| PROJECT-KSEB-UI-DATABASE TABLE-DESIGN |
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| Type of Users in the system  1.Admin  2.Lineman  3.Electrical Engineer  4.Material Manager |
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| ADMIN UI |
| --- |

| **Employees** | **Consumers** | **Complaints** | **Work Allocation** | **Reports** | **Logout** |
| --- | --- | --- | --- | --- | --- |
| Add | Add | Register | Allocate | Complaints(from-to) |  |
| View | View | View | View | Work Details(from-to) |  |
| Update/Edit | Update/Edit | Update/Modify | Pending Works | Payments |  |
| Delete | Delete | Delete |  |  |  |
|  |  | Update Status |  |  |  |

| LINEMAN UI |
| --- |

| **Work Allocation** | **Material Requests** | **Payments** | **Reports** | **Logout** |
| --- | --- | --- | --- | --- |
| View | Create | Add | Work(from-to) |  |
| Update Status | View | Update/Edit | Materials |  |
|  | Update/Modify |  | Payment |  |
|  | Delete |  |  |  |

| ELECTRICAL ENGINEER UI |
| --- |

| **Material Requests** | **Reports** | **Logout** |
| --- | --- | --- |
| View | Work |  |
| Update/Edit | Materials |  |
| Take Action(Accept or Reject) | Payment |  |
|  | Complaints |  |

| MATERIAL MANAGER UI |
| --- |

| **Inventory** | **Material Requests** | **Payments** | **Reports** | **Logout** |
| --- | --- | --- | --- | --- |
| Add Materials | View | Payments | Material Request |  |
| View Materials | Take Action(Send for Approval) | Billing | Material Issued |  |
| Update/Modify details | Update/Modify |  |  |  |
| Update Stocks | Issue Materials |  |  |  |
| Delete |  |  |  |  |

| TABLE STRUCTURE |
| --- |

Table Name: User\_Types

Primary Key: user\_type\_id Foreign Key: NA

| **Sl.no** | **Column name** | **Datatype** | **Size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | user\_type\_id | int |  | Primary Key-Auto increment |
| 2 | user\_type | String | 45 | User Type (Lineman, Admin etc) |

Table Name: Employee\_Personal\_Details

Primary Key: employee\_id

Foreign Key: NA

| **Sl.No** | **column\_name** | **datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | employee\_id | int |  | Primary Key – Auto increment |
| 2 | employee\_firstname | String | 45 |  |
| 3 | employee\_lastname | String | 45 |  |
| 4 | employee\_phone\_no | bigint |  |  |
| 5 | employee\_address | String | 45 |  |
| 6 | employee\_city | String | 45 |  |
| 7 | employee\_pincode | int |  |  |
| 8 | employee\_email\_id | String | 45 |  |

Table Name: Employee\_UserType

Primary Key: employee\_usertype\_id

Foreign Key: employee\_id , user\_type\_id

Foreign Key Tables: Employee\_Personal\_Details , User\_Types

| **Sl.No** | **column\_name** | **datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | employee\_usertype\_id | int |  | Primary Key – Auto increment |
| 2 | employee\_id | int |  | Foreign Key |
| 3 | user\_type\_id | int |  | Foreign Key |

Table Name: Employee\_Login\_Details

Primary Key: login\_id

Foreign Key: employee\_id

Foreign Key Tables: Employee\_Personal\_Details

| **Sl.No** | **column\_name** | **datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | login\_id | int |  | Primary Key – Auto increment |
| 2 | employee\_id | int |  | Foreign Key |
| 3 | username | String | 45 | username(unique) |
| 4 | password | String | 45 |  |

Table Name: Consumer\_Personal\_Details

Primary Key: consumer\_id

Foreign Key: NA

| **SL.No** | **column\_name** | **Datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | consumer\_id | int |  | Primary Key – Auto increment |
| 2 | consumer\_firstname | String | 45 |  |
| 3 | consumer\_lastname |  |  |  |
| 4 | consumer\_phone\_no | bigint |  |  |
| 5 | consumer\_email\_id | String | 45 |  |
| 6 | consumer\_city | String | 45 |  |
| 7 | consumer\_pincode | int |  |  |

