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Declaration

I confirm that I understand my coursework needs to be submitted online via My second teacher under the relevant module page before the deadline for my assignment to be accepted and marked. I am fully aware that late submission will be treated as non-submission and a mark of zero will be awarded

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1. Normalization

Normalization is a process in a database management system (DBMS) that minimizes data redundancy, enhances data integrity, and organizes data into a structured, tabular format by removing duplicate entries from relational tables. By systematically arranging columns and tables, it ensures that integrity constraints are upheld, dependencies are properly managed, and issues like insertion, update, and deletion anomalies are avoided. (Kitthu, 2024)

UNF(Unnormalization):

In UNF, data is stored in a single table without any normalization. It may contain repeating groups and is not organized to eliminate redundancy.

Note: Adding RoleId, RoleName and Salary to Users' table.

Users (UserId, UserName, UserEmail, UserContact, RoleId, RoleName, Salary {ProjectId, ProjectName, ProjectStartDate, ProjectEndDate, ProjectStatus{TaskId, TaskName, TaskStartDate, TaskDueDate, TaskStatus}})

UserId	UserName	UserEmail	UserContact	RoleId	RoleName	Salary	ProjectId	ProjectName	ProjectStartDate	ProjectDueDate	ProjectStatus	TaskId	TaskName	TaskStartDate	TaskDueDate	TaskStatus
U-01	Sam Smith	smith@gmail.com	9859697989	R-01	Designer	30000	P-01	Enrolment System	1/1/2024	10/23/2024	On going	T-01	Student Registration	1/1/2024	2/20/2024	Completed
							P-01	Enrolment System	1/1/2024	10/23/2024	On going	T-02	Student Counselling Form	1/5/2024	6/15/2024	On going
							P-02	Attendance System	3/1/2024	12/12/2024	On going	T-03	Biometric Registration	3/10/2024	3/20/2024	Completed

Figure 1: UNF Table

1Nf:

In 1NF, each column contains atomic values, and there are no repeating groups. It eliminates duplicate rows and ensures data is stored in a tabular format.

Users1 (UserId, UserName, UserEmail, UserContact, RoleId, RoleName, Salary)

UserId	UserName	UserEmail	UserContact	RoleId	RoleName	Salary
U-01	Sam Smith	smith@gmail.com	9859697889	R-01	Designer	30000

Figure 2: 1NF Users1 table

Project1 (UserID*, ProjectID, ProjectName, ProjectStartDate, ProjectEndDate, ProjectStatus)

UserId	ProjectId	ProjectName	ProjectStartDate	ProjectEndDate	ProjectStatus
U-01	P-01	Enrollment System	2024/01/01	2024/10/23	On going
U-01	P-01	Enrollment System	2024/01/01	2024/10/23	On going
U-01	P-02	Attendance Sytem	2024/03/01	2024/12/12	On going

Figure 3: 1NF Project1 table

Task1 (ProjectID*, TaskId, TaskName, TaskStartDate, TaskDueDate, TaskStatus)

ProjectId	TaskId	TaskName	TaskStartDate	TaskDueDate	TaskStatus
P-01	T-01	Student Registration	2024/01/01	2024/10/20	Completed
P-01	T-02	Student Counselling Form	2024/01/05	2024/06/15	On going
P-02	T-03	Biometric Registration	2024/03/10	2024/03/20	Completed

2NF (removing partial and full functional dependency)

In 2NF, the table is in 1NF, and all non-key attributes are fully functionally dependent on the primary key. It removes partial dependencies.

Partial dependency:

ProjectId → ProjectName, ProjectStartDate, ProjectDueDate, ProjectStatus

TaskId → TaskName, TaskStartDate, TaskDueDate, TaskStatus

Users2 (UserId, UserName, UserEmail, UserContact, RoleId, RoleName, RoleSalary)

UserId	UserName	UserEmail	UserContact	RoleId	RoleName	Salary
U-01	Sam Smith	smith@gmail.com	9859697889	R-01	Designer	30000

Figure 4: 2NF Users table

UserProject2 (UserId*, ProjectId*)

UserId	ProjectId
U-01	P-01
U-01	P-01
U-01	P-02

Figure 5: 2NF UserProject table

Project2 (ProjectID, ProjectName, ProjectStartDate, ProjectDueDate, ProjectStatus)

ProjectId	ProjectName	ProjectStartDate	ProjectEndDate	ProjectStatus
P-01	Enrollment System	2024/01/01	2024/10/23	On going
P-02	Attendance System	2024/03/01	2024/12/12	On going

Figure 6: 1NF Project table

ProjectDetails2 (TaskId*, ProjectId*)

TaskId	ProjectId
--------	-----------

T-01	P-01
T-02	P-01
T-03	P-02

Figure 7: 2NF ProjectDetails2 table

Task2 ((TaskID, TaskName, TaskStartDate, TaskDueDate, TaskStatus)

TaskId	TaskName	TaskStartDate	TaskDueDate	TaskStatus
T-01	Student Registration	2024/01/01	2024/10/20	Completed
T-02	Student Counselling Form	2024/01/05	2024/06/15	On going
T-03	Biometric Registration	2024/03/10	2024/03/20	Completed

3NF (removing transitive dependency)

In 3NF, the table is in 2NF, and all transitive dependencies are eliminated. Each attribute is functionally dependent only on the primary key.

$A \rightarrow B \rightarrow C$

Transitive Dependency:

$UserId \rightarrow RoleId \rightarrow RoleName, RoleSalary$

Users3 (UserId, UserName, UserEmail, UserContact, RoleId)

UserId	UserName	UserEmail	UserContact	RoleId
U-01	Sam Smith	smith@gmail.com	9859697889	R-01

Figure 8: 3NF Users table

Roles3 (RoleId, RoleName, RoleSalary)

RoleId	RoleName	Salary
R-01	Designer	30000

Figure 9: 3NF Roles table

UserProject3 (UserId*, ProjectID*)

UserId	ProjectId
U-01	P-01
U-01	P-01
U-01	P-02

Figure 10: 3NF UserProject3 table

Project3 (ProjectId, ProjectName, ProjectStartDate, ProjectDueDate, ProjectStatus)

ProjectId	ProjectName	ProjectStartDate	ProjectEndDate	ProjectStatus
P-01	Enrollment System	2024/01/01	2024/10/23	On going
P-02	Attendance System	2024/03/01	2024/12/12	On going

Figure 11: 3NF Project table

ProjectDetails3 (TaskId*, ProjectId*)

TaskId	ProjectId
T-01	P-01
T-02	P-01
T-03	P-02

*Figure 12: 3NF ProjectDetails table***Task3** ((TaskId, TaskName, TaskStartDate, TaskDueDate, TaskStatus)

TaskId	TaskName	TaskStartDate	TaskDueDate	TaskStatus
T-01	Student Registration	2024/01/01	2024/10/20	Completed
T-02	Student Counselling Form	2024/01/05	2024/06/15	On going
T-03	Biometric Registration	2024/03/10	2024/03/20	Completed

1. Initial ERD

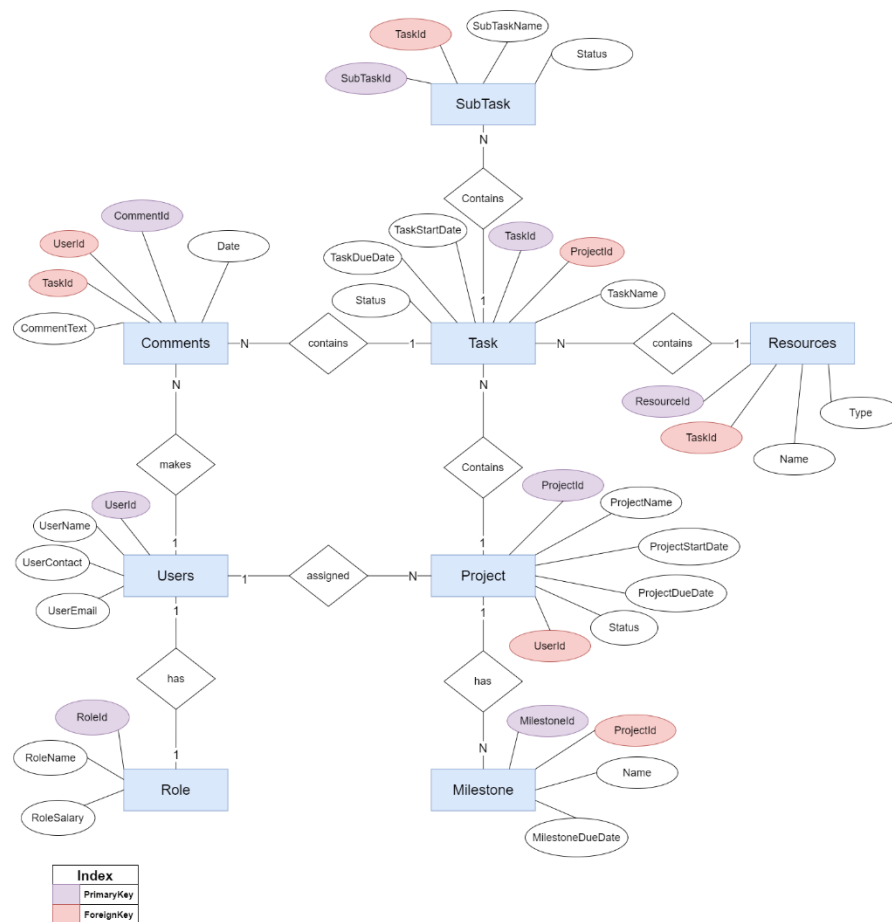


Figure 13: Initial Erd

Relationships

- Each users have one role, but each role can be assigned to multiple users.
- Each comment is made by one user, but each user can make multiple comments.
- Each project is assigned to one user, but each user can be assigned to multiple projects.
- Each task belongs to one project, but each project can contain multiple tasks.
- Each milestone is associated with one project, but each project can have multiple milestones.
- Each subtask belongs to one task, but each task can contain multiple subtasks.
- Each resource is associated with one task, but each task can have multiple resources.
- Each comment is linked to one task, but each task can have multiple comments.

