

**Department of Computer Science**

Term Project Proposal, Fall 2021-22

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| Course | OBJECT-ORIENTED PROGRAMMING 2 [Q] | Group | 8 |

**Group Members:**

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| Student ID | Name | Contribution |
| 20-41991-1 | Rakin Sad Aftab | 33.4% |
| 20-42585-1 | Saiful Islam | 33.3% |
| 20-43068-1 | Nuhan Ahmed Digonto | 33.3% |

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| **Project Title:** The Last Soldier | |
| **Prepared By:** Last Soldier Team | **Date:** Nov 8 2021 |

**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.
* Please specify how many **roles** there are in your system and their **functionalities**.
* You must provide your Project Proposal Data dictionary in the format given below.
* Please don’t write anything for **GROUP** and select anything for the **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.
* The only first page is required for your proposal submission. This page only contains instructions and examples.

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| Project Description: |

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|  | **User – 1 (Army Man)** |  |
| **User Feature Name** | **Actor** | **Feature Story** |
| Registration | Army Man | Registration will perform by the army authority. After that, Passwords and Unique IDs will be provided to the soldiers. |
| Sign In | Army Man | The Soldier needs to sign in to the system to access the features as a system user. |
| Profile | Army Man | In this panel, soldiers can see their picture, name and unique id. |
| Home | Army Man | On the home page, soldiers can see the news and announcement from the army. |
| Available Mission | Army Man | Soldiers will see the available missions list here. |
| Completed Mission | Army Man | Soldiers who have completed a mission will see the information here. |
| Join Mission | Army Man | If soldiers are not in a mission or registered, they can join on an available mission. To join unique id will be needed. |
| Sign Out | Army Man | After completing their work, they can sign out from the system. |

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|  | **User – 2 (Army Man Family)** |  |
| **User Feature Name** | **Actor** | **Feature Story** |
| Registration | Army Man Family | Family members need to register to access the system. Name, email address, and unique id (unique id of army man) will be needed to complete registration. |
| Sign In | Army Man Family | Family members need to sign in to the system to access the features as system users. |
| Profile | Army Man Family | In this panel, user can see their picture, name and unique id. |
| Home | Army Man Family | A welcome interface will appear here. |
| Search | Army Man Family | Users can search Soldiers by their unique id and see the latest information. |
| Sign Out | Army Man family | After completing their work, users can sign out from the system. |

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|  | **User – 3 (Admin)** |  |
| **User Feature Name** | **Actor** | **Feature Story** |
| Registration | Admin | Registration will perform by the army authority |
| Sign In | Admin | Admin needs to sign in to the system to access the features as a system user. |
| Home | Admin | Details of all users will appear. |
| Search | Admin | Admin can search users by the unique id and username see the information about them. |
| Insert | Admin | Insert a valid user. |
| Delete | Admin | Delete a user. |
| Update | Admin | Update user details. |
| Send Notice | Admin | Send notice to the user. |
| Sign Out | Admin | After completing the work, Admin can sign out from the system. |

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| **Data Dictionary**  **Table – 1 (ArmyManLogin Table)**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Key | Name | Data Type | Length | Nullable | |  | Username | VARCHAR | 50 | No | |  | PASS | NVARCHAR | 50 | No | | **Primary** | Uni\_id | NVARCHAR | 50 | No | |  | Location\_A | VARCHAR | 50 | No | |  | Imagex | IMAGE | - | No |   **Table – 2 (MISSION Table)**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Key | Name | Data Type | Length | Nullable | | **Primary** | Uni\_id | NVARCHAR | 50 | No | |  | MISSION\_NAME | VARCHAR | 50 | No | |  | Statuss | VARCHAR | 50 | No |   **Table – 3 (User\_info\_family Table)**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Key | Name | Data Type | Length | Nullable | |  | FNAME | VARCHAR | 50 | No | | **Primary** | UNIQUE\_ID | NVARCHAR | 50 | No | |  | EMAIL | VARCHAR | 50 | No | |  | PASS | NVARCHAR | 50 | No |   **Table – 4 (Admin Table)**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Key | Name | Data Type | Length | Nullable | | **Primary** | User\_id | NVARCHAR | 50 | No | |  | PASS | NVARCHAR | 50 | No |   **View – 1 (ARMY)**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Key | Name | Data Type | Length | Nullable | |  | Name | VARCHAR | 50 | No | | **Foreign** | ID | NVARCHAR | 50 | No | |  | Location | VARCHAR | 50 | No | |  | Mission | VARCHAR | 50 | No | |  | Status | VARCHAR | 50 | No | |  | Image | IMAGE | - | No | |

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| * At least 2 types of Users | * Search Option for all users. | * Database CRUD operations |
| * One Complete Repository | * Use of delegates | * All the Forms MUST be connected. |
| * Database Connection Class. | * OOP Principles | * n-Tier Architecture. |
| * Normalized DB (2NF) | * Application Layer (Form Design). | * Entity Classes |
| * Form Validation |  |  |