Table Name: Consumer\_Kseb

Primary Key: consumer\_kseb\_id

Foreign Key: consumer\_id

Foreign Key Tables: Consumer\_Personal\_Details

| **SL.No** | **column\_name** | **Datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | consumer\_kseb\_id | int |  | Primary Key – Auto increment |
| 2 | consumer\_id | int |  | Foreign Key |
| 3 | consumer\_kseb\_meter\_no | int |  |  |
| 4 | consumer\_kseb\_post\_no | int |  |  |
| 5 | consumer\_kseb\_connection\_type | String | 45 | Connection Type(3 phase, 2 phase etc) |

Table Name: Complaint\_Details

Primary Key: complaint\_id

Foreign Key: consumer\_kseb\_id

Foreign Key Tables: Consumer\_Kseb

| **SL.No** | **column\_name** | **Datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | complaint\_id | int |  | Primary Key-Auto increment |
| 2 | consumer\_kseb\_id | int |  | Foreign Key |
| 3 | complaint\_description | text |  | Description of the complaint |

Table Name: Complaint\_Status

Primary Key: complaint\_status\_id

Foreign Key: complaint\_id

Foreign Key Tables: Complaint\_Details

| **SL.No** | **column\_name** | **Datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | complaint\_status\_id | int |  | Primary Key-Auto increment |
| 2 | complaint\_id | int |  | Foreign Key |
| 3 | complaint\_logged\_date | date |  | Complaint registered date |
| 4 | complaint\_status\_updated\_date | date |  | Date of status change/update |
| 5 | complaint\_status | String | 45 | current status of the complaint(Open, In Progress, Closed) |
| 6 | complaint\_status\_updated\_by | int |  | User who updated the complaint status(1-Admin ,2 -Lineman etc) |
| 7 | complaint\_status\_description | String | 45 | Description of the current complaint status |

Table Name: Work\_Allocation

Primary Key: work\_allocation\_id

Foreign Key: complaint\_id , employee\_id

Foreign Key Tables: Complaint\_Details , Employee\_Personal\_Details

| **SL.No** | **column\_name** | **Datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | work\_allocation\_id | int |  | Primary Key-Auto increment |
| 2 | complaint\_id | int |  | Foreign Key |
| 3 | employee\_id | int |  | Foreign Key |

Table Name: Work\_Status

Primary Key: work\_status\_id

Foreign Key: work\_allocation\_id

Foreign Key Tables: Work\_Allocation

| **SL.No** | **column\_name** | **Datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | work\_status\_id | int |  | Primary Key-Auto increment |
| 2 | work\_allocation\_id | int |  | Foreign Key |
| 3 | work\_allocated\_date | date |  | Date of work assignment |
| 4 | work\_status\_updated\_date | date |  | Date of status change/update |
| 5 | work\_status | String | 45 | Current status of work |
| 6 | work\_status\_description | String | 45 | Description of the current work status |

Table Name: Material\_Brand

Primary Key: material\_brand\_id

Foreign Key: NA

| **SL.No** | **column\_name** | **Datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | material\_brand\_id | int |  | Primary Key-Auto increment |
| 2 | material\_brand\_name | String | 45 | Brand name of the material |

Table Name: Material\_Type

Primary Key: material\_type\_id

Foreign Key: NA

| **SL.No** | **column\_name** | **Datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | material\_type\_id | int |  | Primary Key-Auto increment |
| 2 | material\_type | String | 45 | Type of material |

Table Name: Material\_Item

Primary Key: material\_item\_id

Foreign Key: material\_brand\_id , material\_type\_id

Foreign Key Tables: Material\_Brand , Material\_Type

| **SL.No** | **column\_name** | **Datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | material\_item\_id | int |  | Primary Key-Auto increment |
| 2 | material\_brand\_id | int |  | Foreign Key |
| 3 | material\_type\_id | int |  | Foreign Key |
| 4 | material\_item\_name | String | 45 | Name of the item |

Table Name: Stock\_Update

Primary Key: stock\_update\_id

Foreign Key: NA

| **SL.No** | **column\_name** | **Datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | stock\_update\_id | int |  | Primary Key-Auto increment |
| 2 | stock\_update\_date | date |  | date of stock update |