Entities and Attributes

i. Users

Attributes:

- UserId (Primary Key)
- UserName
- UserContact
- UserEmail

ii. Role

Attributes:

- RoleId (Primary Key)
- RoleName
- RoleSalary

iii. Task

Attributes:

- TaskId (Primary Key)
- TaskName
- TaskStartDate
- TaskDueDate
- Status
- ProjectId (Foreign Key)

iv. SubTask

Attributes:

- SubTaskId (Primary Key)
- SubTaskName
- Status
- TaskId (Foreign Key)

v. Resources

Attributes:

- ResourceId (Primary Key)
- Name
- Type
- TaskId (Foreign Key)

vi. Comments

Attributes:

- CommentId (Primary Key)
- CommentText
- Date
- TaskId (Foreign Key)
- UserId (Foreign Key)

vii. Project

Attributes:

- ProjectId (Primary Key)
- ProjectName
- ProjectStartDate
- ProjectDueDate
- Status
- UserId (Foreign Key)

viii. Milestone

Attributes:

- MilestoneId (Primary Key)
- Name
- MilestoneDueDate
- ProjectId (Foreign Key)

2. Final ERD

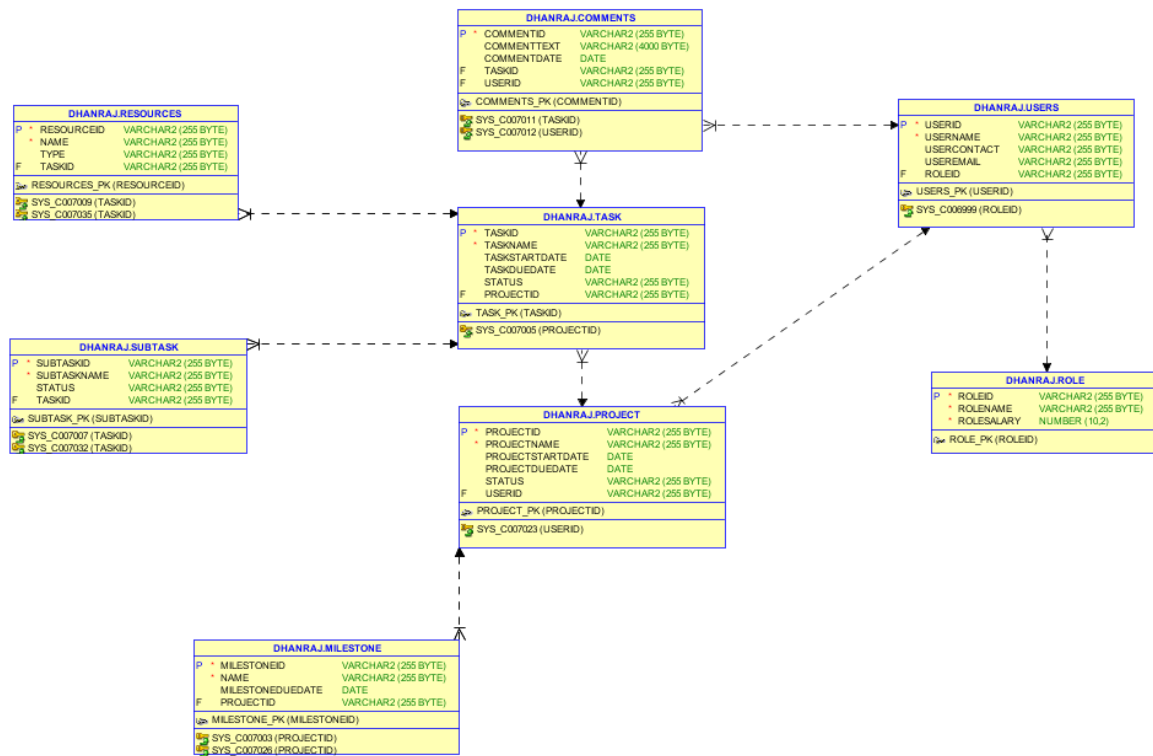


Figure 14: Final ERD

3. Database

Creating User and granting Privileges

```
Enter user-name: sys as sysdba
Enter password:

Connected to:
Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production

SQL> CREATE USER Dhanraj IDENTIFIED BY dhanraj100;
User created.

SQL> grant all privileges to Dhanraj;
grant all privileges to Dhanraj
*
ERROR at line 1:
ORA-00990: missing or invalid privilege

SQL> grant all privileges to Dhanraj;
Grant succeeded.

SQL> connect Dhanraj/dhanraj100
Connected.
SQL>
```

Figure 15: Creating User and Granting privileges

4.1 Table Creation:

Creating a Table for “Role”

```
SQL> CREATE TABLE Role (    RoleId INT PRIMARY KEY,    RoleName VARCHAR(100),    RoleSalary DECIMAL(10, 2));

Table created.

SQL> desc Role;
Name                                Null?    Type
-----
ROLEID                             NOT NULL NUMBER(38)
ROLENAME                           VARCHAR2(100)
ROLESALARY                          NUMBER(10,2)
```

Figure 16: Creating Role Table

Creating a Table for “Users”

```
SQL> CREATE TABLE Users (    UserId INT PRIMARY KEY,    UserName VARCHAR(100),    UserContact VARCHAR(15),    UserEmail VARCHAR(100),    RoleId INT,    FOREIGN KEY (RoleId) REFERENCES Role(RoleId));

Table created.

SQL> desc Users;
Name                                Null?    Type
-----
USERID                             NOT NULL NUMBER(38)
USERNAME                           VARCHAR2(100)
USERCONTACT                        VARCHAR2(15)
USEREMAIL                          VARCHAR2(100)
ROLEID                             NUMBER(38)
```

Figure 17: Creating Users Table

Creating a Table for “Project”

```
SQL> CREATE TABLE Project (
  2     ProjectId INT PRIMARY KEY,
  3     ProjectName VARCHAR(100),
  4     ProjectStartDate DATE,
  5     ProjectDueDate DATE,
  6     Status VARCHAR(50),
  7     UserId INT,
  8     FOREIGN KEY (UserId) REFERENCES Users(UserId)
  9 );
```

Table created.

```
SQL> desc Project;
```

Name	Null?	Type
PROJECTID	NOT NULL	NUMBER(38)
PROJECTNAME		VARCHAR2(100)
PROJECTSTARTDATE		DATE
PROJECTDUEDATE		DATE
STATUS		VARCHAR2(50)
USERID		NUMBER(38)

Figure 18: Creating Project Table

Creating a Table for “Milestone”

```
SQL> CREATE TABLE Milestone (
  2     MilestoneId INT PRIMARY KEY,
  3     Name VARCHAR(100),
  4     MilestoneDueDate DATE,
  5     ProjectId INT,
  6     FOREIGN KEY (ProjectId) REFERENCES Project(ProjectId)
  7 );
```

Table created.

```
SQL> desc Milestone;
```

Name	Null?	Type
MILESTONEID	NOT NULL	NUMBER(38)
NAME		VARCHAR2(100)
MILESTONEDUEDATE		DATE
PROJECTID		NUMBER(38)

Figure 19: Creating Milestone Table

Creating a Table for “Task”

```
SQL> CREATE TABLE Task (
2     TaskId INT PRIMARY KEY,
3     TaskName VARCHAR(100),
4     TaskStartDate DATE,
5     TaskDueDate DATE,
6     Status VARCHAR(50),
7     ProjectId INT,
8     FOREIGN KEY (ProjectId) REFERENCES Project(ProjectId)
9 );

Table created.
```

```
SQL> desc Task;
Name                               Null?   Type
-----
TASKID                             NOT NULL NUMBER(38)
TASKNAME                           VARCHAR2(100)
TASKSTARTDATE                       DATE
TASKDUEDATE                         DATE
STATUS                             VARCHAR2(50)
PROJECTID                           NUMBER(38)
```

Figure 20: Creating Task Table

Creating a Table for “SubTask”

```
SQL> CREATE TABLE SubTask (
2     SubTaskId INT PRIMARY KEY,
3     SubTaskName VARCHAR(100),
4     Status VARCHAR(50),
5     TaskId INT,
6     FOREIGN KEY (TaskId) REFERENCES Task(TaskId)
7 );

Table created.
```

```
SQL> desc SubTask;
Name                               Null?   Type
-----
SUBTASKID                           NOT NULL NUMBER(38)
SUBTASKNAME                         VARCHAR2(100)
STATUS                             VARCHAR2(50)
TASKID                              NUMBER(38)
```

