

**Department of Computer Science**

Term Project Proposal, Fall 2021-22

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| Course | OBJECT ORIENTED PROGRAMMING 2 | Group | 6 |

**Group Members:**

|  |  |  |
| --- | --- | --- |
| Student ID | Name | Contribution |
| 20-44049-2 | RIDOWAN Ul ALAM | 25% |
| 20-44048-2 | K M SADMAN AKIB | 25% |
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**Project Title:**

|  |
| --- |
| Library Management System |

**Project Description:**

|  |  |  |
| --- | --- | --- |
| Please provide your projects feature list here with bullet points or you can also use another format given in the next page.   * Admin * Can Create/Add A Book on The Book List. * Can Read Any Book Details. * Can Update Any Book Details. * Can Delete Any Book from The List. * User * Can See All book list and book details. * Can see his own created book list. * Can See his own profile.     **…............................................................x....................................................................**  [Data Dictionary (Database schema example in given in the next page)  Normal\_user   * id * username * password * gmail * address * mobile * age * gender   Admin\_user   * id * username * password * gmail * address * mobile * age * gender   Book   * id * bookName * author * genre | | |
|  |  |  | |
| * At least 2 types of Users * One Complete Repository * Database Connection Class. * Normalized DB (2NF) * Form Validation | * Search Option for all users. * OOP Principles * Application Layer (Form Design). | * Database CRUD operations * All the Forms MUST be connected. * Entity Classes | |

**Instructions:**

* Fill up *name, id, section, project title* and *project description* area.
* Mention all the **Entities** and **attributes for each Entity** clearly in your Project proposal.
* Specify how many **roles** are there in your system what are their **individual functionalities**.
* You must provide your Project Proposal Data dictionary in the format given below.
* Please don’t write anything for **GROUP** and don’t select anything for **Requirements** section.
* Your project must fill all the requirements given in the requirement section.
* You have to **fill and upload** the document by
* Only one member per group should **upload** the file.
* Only first page is required for your proposal submission. This page only contains instructions and example.

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| **Project Description Example:**   * Admin   Any one can’t be an admin if they want to. Admin will be predefined. Admin can add as many books as he wants into the library. Admin can see and update any book’s details. Admin can delete any book from the library.   * User   Any user can be a member of this library system after register himself. User have to pay a monthly bill to continue his membership. He can have a portal system in library. User can see all the book list, his taken book list. Any user can borrow 5 books at a time. To borrow books user, have to give his previously taken books. If user can’t be able to pay his bill or can’t be able to return his book in time his portal will locked until he pays.  **Example for User Stories,** |

|  |  |  |
| --- | --- | --- |
| **Use Feature Name** | **Actor** | **Feature Story** |
| Add Book | Admin | Admin can add book to the book list. So that user can read those books. |

**Example for Data Dictionary** (Consider this for Employee entity)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Key | Name | Data Type | Length | Nullable |
| **Primary** | id | INTEGER | 10 | No |
|  | bookName | VARCHAR | 50 | No |
|  | author | VARCHAR | 50 | No |
|  | genre | VARCHAR | 50 | No |

|  |  |  |
| --- | --- | --- |
| **Use Feature Name** | **Actor** | **Feature Story** |
| Registration | User | User can register by fill up a form. After register user can sign-in to the library system to access the features of the system. |

**Example for Data Dictionary** (Consider this for Employee entity)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Key | Name | Data Type | Length | Nullable |
| **Primary** | id | INTEGER | 10 | No |
|  | username | VARCHAR | 50 | No |
|  | password | VARCHAR | 50 | No |
|  | gmail | VARCHAR | 50 | No |
|  | address | VARCHAR | 50 | No |
|  | mobile | VARCHAR | 50 | No |
|  | age | INTEGER | 10 | No |
|  | gender | VARCHAR | 50 | No |

|  |  |  |
| --- | --- | --- |
| **Use Feature Name** | **Actor** | **Feature Story** |
| Log In | Admin | There are only one or two admin. User can’t be an admin if they want to. Admin can control the whole Library System. |

**Example for Data Dictionary** (Consider this for Employee entity)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Key | Name | Data Type | Length | Nullable |
| **Primary** | id | INTEGER | 10 | No |
|  | username | VARCHAR | 50 | No |
|  | password | VARCHAR | 50 | No |
|  | gmail | VARCHAR | 50 | No |
|  | address | VARCHAR | 50 | No |
|  | mobile | VARCHAR | 50 | No |
|  | age | INTEGER | 10 | No |
|  | gender | VARCHAR | 50 | No |