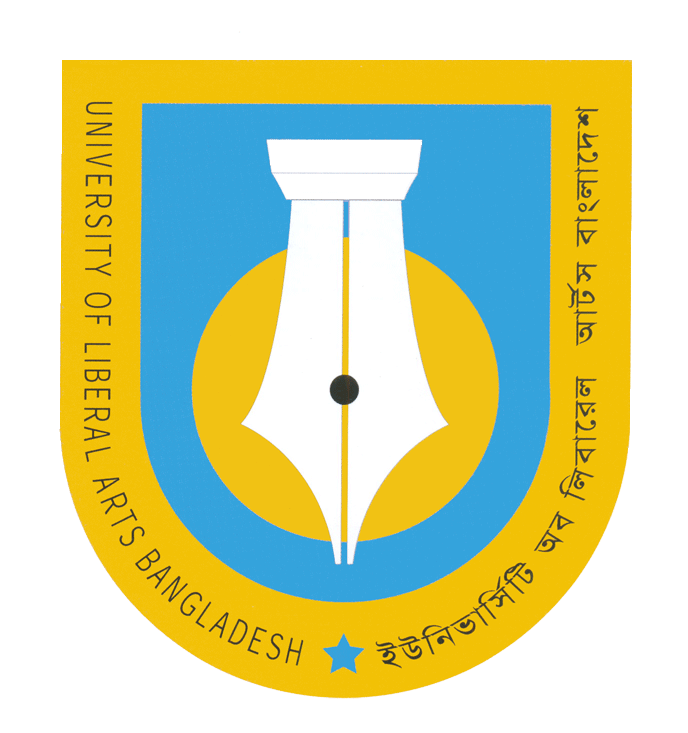
**E To-Let Management System**



Report on

**“Class Responsibility Collaboration”**

**Submitted To** Dr. Md Shahriar Rahman  
Associate Professor   
Department of Computer Science & Engineering

University of Liberal Arts Bangladesh

**Submitted By**

|  |  |
| --- | --- |
| NAME | ID |
| Jhuma Kabir Mim | **151014062** |
| Sabbir Ahmed | **151014076** |
| Partho Mazumder | **143014071** |

**CRC:** Class-responsibility-collaboration cards are a brainstorming tool used in the design of object-oriented software. They were originally proposed by Ward Cunningham and Kent Beck as a teaching tool, but are also popular among expert designers and recommended by extreme programming supporters.

**Class:** Class is an object-oriented class name. It include information about super and Sub classes.

**Responsibility**: Responsibility is that what information this class stores and what this class does.

There are some example of CRC given below:

**CRC of I-pod:**

Class name:

* Music.
* I-pod.
* Menu.
* Playlist.
* Battery.
* Display.
* Plugging to charge.

|  |
| --- |
| **Music** |
| Responsibilities Collaborators |
| John search music |
| Search of music for cake  **i**-**pod** |
| Find songs for play, add & delete |
| Display battery condition to warns user |

|  |
| --- |
|  |
| Responsibilities Collaborators |
| Search playlist  **Menu** |
| Select playlist |

**i-pod**

|  |
| --- |
| **Menu** |
| Responsibilities Collaborators |
| Where songs are stored  **Playlist** |

|  |
| --- |
| **Playlist** |
| Responsibilities Collaborators |
| Show all songs **Playlist** |
| Select a song to add |
| Find a song can delete |

|  |
| --- |
| **Battery** |
| Responsibilities Collaborators |
| When battery is low , it getting warns user Display |
|  |
|  |

|  |  |
| --- | --- |
| **Display** |  |
| Responsibilities | Collaborator |
| User can see when its battery low & warn | Plugging to charge |

**Plugging to charge**

|  |  |
| --- | --- |
|  |  |
| Responsibilities | Collaborator |
| When user have no response | shutdown |
| When user have response | charge |

**CRC of Library**

Class name:

* Library.
* R & D org.
* Borrow.
* Library Materials.
* Policy.
* Due time.
* Rules of org.

|  |  |
| --- | --- |
| **Library** |  |
| Responsibilities | Collaborators |
| Library | R & D org |

|  |  |
| --- | --- |
| **R & D org** |  |
| Responsibilities | Collaborators |
| Searching materials (books, video & journals) | Borrow |
| Lending materials for Library |  |

**Borrow**

|  |  |
| --- | --- |
|  |  |
| Responsibilities | Collaborators |
| It can perform search & lending of books , videos & journals | Library Materials |

|  |  |
| --- | --- |
|  |  |
| Responsibilities | Collaborators |
| User enter with id | Order materials on system |
| Check id | Policy |

**Library Materials**

|  |  |
| --- | --- |
|  |  |
| Responsibilities | Collaborators |
| Checking & return  **Policy** | System |
| Lent up to five items |  |
| Cannot lent more than five item |  |

|  |  |
| --- | --- |
| **Due Time** |  |
| Responsibilities | Collaborators |
| Library item lent for different period | times |
| Return book on time | time |
| Delay to return | fines |

|  |  |
| --- | --- |
| **Policy** |  |
| Responsibilities | Collaborators |
| User can fine for return book after due time | Pay to money |
| Library some policy | system |
| Charge less than $100 | Pay to money |