Figure 21: Creating SubTask Table

Creating a Table for “Resources”

```
SQL> CREATE TABLE Resources (
  2     ResourceId INT PRIMARY KEY,
  3     Name VARCHAR(100),
  4     Type VARCHAR(50),
  5     TaskId INT,
  6     FOREIGN KEY (TaskId) REFERENCES Task(TaskId)
  7 );

Table created.
```

```
SQL> desc Resources;
Name                                     Null?   Type
-----
RESOURCEID                             NOT NULL NUMBER(38)
NAME                                              VARCHAR2(100)
TYPE                                              VARCHAR2(50)
TASKID                                           NUMBER(38)
```

Figure 22: Creating Resources Table

Creating a Table for “Comments”

```
SQL> CREATE TABLE Comments (
  2     CommentId INT PRIMARY KEY,
  3     CommentText VARCHAR2(4000),
  4     CommentDate DATE,
  5     TaskId INT,
  6     UserId INT,
  7     FOREIGN KEY (TaskId) REFERENCES Task(TaskId),
  8     FOREIGN KEY (UserId) REFERENCES Users(UserId)
  9 );

Table created.
```

```
SQL> desc Comments;
Name                                     Null?   Type
-----
COMMENTID                             NOT NULL NUMBER(38)
COMMENTTEXT                           VARCHAR2(4000)
COMMENTDATE                           DATE
TASKID                                NUMBER(38)
USERID                                NUMBER(38)
```

Figure 23: Creating Comments Table

4.2 Data Inserting and Displaying

Inserting value into Role Table

```
SQL> INSERT ALL
  2   INTO Role (RoleId, RoleName, RoleSalary) VALUES ('R-01', 'Designer', 30000.00)
  3   INTO Role (RoleId, RoleName, RoleSalary) VALUES ('R-02', 'Developer', 50000.00)
  4   INTO Role (RoleId, RoleName, RoleSalary) VALUES ('R-03', 'Tester', 40000.00)
  5   INTO Role (RoleId, RoleName, RoleSalary) VALUES ('R-04', 'HR', 60000.00)
  6   INTO Role (RoleId, RoleName, RoleSalary) VALUES ('R-05', 'Admin', 45000.00)
  7   SELECT * FROM dual;
```

Figure 24: Inserting Value in Role Table

```
SQL> SELECT * FROM ROLE;
```

ROLEID	ROLENAME	ROLESALARY
R-01	Designer	30000
R-02	Developer	50000
R-03	Tester	40000
R-04	HR	60000
R-05	Admin	45000

Figure 25: Displaying Value of Role Table

Inserting value into Users Table

```
SQL> INSERT ALL
  2   INTO Users (UserId, UserName, UserContact, UserEmail, RoleId) VALUES ('U-01', 'Sam Smith',
'+9779859697989', 'Smith@gmail.com', 'R-01')
  3   INTO Users (UserId, UserName, UserContact, UserEmail, RoleId) VALUES ('U-02', 'Ram', '+9779
876543210', 'ram@gmail.com', 'R-02')
  4   INTO Users (UserId, UserName, UserContact, UserEmail, RoleId) VALUES ('U-03', 'Shyam', '+97
79812345678', 'shyam@gmail.com', 'R-02')
  5   INTO Users (UserId, UserName, UserContact, UserEmail, RoleId) VALUES ('U-04', 'Hari', '+977
9823456789', 'hari@gmail.com', 'R-03')
  6   INTO Users (UserId, UserName, UserContact, UserEmail, RoleId) VALUES ('U-05', 'Gita', '+977
9834567890', 'gita@gmail.com', 'R-04')
  7   SELECT * FROM dual;
```

5 rows created.

Figure 26: Inserting Value in Users Table

```
SQL> SELECT * FROM Users;
```

USERID	USERNAME	USERCONTACT	USEREMAIL	ROLEID
U-01	Sam Smith	+9779859697989	Smith@gmail.com	R-01
U-02	Ram	+9779876543210	ram@gmail.com	R-02
U-03	Shyam	+9779812345678	shyam@gmail.com	R-02
U-04	Hari	+9779823456789	hari@gmail.com	R-03
U-05	Gita	+9779834567890	gita@gmail.com	R-04

SQL> _

Figure 27: Displaying Value of Role Table

Inserting value into Project Table

```

SQL> INSERT ALL
  2   INTO Project (ProjectId, ProjectName, ProjectStartDate, ProjectDueDate, Status, UserId)
  3   VALUES ('P-01', 'Enrolment System', TO_DATE('2024-01-01', 'YYYY-MM-DD'), TO_DATE('2024-10-2
3', 'YYYY-MM-DD'), 'Ongoing', 'U-01')
  4   INTO Project (ProjectId, ProjectName, ProjectStartDate, ProjectDueDate, Status, UserId)
  5   VALUES ('P-02', 'Attendance System', TO_DATE('2024-03-01', 'YYYY-MM-DD'), TO_DATE('2024-12-
12', 'YYYY-MM-DD'), 'Ongoing', 'U-02')
  6   INTO Project (ProjectId, ProjectName, ProjectStartDate, ProjectDueDate, Status, UserId)
  7   VALUES ('P-03', 'Library Management', TO_DATE('2024-05-01', 'YYYY-MM-DD'), TO_DATE('2024-11
-30', 'YYYY-MM-DD'), 'Ongoing', 'U-03')
  8   INTO Project (ProjectId, ProjectName, ProjectStartDate, ProjectDueDate, Status, UserId)
  9   VALUES ('P-04', 'Student Portal', TO_DATE('2024-07-01', 'YYYY-MM-DD'), TO_DATE('2024-09-20'
, 'YYYY-MM-DD'), 'Completed', 'U-04')
 10   INTO Project (ProjectId, ProjectName, ProjectStartDate, ProjectDueDate, Status, UserId)
 11   VALUES ('P-05', 'Examination System', TO_DATE('2024-02-15', 'YYYY-MM-DD'), TO_DATE('2024-08
-10', 'YYYY-MM-DD'), 'Ongoing', 'U-05')
 12  SELECT * FROM dual;

5 rows created.

```

Figure 28: Inserting Value in Project Table

```

SQL> SELECT * FROM Project;

PROJECTID  PROJECTNAME          PROJECTSTARTDAT  PROJECTDUEDATE    STATUS          USERID
-----
P-01       Enrolment System     01-JAN-24        23-OCT-24         Ongoing         U-01
P-02       Attendance System    01-MAR-24        12-DEC-24         Ongoing         U-02
P-03       Library Management   01-MAY-24        30-NOV-24         Ongoing         U-03
P-04       Student Portal       01-JUL-24        20-SEP-24         Completed        U-04
P-05       Examination System   15-FEB-24        10-AUG-24         Ongoing         U-05

SQL>

```

Figure 29: Displaying Value of Project Table

Inserting value into Milestone Table

```

SQL> INSERT ALL
  2   INTO Milestone (MilestoneId, Name, MilestoneDueDate, ProjectId)
  3   VALUES ('M-01', 'Design Phase', TO_DATE('2024-02-15', 'YYYY-MM-DD'), 'P-01')
  4   INTO Milestone (MilestoneId, Name, MilestoneDueDate, ProjectId)
  5   VALUES ('M-02', 'Development Phase', TO_DATE('2024-05-01', 'YYYY-MM-DD'), 'P-01')
  6   INTO Milestone (MilestoneId, Name, MilestoneDueDate, ProjectId)
  7   VALUES ('M-03', 'Testing Phase', TO_DATE('2024-08-01', 'YYYY-MM-DD'), 'P-02')
  8   INTO Milestone (MilestoneId, Name, MilestoneDueDate, ProjectId)
  9   VALUES ('M-04', 'Deployment Phase', TO_DATE('2024-10-01', 'YYYY-MM-DD'), 'P-03')
 10   INTO Milestone (MilestoneId, Name, MilestoneDueDate, ProjectId)
 11   VALUES ('M-05', 'Final Review', TO_DATE('2024-07-01', 'YYYY-MM-DD'), 'P-04')
 12  SELECT * FROM dual;

5 rows created.

```

Figure 30: Inserting Value in Milestone Table

```
SQL> SELECT * FROM Milestone;
```

MILESTONEI	NAME	MILESTONEDUEDAT	PROJECTID
M-01	Design Phase	15-FEB-24	P-01
M-02	Development Phase	01-MAY-24	P-01
M-03	Testing Phase	01-AUG-24	P-02
M-04	Deployment Phase	01-OCT-24	P-03
M-05	Final Review	01-JUL-24	P-04

```
SQL>
```

Figure 31: Displaying Value of Milestone Table

Inserting value into Task Table

```
SQL> INSERT ALL
  2   INTO Task (TaskId, TaskName, TaskStartDate, TaskDueDate, Status, ProjectId)
  3   VALUES ('T-01', 'Student Registration', TO_DATE('2024-01-01', 'YYYY-MM-DD'), TO_DATE('2024-
02-20', 'YYYY-MM-DD'), 'Completed', 'P-01')
  4   INTO Task (TaskId, TaskName, TaskStartDate, TaskDueDate, Status, ProjectId)
  5   VALUES ('T-02', 'Student Counselling Form', TO_DATE('2024-01-05', 'YYYY-MM-DD'), TO_DATE('2
024-06-15', 'YYYY-MM-DD'), 'Ongoing', 'P-01')
  6   INTO Task (TaskId, TaskName, TaskStartDate, TaskDueDate, Status, ProjectId)
  7   VALUES ('T-03', 'Biometric Registration', TO_DATE('2024-03-10', 'YYYY-MM-DD'), TO_DATE('202
4-03-20', 'YYYY-MM-DD'), 'Completed', 'P-02')
  8   INTO Task (TaskId, TaskName, TaskStartDate, TaskDueDate, Status, ProjectId)
  9   VALUES ('T-04', 'Design User Interface', TO_DATE('2024-04-01', 'YYYY-MM-DD'), TO_DATE('2024
-06-01', 'YYYY-MM-DD'), 'Ongoing', 'P-03')
 10   INTO Task (TaskId, TaskName, TaskStartDate, TaskDueDate, Status, ProjectId)
 11   VALUES ('T-05', 'User Authentication', TO_DATE('2024-05-01', 'YYYY-MM-DD'), TO_DATE('2024-0
8-01', 'YYYY-MM-DD'), 'Ongoing', 'P-04')
 12  SELECT * FROM dual;
```

5 rows created.

