**Programming in Java**

**Group Assignment**

**Batch: CS/MIS 15.1**

**SKSC Library Management System**

**Project name -** SKSC Library Management System

**Purpose -**

This is a library management system created to mimic a real world application. It has been created to do certain functions that normally a library system would do. The whole application is JDBC driven meaning it has been connected to a database in order to do all the functions. Functions vary from Book Registration, Book Search, Book Popularity, Borrow Books, Update Details, Member Registration, Member Search, Update Details, Admin Registration, and Change Admin Details.

When it comes to the system updating features you have to be logged in successfully to make any changes. By default the username is set as “admin” and password as “password”.

**Team name -**SKSC

**Team members-**

|  |  |
| --- | --- |
| **INDEX NUMBER** | **NAME** |
| BSC-UCD-CSC-15.1-063 | Chulan Kumara |
| BSC-UCD-CSC-15.1-088 | Samintha Kaveesh |
| BSC-UCD-CSC-15.1-091 | Kalana Wijesekara |

**Contributions -**

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| --- | --- |
| Chulan Kumara | Member Management |
| Samintha Kaveesh | Book Management |
| Kalana Wijesekara | Administrator Management |

**Additional Information-**

* This system requires MySQL Connector/J which is a JDBC driver for MySQL.
* Create a system variable with name “path” and value with the location to the connector.
* Requires WAMP/XAMPP server to access database and load data from it.
* Used many import packages to import relevant classes and methods to implement the system.
* Used a MySQL database. Default database name is “sksc\_library\_ms”.
* UsedNimbus look and feels to give the user interface a plain brushed effect for pleasant viewing experience.

**Other Information-**

* When loading the system it needs to have WAMP/XAMPP server up and running (to load data from the database).
* Always make sure that you enter all fields and leave nothing blank since the program is coded to throw message dialogs if there are empty fields.
* There is a help window included for users with trouble interfering with the system.
* The about us window has been included to present basic information of the team members in this project.
* Once logged in successfully a label at the bottom of the Administration Management panel will show details of currently logged in admin.
* You can save details into text files if you wish by clicking on “Save data to File”.
* From the top file menu you can either logout or exit the system.
* In Login screen you can change your database name, server and database account by clicking the button on bottom right corner. These changes will save to a folder called “SKSCLibrary” in your documents folder. The ‘config.dat’ file in that folder is encrypted using “Base64” encoding method to make sure that no one can access.
* The passwords in the “admins” table in the database are encrypted using “MD5 Encryption” to make sure no one can see the passwords.
* We sure do hope that you enjoy this application and hoping to create advanced systems in the future.

**Logging Information-**

* Default credentials :-

Username - admin

Password -password