Table Name: Stock\_Item

Primary Key: stock\_item\_id

Foreign Key: stock\_update\_id , material\_item\_id

Foreign Key Tables: Stock\_Update , Material\_Item

| **SL.No** | **column\_name** | **Datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | stock\_item\_id | int |  | Primary Key-Auto increment |
| 2 | stock\_update\_id | int |  | Foreign Key |
| 3 | material\_item\_id | int |  | Foreign Key |
| 4 | stock\_item\_quantity | int |  | quantity of the item |
| 5 | stock\_item\_price | int |  | price of the item |

Table Name: Material\_Request

Primary Key: material\_request\_id

Foreign Key: work\_allocation\_id , material\_item\_id

Foreign Key Tables: Work\_Allocation , Material\_Item

| **SL.No** | **column\_name** | **Datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | material\_request\_id | int |  | Primary Key-Auto increment |
| 2 | work\_allocation\_id | int |  | Foreign Key |
| 3 | material\_item\_id | int |  | Foreign Key |
| 4 | material\_request\_quantity | int |  | Requested quantity of the item |

Table Name: Material\_Request\_Status

Primary Key: material\_request\_status\_id

Foreign Key: material\_request\_id

Foreign Key Tables: Material\_Request

| **SL.No** | **column\_name** | **Datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | material\_request\_status\_id | int |  | Primary Key-Auto increment |
| 2 | material\_request\_id | int |  | Foreign Key |
| 3 | material\_request\_logged\_date | date |  | date of material request |
| 4 | material\_request\_status\_updated\_date | date |  | date of status change or update |
| 5 | material\_request\_status | String | 45 | status of material request |
| 6 | material\_request\_status\_updated\_by | int |  | User who updated the request status(1-Admin ,2 -Lineman etc) |
| 7 | material\_request\_status\_description | String | 45 | Description of the current request status |

Table Name: Material\_Delivery

Primary Key: material\_delivery\_id

Foreign Key: material\_request\_id

Foreign Key Tables: Material\_Request

| **SL.No** | **column\_name** | **Datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | material\_delivery\_id | int |  | Primary Key-Auto increment |
| 2 | material\_request\_id | int |  | Foreign Key |
| 3 | material\_delivery\_quantity | int |  | Quantity of material or items delivered/issued |

Table Name: Material\_Delivery\_Status

Primary Key: material\_delivery\_status\_id

Foreign Key: material\_delivery\_id

Foreign Key Tables: Material\_Delivery

| **SL.No** | **column\_name** | **Datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | material\_delivery\_status\_id | int |  | Primary Key-Auto increment |
| 2 | material\_delivery\_id | int |  | Foreign Key |
| 3 | material\_delivery\_status\_updated\_date | date |  | Date of status update |
| 4 | material\_delivery\_status | String | 45 | Status of material delivery |
| 5 | material\_delivery\_status\_description | String | 45 | Description of delivery status |

Table Name: Payment\_Bill

Primary Key: payment\_bill\_id

Foreign Key: work\_allocation\_id

Foreign Key Tables: Work\_Allocation

| **SL.No** | **column\_name** | **Datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | payment\_bill\_id | int |  | Primary Key-Auto increment |
| 2 | work\_allocation\_id | int |  | Foreign Key |
| 3 | payment\_bill\_date | date |  | Date of bill generation |
| 4 | payment\_bill\_amount | int |  | Amount to be paid |
| 5 | payment\_bill\_details | String | 45 | Details of the bill |

Table Name: Payment\_Bill\_Receipt

Primary Key: payment\_bill\_receipt\_id

Foreign Key: payment\_bill\_id

Foreign Key Tables: Payment\_Bill

| **SL.No** | **column\_name** | **Datatype** | **size** | **Description** |
| --- | --- | --- | --- | --- |
| 1 | payment\_bill\_receipt\_id | int |  | Primary Key-Auto increment |
| 2 | payment\_bill\_id | int |  | Foreign Key |
| 3 | payment\_bill\_receipt\_date | date |  | Date of bill payment |
| 4 | payment\_bill\_received\_amount | int |  | Amount paid |