Figure 32: Inserting Value in Task Table

```
SQL> SELECT * FROM Task;
```

TASKID	TASKNAME	TASKSTARTDAT	TASKDUEDATE	STATUS	PROJECTID
T-01	Student Registration	01-JAN-24	20-FEB-24	Completed	P-01
T-02	Student Counselling Form	05-JAN-24	15-JUN-24	Ongoing	P-01
T-03	Biometric Registration	10-MAR-24	20-MAR-24	Completed	P-02
T-04	Design User Interface	01-APR-24	01-JUN-24	Ongoing	P-03
T-05	User Authentication	01-MAY-24	01-AUG-24	Ongoing	P-04

```
SQL>
```

Figure 33: Displaying Value of Task Table

Inserting value into SubTask Table

```
SQL> INSERT ALL
  2     INTO SubTask (SubTaskId, SubTaskName, Status, TaskId) VALUES ('S-01', 'Create Registratio
n Form', 'Completed', 'T-01')
  3     INTO SubTask (SubTaskId, SubTaskName, Status, TaskId) VALUES ('S-02', 'Design Counselling
ai Form', 'Ongoing', 'T-02')
  4     INTO SubTask (SubTaskId, SubTaskName, Status, TaskId) VALUES ('S-03', 'Biometric System S
etup', 'Completed', 'T-03')
  5     INTO SubTask (SubTaskId, SubTaskName, Status, TaskId) VALUES ('S-04', 'Develop Interface
Prototype', 'Ongoing', 'T-04')
  6     INTO SubTask (SubTaskId, SubTaskName, Status, TaskId) VALUES ('S-05', 'Implement Login Me
chanism', 'Ongoing', 'T-05')
  7     SELECT * FROM dual;

5 rows created.
```

Figure 34: Inserting Value in SubTask Table

```
SQL> SELECT * FROM SubTask;
```

SUBTASKID	SUBTASKNAME	STATUS	TASKID
S-01	Create Registration Form	Completed	T-01
S-02	Design Counselling Form	Ongoing	T-02
S-03	Biometric System Setup	Completed	T-03
S-04	Develop Interface Prototype	Ongoing	T-04
S-05	Implement Login Mechanism	Ongoing	T-05

```
SQL> _
```

Figure 35: Displaying Value of SubTask Table

Inserting value into Resources Table

```
SQL> INSERT ALL
  2     INTO Resources (ResourceId, Name, Type, TaskId) VALUES ('R-01', 'Database Server', 'Hardw
are', 'T-01')
  3     INTO Resources (ResourceId, Name, Type, TaskId) VALUES ('R-02', 'UI Designer', 'Human Res
ource', 'T-04')
  4     INTO Resources (ResourceId, Name, Type, TaskId) VALUES ('R-03', 'Biometric Device', 'Hard
ware', 'T-03')
  5     INTO Resources (ResourceId, Name, Type, TaskId) VALUES ('R-04', 'Software Developer', 'Hu
man Resource', 'T-02')
  6     INTO Resources (ResourceId, Name, Type, TaskId) VALUES ('R-05', 'Security Expert', 'Human
Resource', 'T-05')
  7     SELECT * FROM dual;

5 rows created.

SQL> _
```

Figure 36: Inserting Value of Resources Table

```
SQL> SELECT * FROM Resources;
```

RESOURCEID	NAME	TYPE	TASKID
R-01	Database Server	Hardware	T-01
R-02	UI Designer	Human Resource	T-04
R-03	Biometric Device	Hardware	T-03
R-04	Software Developer	Human Resource	T-02
R-05	Security Expert	Human Resource	T-05

```
SQL>
```

Figure 37: Displaying Value of Resources Table

Inserting value into Comments Table

```
SQL> INSERT ALL
2  INTO Comments (CommentId, CommentText, CommentDate, TaskId, UserId)
3  VALUES ('C-01', 'Task completed successfully.', TO_DATE('2024-02-21', 'YYYY-MM-DD'), 'T-01', 'U-01')
4  INTO Comments (CommentId, CommentText, CommentDate, TaskId, UserId)
5  VALUES ('C-02', 'Form design still in progress.', TO_DATE('2024-06-01', 'YYYY-MM-DD'), 'T-02', 'U-02')
6  INTO Comments (CommentId, CommentText, CommentDate, TaskId, UserId)
7  VALUES ('C-03', 'Biometric registration successfully done.', TO_DATE('2024-03-21', 'YYYY-MM-DD'), 'T-03', 'U-03')
8  INTO Comments (CommentId, CommentText, CommentDate, TaskId, UserId)
9  VALUES ('C-04', 'User interface prototype developed.', TO_DATE('2024-06-15', 'YYYY-MM-DD'), 'T-04', 'U-04')
10 INTO Comments (CommentId, CommentText, CommentDate, TaskId, UserId)
11 VALUES ('C-05', 'Login mechanism implemented.', TO_DATE('2024-08-10', 'YYYY-MM-DD'), 'T-05', 'U-05')
12 SELECT * FROM dual;
```

5 rows created.

Figure 38: Inserting Value in Comments Table

```
SQL> SELECT * FROM Comments;
```

COMMENTID	COMMENTTEXT	COMMENTDATE	TASKID	USERID
C-01	Task completed successfully.	21-FEB-24	T-01	U-01
C-02	Form design still in progress.	01-JUN-24	T-02	U-02
C-03	Biometric registration successfully done.	21-MAR-24	T-03	U-03
C-04	User interface prototype developed.	15-JUN-24	T-04	U-04
C-05	Login mechanism implemented.	10-AUG-24	T-05	U-05

```
SQL>
```

Figure 39: Displaying Value of Comments Table

4. Data Dictionary

COMMENTS						
Columns	Constraints	Grants	Statistics	Triggers	Dependencies	Details
Partitions	Indexes					
COLUMN NAME	DATA TYPE	NULLABLE	DATA DEFAULT	COLUMN ID	COMMENTS	
COMMENTID	NUMBER(38,0)	No	null	1	null	
COMMENTTEXT	VARCHAR2(4000 BYTE)	Yes	null	2	null	
COMMENTDATE	DATE	Yes	null	3	null	
TASKID	NUMBER(38,0)	Yes	null	4	null	
USERID	NUMBER(38,0)	Yes	null	5	null	

Figure 40: Data Dictionary of Comments

MILESTONE						
Columns	Constraints	Grants	Statistics	Triggers	Dependencies	Details
Partitions	Indexes					
COLUMN NAME	DATA TYPE	NULLABLE	DATA DEFAULT	COLUMN ID	COMMENTS	
MILESTONEID	NUMBER(38,0)	No	null	1	null	
NAME	VARCHAR2(100 BYTE)	Yes	null	2	null	
MILESTONEDUE DATE	DATE	Yes	null	3	null	
PROJECTID	NUMBER(38,0)	Yes	null	4	null	

Figure 41: Data Dictionary of Milestone

PROJECT						
Columns	Constraints	Grants	Statistics	Triggers	Dependencies	Details
Partitions	Indexes					
COLUMN NAME	DATA TYPE	NULLABLE	DATA DEFAULT	COLUMN ID	COMMENTS	
PROJECTID	NUMBER(38,0)	No	null	1	null	
PROJECTNAME	VARCHAR2(100 BYTE)	Yes	null	2	null	
PROJECTSTARTDATE	DATE	Yes	null	3	null	
PROJECTDUEDATE	DATE	Yes	null	4	null	
STATUS	VARCHAR2(50 BYTE)	Yes	null	5	null	
USERID	NUMBER(38,0)	Yes	null	6	null	

Figure 42: Data Dictionary of Project

RESOURCES						
Columns	Constraints	Grants	Statistics	Triggers	Dependencies	Details
Partitions	Indexes					
COLUMN NAME	DATA TYPE	NULLABLE	DATA DEFAULT	COLUMN ID	COMMENTS	
RESOURCEID	NUMBER(38,0)	No	null	1	null	
NAME	VARCHAR2(100 BYTE)	Yes	null	2	null	
TYPE	VARCHAR2(50 BYTE)	Yes	null	3	null	
TASKID	NUMBER(38,0)	Yes	null	4	null	

