address(192.168.1.12) with IP address of your machine in the following two lines:
  String Url="http://192.168.1.12/MyELibwebservice/Service.asmx/";
  String EbookUrl="http://192.168.1.12/MyELibwebservice";

Step 4 :

Now run the application in emmulator and then you will get .apk file that can be run on any android device.

<u>Flow of the Application</u>

➢ There wil be two options on the home activity

1) Login

just need to provide Stud_Libcard_no(simcmc1190) and stud_enrollmentno(115310693043)

2) Login By Barcode

In this activity you need to scan the library card's barcode if there
(Note :- we have put one library card's scanned copy having barcode)

➢ Then you will get tabs like Home, Search, Ebook and Suggestion,

- **At Home tab**
  You will find the detail of student who is logged in and the book list which are issued by him/her.
- **At Search tab**
  You will able to search the books by auther name, book id(if you know), book name, publisher name or by any keyword related to the book.
- **At Ebook tab**
  You will get the list of ebooks available in the library and just by clicking on it you will be able to download the ebooks.
- **At Suggestion tab**
  You can send the suggestion by the email.

Additional functionality is as follows.

Any student, having library books issued will get notification of submission of his/her book before two days of return date and twice a day.

<u>Note:</u>

To check the results of each and every tabs and fields enter the following data where and when required as correct data that we have entered in our database

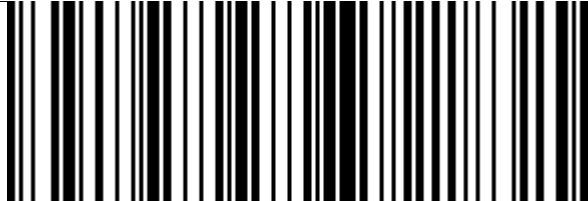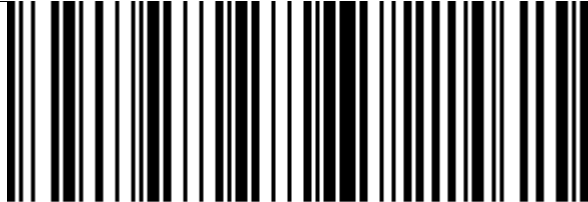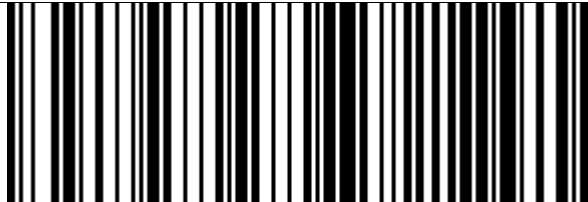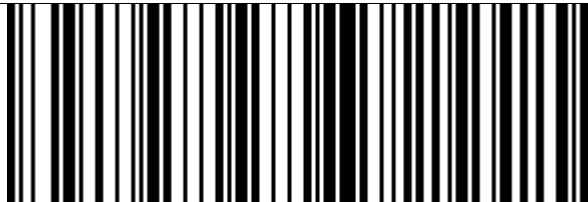Student enrollment number - 115310693044
Student librarycard number - SIMCMC110053
Book name - core java 2
Book auther - gary cornell
Book publisher - pearson education

For other records of barcode just use the following details.

Enrollment number	Library card number	Image of barcode to scan (For login through scan)
115310693009	SIMCMC110009	SIMCMC110009
115310693043	SIMCMC110019	SIMCMC110019
115310693044	SIMCMC110053	SIMCMC110053
115310693045	SIMCMC110045	SIMCMC110045
115310693046	SIMCMC110046	SIMCMC110046