Figure 43: Data Dictionary of Resources

ROLE						
Columns	Constraints	Grants	Statistics	Triggers	Dependencies	Details
Partitions	Indexes					
COLUMN NAME	DATA TYPE	NULLABLE	DATA DEFAULT	COLUMN ID	COMMENTS	
ROLEID	NUMBER(38,0)	No	null	1	null	
ROLENAME	VARCHAR2(100 BYTE)	Yes	null	2	null	
ROLESALARY	NUMBER(10,2)	Yes	null	3	null	

Figure 44: Data Dictionary of Role

SUBTASK

Columns	Constraints	Grants	Statistics	Triggers	Dependencies	Details	Partitions	Indexes
<u>COLUMN NAME</u>	<u>DATA TYPE</u>	<u>NULLABLE</u>	<u>DATA DEFAULT</u>	<u>COLUMN ID</u>	<u>COMMENTS</u>			
SUBTASKID	NUMBER(38,0)	No	null	1	null			
SUBTASKNAME	VARCHAR2(100 BYTE)	Yes	null	2	null			
STATUS	VARCHAR2(50 BYTE)	Yes	null	3	null			
TASKID	NUMBER(38,0)	Yes	null	4	null			

Figure 45: Data Dictionary of SubTask

TASK

Columns	Constraints	Grants	Statistics	Triggers	Dependencies	Details	Partitions	Indexes
<u>COLUMN NAME</u>	<u>DATA TYPE</u>	<u>NULLABLE</u>	<u>DATA DEFAULT</u>	<u>COLUMN ID</u>	<u>COMMENTS</u>			
TASKID	NUMBER(38,0)	No	null	1	null			
TASKNAME	VARCHAR2(100 BYTE)	Yes	null	2	null			
TASKSTARTDATE	DATE	Yes	null	3	null			
TASKDUE DATE	DATE	Yes	null	4	null			
STATUS	VARCHAR2(50 BYTE)	Yes	null	5	null			
PROJECTID	NUMBER(38,0)	Yes	null	6	null			

Figure 46: Data Dictionary of Task

USERS

Columns	Constraints	Grants	Statistics	Triggers	Dependencies	Details	Partitions	Indexes
<u>COLUMN NAME</u>	<u>DATA TYPE</u>	<u>NULLABLE</u>	<u>DATA DEFAULT</u>	<u>COLUMN ID</u>	<u>COMMENTS</u>			
USERID	NUMBER(38,0)	No	null	1	null			
USERNAME	VARCHAR2(100 BYTE)	Yes	null	2	null			
USERCONTACT	VARCHAR2(15 BYTE)	Yes	null	3	null			
USEREMAIL	VARCHAR2(100 BYTE)	Yes	null	4	null			
ROLEID	NUMBER(38,0)	Yes	null	5	null			

Figure 47: Data Dictionary of Users

5. Milestone 3

5.1 User Details Page

Application name Home User Details Project Details Task Details Subtask Details Milestone Details User Project Project Milestone Top Performer

User Details

User ID

User ID

User Name

User Name

User Contact

User Contact

User Email

User Email

Save

Update

Delete

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Figure 48: User Details

5.2 Project Details Page

Application name Home User Details Project Details Task Details Subtask Details Milestone Details User Project Project Milestone Top Performer

Project Details

Project ID

Project ID

Project Name

Project Name

Project Start Date

mm/dd/yyyy

Project Due Date

mm/dd/yyyy

Status

Pending

Save

Update

Delete

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Figure 49: Project Details

5.3 Task Details Page

Application name

Home

User Details

Project Details

Task Details

Subtask Details

Milestone Details

User Project

Project Milestone

Top Performer

Task Details

Task ID

Task ID

Task Name

Task Name

Task Start Date

mm/dd/yyyy

Task Due Date

mm/dd/yyyy

Status

Pending

Save

Update

Delete

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Figure 50: Task Details Page

5.4 Subtask Details Page

Application name

Home

User Details

Project Details

Task Details

Subtask Details

Milestone Details

User Project

Project Milestone

Top Performer

SubTask Details

SubTask ID

SubTask ID

SubTask Name

SubTask Name

Status

Pending

Save

Update

Delete

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Figure 51: Subtask Details

5.5 Milestone Details Page

Application name

Home

User Details

Project Details

Task Details

Subtask Details

Milestone Details

User Project

Project Milestone

Top Performer

Milestone Details

Milestone ID

Milestone ID

Name

Name

Milestone Due Date

mm/dd/yyyy

Save

Update

Delete

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Figure 52: Milestone Details

5.6 User Project Page

Application name

Home

User Details

Project Details

Task Details

Subtask Details

Milestone Details

User Project

Project Milestone

Top Performer

User Projects

Select User

Load Projects

User Details

Projects

© 2025 - My ASP.NET Application

Figure 53: User Project

5.7 Project Milestone page

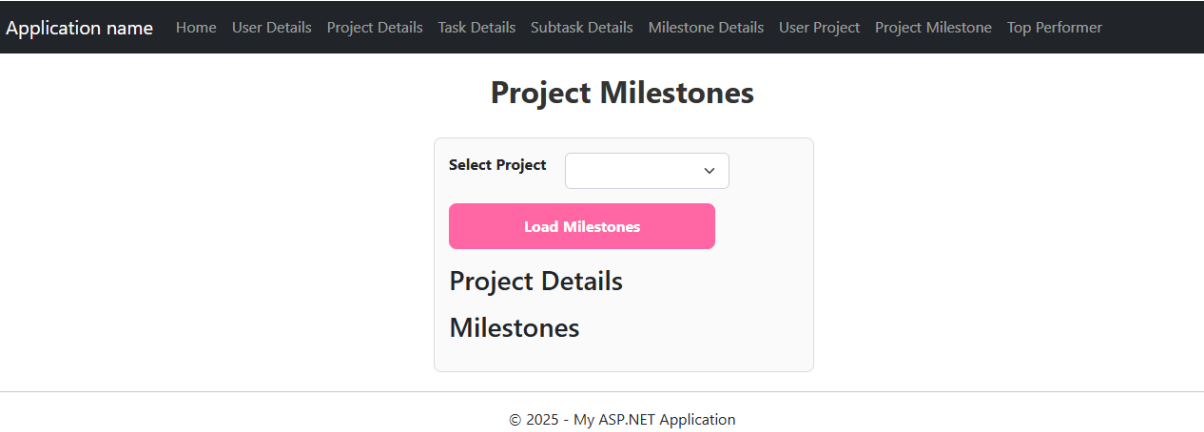


Figure 54: Project Milestone

5.8 Top Performer Page

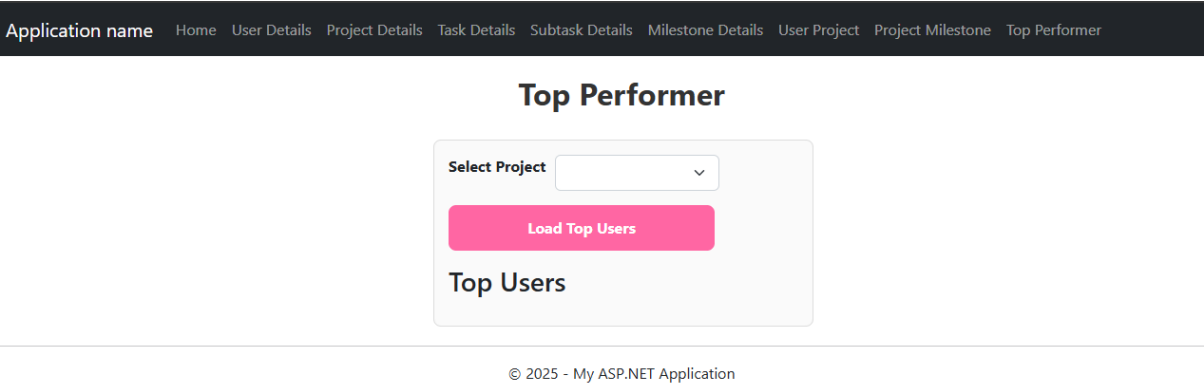


Figure 55: Top Performer

6. Testing

6.1 Adding Data

I. UserDetail Page:

Before adding the data in userDetails page:

Application name
Home
User Details
Project Details
Task Details
Subtask Details
Milestone Details
User Project
Project Milestone
Top Performer

User Details

User ID

User Name

User Contact

User Email

Save

	USERID	USERNAME	USERCONTACT	USEREMAIL	ROLEID
Edit Delete	U-01	Sam Smith	+9779859697989	smith@gmail.com	R-01
Edit Delete	U-02	Ram	+9779876543210	ram@gmail.com	R-02
Edit Delete	U-03	Shyam	+9779812345678	shyam@gmail.com	R-02
Edit Delete	U-04	Hari	+9779823456789	hari@gmail.com	R-03
Edit Delete	U-05	Gita	+9779834567890	gita@gmail.com	R-04

Figure 56: Before adding the data in userDetails page

After Adding the user data:

Home
User Details
Project Details
Task Details
Subtask Details
Milestone Details
User Project
Project Milestone
Top Performer

User Details

User ID

User Name

User Contact

User Email

Save

	USERID	USERNAME	USERCONTACT	USEREMAIL	ROLEID
Edit Delete	U-01	Sam Smith	+9779859697989	smith@gmail.com	R-01
Edit Delete	U-02	Ram	+9779876543210	ram@gmail.com	R-02
Edit Delete	U-03	Shyam	+9779812345678	shyam@gmail.com	R-02
Edit Delete	U-04	Hari	+9779823456789	hari@gmail.com	R-03
Edit Delete	U-05	Gita	+9779834567890	gita@gmail.com	R-04
Edit Delete	U-06	Rahul	+9779859697989	rahul@gmail.com	R-04

Figure 57: After Adding the user data

II. ProjectDetails Page:

Before adding the new project:

Application name

Home

User Details

Project Details

Task Details

Subtask Details

Milestone Details

User Project

Project Milestone

Top Performer

Project Details

Project ID

Project ID

Project Name

Project Name

Project Start Date

mm/dd/yyyy

Project Due Date

mm/dd/yyyy

Status

Pending

Save

	PROJECTID	PROJECTNAME	PROJECTSTARTDATE	PROJECTDUEDATE	STATUS	USERID
Edit Delete	P-01	Enrolment System	1/1/2024 12:00:00 AM	10/20/2024 12:00:00 AM	Ongoing	U-01
Edit Delete	P-02	Attendance System	3/1/2024 12:00:00 AM	12/12/2024 12:00:00 AM	Ongoing	U-02
Edit Delete	P-03	Library Management	5/1/2024 12:00:00 AM	11/30/2024 12:00:00 AM	Ongoing	U-03
Edit Delete	P-04	Student Portal	7/1/2024 12:00:00 AM	9/20/2024 12:00:00 AM	Completed	U-04
Edit Delete	P-05	Examination System	2/15/2024 12:00:00 AM	8/10/2024 12:00:00 AM	Ongoing	U-05

Figure 58: Before adding the new project

After Adding the new project:


[Home](#) [User Details](#) [Project Details](#) [Task Details](#) [Subtask Details](#) [Milestone Details](#) [User Project](#) [Project Milestone](#) [Top Performer](#)

Project Details


Project ID

Project Name

Project Start Date



Project Due Date



Status

Pending

Save

	PROJECTID	PROJECTNAME	PROJECTSTARTDATE	PROJECTDUEDATE	STATUS	USERID
Edit Delete	P-01	Enrolment System	1/1/2024 12:00:00 AM	10/20/2024 12:00:00 AM	Ongoing	U-01
Edit Delete	P-02	Attendance System	3/1/2024 12:00:00 AM	12/12/2024 12:00:00 AM	Ongoing	U-02
Edit Delete	P-03	Library Management	5/1/2024 12:00:00 AM	11/30/2024 12:00:00 AM	Ongoing	U-03
Edit Delete	P-04	Student Portal	7/1/2024 12:00:00 AM	9/20/2024 12:00:00 AM	Completed	U-04
Edit Delete	P-05	Examination System	2/15/2024 12:00:00 AM	8/10/2024 12:00:00 AM	Ongoing	U-05
Edit Delete	P-06	Customer Relationship Management	4/1/2024 12:00:00 AM	12/31/2024 12:00:00 AM	Planned	U-06

Figure 59: After Adding the new project

III. TaskDetails Page:

Before Adding new task:

HomeUser DetailsProject DetailsTask DetailsSubtask DetailsMilestone DetailsUser ProjectProject MilestoneTop Performer

Task Details

Task ID

Task ID

Task Name

Task Name

Task Start Date

mm/dd/yyyy

Task Due Date

mm/dd/yyyy

Status

Pending

Save

	TASKID	TASKNAME	TASKSTARTDATE	TASKDUEDATE	STATUS	PROJECTID
Edit Delete	T-01	Student Registration	1/1/2024 12:00:00 AM	2/20/2024 12:00:00 AM	Completed	P-01
Edit Delete	T-02	Student Counselling Form	1/5/2024 12:00:00 AM	6/15/2024 12:00:00 AM	Ongoing	P-01
Edit Delete	T-03	Biometric Registration	3/10/2024 12:00:00 AM	3/20/2024 12:00:00 AM	Completed	P-02
Edit Delete	T-04	Design User Interface	4/1/2024 12:00:00 AM	6/1/2024 12:00:00 AM	Ongoing	P-03
Edit Delete	T-05	User Authentication	5/1/2024 12:00:00 AM	8/1/2024 12:00:00 AM	Ongoing	P-04

Figure 60: Before Adding new task

After Adding new task:

HomeUser DetailsProject DetailsTask DetailsSubtask DetailsMilestone DetailsUser ProjectProject MilestoneTop Performer

Task Details

Task ID

Task ID

Task Name

Task Name

Task Start Date

mm/dd/yyyy

Task Due Date

mm/dd/yyyy

Status

Pending

Save

	TASKID	TASKNAME	TASKSTARTDATE	TASKDUEDATE	STATUS	PROJECTID
Edit Delete	T-01	Student Registration	1/1/2024 12:00:00 AM	2/20/2024 12:00:00 AM	Completed	P-01
Edit Delete	T-02	Student Counselling Form	1/5/2024 12:00:00 AM	6/15/2024 12:00:00 AM	Ongoing	P-01
Edit Delete	T-03	Biometric Registration	3/10/2024 12:00:00 AM	3/20/2024 12:00:00 AM	Completed	P-02
Edit Delete	T-04	Design User Interface	4/1/2024 12:00:00 AM	6/1/2024 12:00:00 AM	Ongoing	P-03
Edit Delete	T-05	User Authentication	5/1/2024 12:00:00 AM	8/1/2024 12:00:00 AM	Ongoing	P-04
Edit Delete	T-06	System Testing	6/1/2024 12:00:00 AM	6/15/2024 12:00:00 AM	Planned	P-01

Figure 61: After Adding new task

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IV. SubTaskDetails Page:

Before Adding new subtask:

[Home](#)
[User Details](#)
[Project Details](#)
[Task Details](#)
[Subtask Details](#)
[Milestone Details](#)
[User Project](#)
[Project Milestone](#)
[Top Performer](#)

SubTask Details

SubTask ID

SubTask Name

Status

Pending ▾

Save

	SUBTASKID	SUBTASKNAME	STATUS	TASKID
Edit Delete	S-01	Create Registration Form	Completed	T-01
Edit Delete	S-02	Design Counselling Form	Ongoing	T-02
Edit Delete	S-03	Biometric System Setup	Completed	T-03
Edit Delete	S-04	Develop Interface Prototype	Ongoing	T-04
Edit Delete	S-05	Implement Login Mechanism	Ongoing	T-05

Figure 62: Before Adding new subtask

After Adding the data:

[Home](#)
[User Details](#)
[Project Details](#)
[Task Details](#)
[Subtask Details](#)
[Milestone Details](#)
[User Project](#)
[Project Milestone](#)
[Top Performer](#)

SubTask Details

SubTask ID

SubTask Name

Status

Pending ▾

Save

	SUBTASKID	SUBTASKNAME	STATUS	TASKID
Edit Delete	S-01	Create Registration Form	Completed	T-01
Edit Delete	S-02	Design Counselling Form	Ongoing	T-02
Edit Delete	S-03	Biometric System Setup	Completed	T-03
Edit Delete	S-04	Develop Interface Prototype	Ongoing	T-04
Edit Delete	S-05	Implement Login Mechanism	Ongoing	T-05
Edit Delete	S-06	Testing Form Validation	Planned	T-02

Figure 63: After Adding the data

V. MilestoneDetails Page:

Before adding the new milestone:

HomeUser DetailsProject DetailsTask DetailsSubtask DetailsMilestone DetailsUser ProjectProject MilestoneTop Performer

Milestone Details

Milestone ID

Milestone ID

Name

Name

Milestone Due Date

mm/dd/yyyy

Save

MILESTONEID	NAME	MILESTONEDUEDATE	PROJECT_ID
M-01	Design Phase	2/15/2024 12:00:00 AM	
M-02	Development Phase	5/1/2024 12:00:00 AM	
M-03	Testing Phase	8/1/2024 12:00:00 AM	
M-04	Deployment Phase	10/1/2024 12:00:00 AM	
M-05	Final Review	7/1/2024 12:00:00 AM	

Figure 64: Before adding the new milestone

After adding the new milestone:

HomeUser DetailsProject DetailsTask DetailsSubtask DetailsMilestone DetailsUser ProjectProject MilestoneTop Performer

Milestone Details

Milestone ID

Milestone ID

Name

Name

Milestone Due Date

mm/dd/yyyy

Save

MILESTONEID	NAME	MILESTONEDUEDATE	PROJECT_ID
M-01	Design Phase	2/15/2024 12:00:00 AM	
M-02	Development Phase	5/1/2024 12:00:00 AM	
M-03	Testing Phase	8/1/2024 12:00:00 AM	
M-04	Deployment Phase	10/1/2024 12:00:00 AM	
M-05	Final Review	7/1/2024 12:00:00 AM	
M-06	Requirements Finalized	3/15/2024 12:00:00 AM	P-01

Figure 65: After adding the new milestone

6.2 Updating the Data:

i. UserDetails Page:

Before Updating the UserDetails data:

	USERID	USERNAME	USERCONTACT	USEREMAIL	ROLEID
Edit Delete	U-01	Sam Smith	+9779859697989	smith@gmail.com	R-01
Edit Delete	U-02	Ram	+9779876543210	ram@gmail.com	R-02
Edit Delete	U-03	Shyam	+9779812345678	shyam@gmail.com	R-02
Edit Delete	U-04	Hari	+9779823456789	hari@gmail.com	R-03
Edit Delete	U-05	Gita	+9779834567890	gita@gmail.com	R-04
Edit Delete	U-06	Rahul	+9779859697989	rahul@gmail.com	R-04

Figure 66: Before Updating the UserDetails data:

Editing the userDetails:

Edit Delete	U-01	Sam Smith	+9779859697989	smith@gmail.com	R-01
Edit Delete	U-02	Ram	+9779876543210	ram@gmail.com	R-02
Edit Delete	U-03	Shyam	+9779812345678	shyam@gmail.com	R-02
Edit Delete	U-04	Hari	+9779823456789	hari@gmail.com	R-03
Edit Delete	U-05	Gita	+9779834567890	gita@gmail.com	R-04
Update Cancel	U-06	<input type="text" value="Oshima"/>	<input type="text" value="+9779859697989"/>	<input type="text" value="rahul@gmail.com"/>	<input type="text" value="R-04"/>

Figure 67: Editing the userDetails

After Updating the UserDetails data:

	USERID	USERNAME	USERCONTACT	USEREMAIL	ROLEID
Edit Delete	U-01	Sam Smith	+9779859697989	smith@gmail.com	R-01
Edit Delete	U-02	Ram	+9779876543210	ram@gmail.com	R-02
Edit Delete	U-03	Shyam	+9779812345678	shyam@gmail.com	R-02
Edit Delete	U-04	Hari	+9779823456789	hari@gmail.com	R-03
Edit Delete	U-05	Gita	+9779834567890	gita@gmail.com	R-04
Edit Delete	U-06	Oshima	+9779859697989	rahul@gmail.com	R-04

Figure 68: After Updating the UserDetails data

ii. ProjectDetails Page:

Before Updating the ProjectDetails Data:

	PROJECTID	PROJECTNAME	PROJECTSTARTDATE	PROJECTDUEDATE	STATUS	USERID
Edit Delete	P-01	Enrolment System	1/1/2024 12:00:00 AM	10/20/2024 12:00:00 AM	Ongoing	U-01
Edit Delete	P-02	Attendance System	3/1/2024 12:00:00 AM	12/12/2024 12:00:00 AM	Ongoing	U-02
Edit Delete	P-03	Library Management	5/1/2024 12:00:00 AM	11/30/2024 12:00:00 AM	Ongoing	U-03
Edit Delete	P-04	Student Portal	7/1/2024 12:00:00 AM	9/20/2024 12:00:00 AM	Completed	U-04
Edit Delete	P-05	Examination System	2/15/2024 12:00:00 AM	8/10/2024 12:00:00 AM	Ongoing	U-05
Edit Delete	P-06	Customer Relationship Management	4/1/2024 12:00:00 AM	12/31/2024 12:00:00 AM	Planned	U-06

Figure 69: Before Updating the ProjectDetails Data:

Editing the ProjectDetails Data:

Update Cancel	P-06	<input type="text" value="Management"/>	<input type="text" value="4/1/2024 12:00:00 AM"/>	<input type="text" value="12/31/2024 12:00:00 AM"/>	<input type="text" value="Planned"/>	<input type="text" value="U-06"/>
---	----------------------	---	---	---	--------------------------------------	-----------------------------------

Figure 70: Editing the ProjectDetails Data

After Updating the Projectdetails:

	PROJECTID	PROJECTNAME	PROJECTSTARTDATE	PROJECTDUEDATE	STATUS	USERID
Edit Delete	P-01	Enrolment System	1/1/2024 12:00:00 AM	10/20/2024 12:00:00 AM	Ongoing	U-01
Edit Delete	P-02	Attendance System	3/1/2024 12:00:00 AM	12/12/2024 12:00:00 AM	Ongoing	U-02
Edit Delete	P-03	Library Management	5/1/2024 12:00:00 AM	11/30/2024 12:00:00 AM	Ongoing	U-03
Edit Delete	P-04	Student Portal	7/1/2024 12:00:00 AM	9/20/2024 12:00:00 AM	Completed	U-04
Edit Delete	P-05	Examination System	2/15/2024 12:00:00 AM	8/10/2024 12:00:00 AM	Ongoing	U-05
Edit Delete	P-06	Management	4/1/2024 12:00:00 AM	12/31/2024 12:00:00 AM	Planned	U-06

Figure 71: After Updating the Projectdetails:

iii. TaskDetails page:

Before Updating the TaskDetails:

	TASKID	TASKNAME	TASKSTARTDATE	TASKDUEDATE	STATUS	PROJECTID
Edit Delete	T-01	Student Registration	1/1/2024 12:00:00 AM	2/20/2024 12:00:00 AM	Completed	P-01
Edit Delete	T-02	Student Counselling Form	1/5/2024 12:00:00 AM	6/15/2024 12:00:00 AM	Ongoing	P-01
Edit Delete	T-03	Biometric Registration	3/10/2024 12:00:00 AM	3/20/2024 12:00:00 AM	Completed	P-02
Edit Delete	T-04	Design User Interface	4/1/2024 12:00:00 AM	6/1/2024 12:00:00 AM	Ongoing	P-03
Edit Delete	T-05	User Authentication	5/1/2024 12:00:00 AM	8/1/2024 12:00:00 AM	Ongoing	P-04
Edit Delete	T-06	System Testing	6/1/2024 12:00:00 AM	6/15/2024 12:00:00 AM	Planned	P-01

Figure 72: Before Updating the TaskDetails

Editing the TaskDetails:

Update Cancel T-06	<input type="text" value="Testing"/>	<input type="text" value="6/1/2024 12:00:00 AM"/>	<input type="text" value="6/15/2024 12:00:00 AM"/>	<input type="text" value="Planned"/>	<input type="text" value="P-01"/>
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Figure 73: Editing the TaskDetails

After Updating the taskDetails:

	TASKID	TASKNAME	TASKSTARTDATE	TASKDUEDATE	STATUS	PROJECTID
Edit Delete	T-01	Student Registration	1/1/2024 12:00:00 AM	2/20/2024 12:00:00 AM	Completed	P-01
Edit Delete	T-02	Student Counselling Form	1/5/2024 12:00:00 AM	6/15/2024 12:00:00 AM	Ongoing	P-01
Edit Delete	T-03	Biometric Registration	3/10/2024 12:00:00 AM	3/20/2024 12:00:00 AM	Completed	P-02
Edit Delete	T-04	Design User Interface	4/1/2024 12:00:00 AM	6/1/2024 12:00:00 AM	Ongoing	P-03
Edit Delete	T-05	User Authentication	5/1/2024 12:00:00 AM	8/1/2024 12:00:00 AM	Ongoing	P-04
Edit Delete	T-06	Testing	6/1/2024 12:00:00 AM	6/15/2024 12:00:00 AM	Planned	P-01

Figure 74: After Updating the taskDetails

iv. SubTaskDetails Page:

Before Updating the subtaskdetails page:

	SUBTASKID	SUBTASKNAME	STATUS	TASKID
Edit Delete	S-01	Create Registration Form	Completed	T-01
Edit Delete	S-02	Design Counselling Form	Ongoing	T-02
Edit Delete	S-03	Biometric System Setup	Completed	T-03
Edit Delete	S-04	Develop Interface Prototype	Ongoing	T-04
Edit Delete	S-05	Implement Login Mechanism	Ongoing	T-05
Edit Delete	S-06	Testing Form Validation	Planned	T-02

Figure 75: Before Updating the subtaskdetails

Editing the SubtaskDetails:

Update Cancel	S-06	<input type="text" value="Validation"/>	<input type="text" value="Planned"/>	<input type="text" value="T-02"/>
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Figure 76: Editing the SubtaskDetails

After Updating the SubtaskDetails Data:

	SUBTASKID	SUBTASKNAME	STATUS	TASKID
Edit Delete	S-01	Create Registration Form	Completed	T-01
Edit Delete	S-02	Design Counselling Form	Ongoing	T-02
Edit Delete	S-03	Biometric System Setup	Completed	T-03
Edit Delete	S-04	Develop Interface Prototype	Ongoing	T-04
Edit Delete	S-05	Implement Login Mechanism	Ongoing	T-05
Edit Delete	S-06	Validation	Planned	T-02

Figure 77: After Updating the SubtaskDetails Data

6.3 Deleting the Data

I. ProjectDetails Page:

Before Deleting the data:

	PROJECTID	PROJECTNAME	PROJECTSTARTDATE	PROJECTDUE DATE	STATUS	USERID
Edit Delete	P-01	Enrolment System	1/1/2024 12:00:00 AM	10/20/2024 12:00:00 AM	Ongoing	U-01
Edit Delete	P-02	Attendance System	3/1/2024 12:00:00 AM	12/12/2024 12:00:00 AM	Ongoing	U-02
Edit Delete	P-03	Library Management	5/1/2024 12:00:00 AM	11/30/2024 12:00:00 AM	Ongoing	U-03
Edit Delete	P-04	Student Portal	7/1/2024 12:00:00 AM	9/20/2024 12:00:00 AM	Completed	U-04
Edit Delete	P-05	Examination System	2/15/2024 12:00:00 AM	8/10/2024 12:00:00 AM	Ongoing	U-05
Edit Delete	P-06	Customer Relationship Management	4/1/2024 12:00:00 AM	12/31/2024 12:00:00 AM	Planned	U-06

Figure 78: Before Deleting the data:

After Deleting the data:

	PROJECTID	PROJECTNAME	PROJECTSTARTDATE	PROJECTDUE DATE	STATUS	USERID
Edit Delete	P-01	Enrolment System	1/1/2024 12:00:00 AM	10/20/2024 12:00:00 AM	Ongoing	U-01
Edit Delete	P-02	Attendance System	3/1/2024 12:00:00 AM	12/12/2024 12:00:00 AM	Ongoing	U-02
Edit Delete	P-03	Library Management	5/1/2024 12:00:00 AM	11/30/2024 12:00:00 AM	Ongoing	U-03
Edit Delete	P-04	Student Portal	7/1/2024 12:00:00 AM	9/20/2024 12:00:00 AM	Completed	U-04
Edit Delete	P-05	Examination System	2/15/2024 12:00:00 AM	8/10/2024 12:00:00 AM	Ongoing	U-05

Figure 79: After Deleting the data

II. TaskDetails Page:

Before deleting the data:

	TASKID	TASKNAME	TASKSTARTDATE	TASKDUEDATE	STATUS	PROJECTID
Edit Delete	T-01	Student Registration	1/1/2024 12:00:00 AM	2/20/2024 12:00:00 AM	Completed	P-01
Edit Delete	T-02	Student Counselling Form	1/5/2024 12:00:00 AM	6/15/2024 12:00:00 AM	Ongoing	P-01
Edit Delete	T-03	Biometric Registration	3/10/2024 12:00:00 AM	3/20/2024 12:00:00 AM	Completed	P-02
Edit Delete	T-04	Design User Interface	4/1/2024 12:00:00 AM	6/1/2024 12:00:00 AM	Ongoing	P-03
Edit Delete	T-05	User Authentication	5/1/2024 12:00:00 AM	8/1/2024 12:00:00 AM	Ongoing	P-04
Edit Delete	T-06	Testing	6/1/2024 12:00:00 AM	6/15/2024 12:00:00 AM	Planned	P-01

Figure 80: Before deleting the task data

After deleting the task data:

	TASKID	TASKNAME	TASKSTARTDATE	TASKDUEDATE	STATUS	PROJECTID
Edit Delete	T-01	Student Registration	1/1/2024 12:00:00 AM	2/20/2024 12:00:00 AM	Completed	P-01
Edit Delete	T-02	Student Counselling Form	1/5/2024 12:00:00 AM	6/15/2024 12:00:00 AM	Ongoing	P-01
Edit Delete	T-03	Biometric Registration	3/10/2024 12:00:00 AM	3/20/2024 12:00:00 AM	Completed	P-02
Edit Delete	T-04	Design User Interface	4/1/2024 12:00:00 AM	6/1/2024 12:00:00 AM	Ongoing	P-03
Edit Delete	T-05	User Authentication	5/1/2024 12:00:00 AM	8/1/2024 12:00:00 AM	Ongoing	P-04

Figure 81: After deleting the task data

III. SubTaskDetails Page:

Before Deleting the subtask data:

	SUBTASKID	SUBTASKNAME	STATUS	TASKID
Edit Delete	S-01	Create Registration Form	Completed	T-01
Edit Delete	S-02	Design Counselling Form	Ongoing	T-02
Edit Delete	S-03	Biometric System Setup	Completed	T-03
Edit Delete	S-04	Develop Interface Prototype	Ongoing	T-04
Edit Delete	S-05	Implement Login Mechanism	Ongoing	T-05
Edit Delete	S-06	Validation	Planned	T-02

Figure 82: Before Deleting the subtask data:

After Deleting the subtask data:

	SUBTASKID	SUBTASKNAME	STATUS	TASKID
Edit Delete	S-01	Create Registration Form	Completed	T-01
Edit Delete	S-02	Design Counselling Form	Ongoing	T-02
Edit Delete	S-03	Biometric System Setup	Completed	T-03
Edit Delete	S-04	Develop Interface Prototype	Ongoing	T-04
Edit Delete	S-05	Implement Login Mechanism	Ongoing	T-05

Figure 83: Before Deleting the subtask data:

6.4 UserProject Page:

Selecting user_id from dropdown:

[Home](#) [User Details](#) [Project Details](#) [Task Details](#) [Subtask Details](#) [Milestone Details](#) [User Project](#) [Project Milestone](#) [Top Performer](#)

User Projects

Select User U-01

U-01

U-02

U-03

U-04

U-05

U-06

User Details

USERID	USERNAME	USERCONTACT	USEREMAIL	ROLEID
U-01	San	+9779859697989	smith@gmail.com	R-01

Projects

USERID	PROJECTID	TASKID	SHIFT
U-01	P-01	T-01	Morning

Figure 84: Selecting user_id from dropdown

Result of the userid

[Home](#) [User Details](#) [Project Details](#) [Task Details](#) [Subtask Details](#) [Milestone Details](#) [User Project](#) [Project Milestone](#) [Top Performer](#)

User Projects

Select User U-04

U-01

U-02

U-03

U-04

U-05

U-06

User Details

USERID	USERNAME	USERCONTACT	USEREMAIL	ROLEID
U-04	Hari	+9779823456789	hari@gmail.com	R-03

Projects

USERID	PROJECTID	TASKID	SHIFT
U-04	P-04	T-04	Night

6.5 ProjectMilestone Page:

Selecting project_id from dropdown:

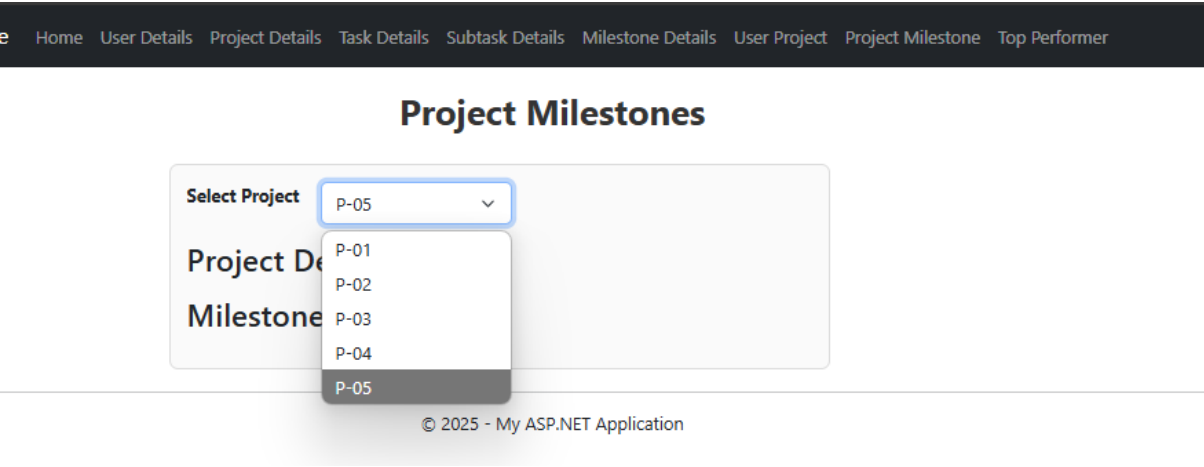
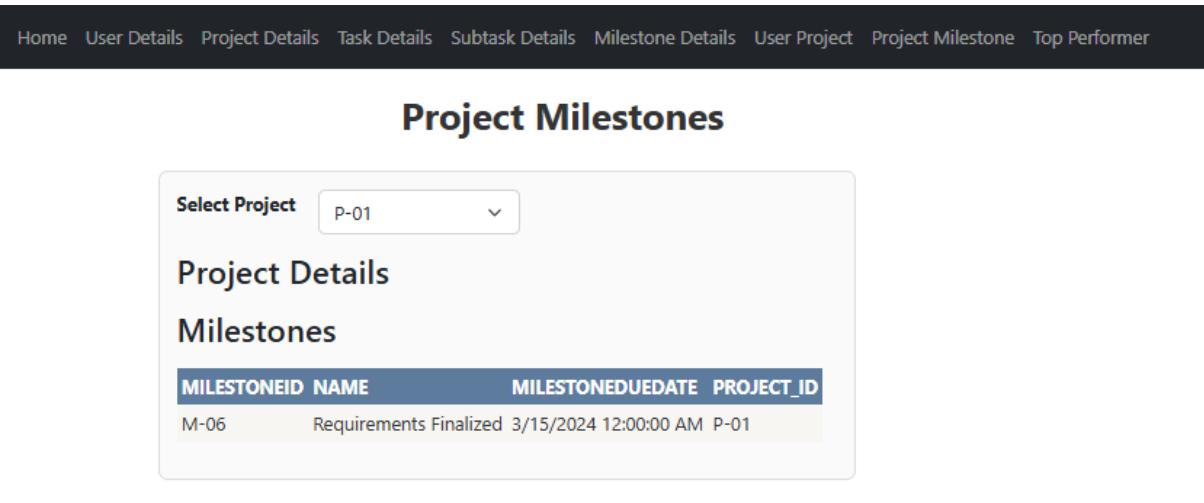


Figure 85: Selecting project_id

Result of the project id:



References

Kitthu, H. A., 2024. *Normalization in DBMS: A Detailed Guide*. [Online] Available at: <https://www.simplilearn.com/tutorials/sql-tutorial/what-is-normalization-in-sql>
[Accessed 2 January 2024].