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Introduction

This is a web-based project management system which aalows users to manage projects. Assign tasks, tracking of milestones, and improve communication among the team members using ASP.Net with C# for the web interface and Oracle SQL Developer for database management. In this particular system users can be a part of multiple project and each of the project consists of tasks and the tasks also consists multiple subtasks. Users can comment. Project needs it's resources and tasks also contains milestones. First, this project has to make initial erd of the overall project. Then normalization is done and final er-diagram is drawn. Final erd is drawn in data modeler and select, insert is done oracle sql developer. Then implementation of web-based database application is done using Asp.Net with C#. The project should include webforms which include basic webfroms and complex webforms.

This project focuses on solving many problems like difficulties of assigning and tracking tasks. Here, a user can be assigned with many tasks and there will be other users as well that is assigned with a single task. To have a proper communication and to get proper feedback there is option of comment in this project. This project will help in improve team collaboration, ensure of smooth project implementation, and maintain project-related data.

Aims and Objectives

AIM

The main aim of this project is to develop a user-friendly and a affective management system that will help our LS Corporation to track project progress, manage milestones, assign tasks and sub-tasks, and have proper communication through comments.

Objective

To manage users and allow enable users to be a part of multiple projects and tasks.

Allows users to add, edit, delete users, projects, tasks, milestones, subtasks, and resources.

Helps in allowing having different resources assigned to them.

Store and manage all the data using Oracle SQL Developer.

Test all features of the project.

Textual Analysis

User and Project

Figure 1 Textual Analysis of User and project

Description: Many user can be assigned with one or many projects.

Project and task

Figure 2 Textual Analysis of Project and task

Description: One project can have many or one tasks.

Project and Milestone

Figure 3 Textual analysis of project and milestone

Description: One project can contain many or one milestone.

Task and SubTask

Figure 4 Textual analysis of Task and SubTask

Description: One task can have many subtasks or one subtask and subtask should have a task.

Task and Comment

2 Figure 5 Textual Analysis of Task and Comment

Description: One task containing multiple comments and comments should have one task.

Task and resource

2 Figure 6 Textual analysis of Task and resource

Description: One task requires one or multiple resources and resources should have a task.

User and comment

Figure 7 Textual analysis of User and comment

Description: One user can comment one or multiple comments.

ER-Diagram

Figure 8 Initial ER-Diagram

3. Normalization

Normalization divides the larger table into smaller and links them using relationships.

Here is the normalization of the scenario given:

3NF

There should be removal of transitive dependencies.

For the Project Table:

Project_id à Project_name à X

Project_id à Project_StartDate à X

Project_id à Project_DueDate à X

Project_id à Project_Status à X

For the ProjectUser Table:

This ProjectUser table is used as bridge table. This table associates each user with a project, representing a unique combination of user and project. The ProjectUser table have no non-key values so, there is no transitive dependencies.

For Task Table:

Task_id à Task_name à X

Task_id à Task_StartDate à X

Task_id à Task_DueDate à X

Task_id à Task_Status à X

For TaskProjectUser Table:

This TaskProjectUser table is used as bridge table. This table associates each user with a project and with different tasks in the project, representing a unique combination of user project, and task. The TaskProjectUser table have no non-key values so, there is no transitive dependencies.

So, here are the final tables after 3NF

Final Tables:

Project (Project_id, Project_name, Project_StartDate, Project_DueDate, Project_Status

ProjectUser (User_ID*, Project_id*)

e. Each and every project includes milestone and resources.

f. Users can comment one or multiple comments.

5. Final ERD

This is the creation of final Er-diagram.

6. Data Dictionary

User table

Column Name

Data Type

Constraints

Description

User_Id

INT

Primary Key

Unique identifier for each users.

User_name

VARCHAR

NOT NULL

Name of the particular user.

User_email

Varchar

Not Null

Email address of users.

Table 1 User table

Project table

Column Name

Data Type

Constraints

Description

Project_iD

INT

Primary Key

Unique identifier for each project.

Project_name

VARCHAR

NOT NULL

Name of the particular project.

ProjectDue_Date

DATE

NOT NULL

Deadline given for the project.

ProjectEnd_Date

DATE

NOT NULL

14 Actual completion date of the project.

Table 2 Project Table

1 Tasks table

Column Name

Data Type	
Constraints	
Description	
Task_id	
INT	
Primary Key	
Unique identifier for each task.	
Task_name	
VARCHAR	
NOT NULL	
Name of the particular task.	
Task_duedate	
DATE	
NOT NULL	
Deadline given for the task.	
Task_enddate	
DATE	
NOT NULL	
Actual completion date of the task.	

Table 3 Tasks table

1 SubTasks table

Column Name

Data Type

Constraints

Description

SubTask_id

INT

Primary Key

Unique identifier for each subtask.

SubTask_name

VARCHAR

NOT NULL

Name of the particular subtask.

Task_id

INT

FOREIGN KEY

Helps in linking subtask to a specific task.

Table 4 Sub-tasks

1 Milestone table

Column Name

Data Type

Constraints

Description

Milestone_id

INT

Primary Key

Unique identifier for each Milestone.

Milestone_name

VARCHAR

NOT NULL

Name of the particular Milestone.

Milestone_duedate

DATE

NOT NULL

9 Deu dat given for the milestone.

Project_id

INT

FOREIGN KEY

Helps in linking project and milestone.

Table 5 Milestone table

7. Data Creation

Table Creation of All the tables:

8. Insertion of data

Here, is insertion of value of all the tables.

9. User Manual

Users

It is the user table. User table includes all the buttons needed.

Here, we added or inserted a user.

Here, new user added.

Here, user name is edit.

Here, user name is updated.

Here, user mayur is deleted.

Project

This is the project table.

Here, new project is added.

Here, book management project is edited to book service management .

Here, book management is deleted.

Here, new task is inserted.

New task, ask17 is already added.

Here, task id 16 is updated to mine tasks.

Task id 16 is deleted.

Sub Tasks

Sub tasks mini-party is being added.

Here, mini-party is added.

A column has been added. Post-deployment testing is updated to deployment testing.

Here, sub-tasks deployment testing is delete.

Milestone

New milestone is being added.

New milestone is already added.

Here, milestone id 224 is edit and updated to a lot to do.

Here, A lot to do is delete.

UserProject

Top Users

10. Testing

9.1 Testing of Basic form

Test-1 Testing of Insert or add of a column in all basic form.

Objective

To test the addition of new columns in the form.

Actions

Firstly, add button was clicked the required filed was filled and then clicking the insert button and new column was added.

Expected outcomes

The new column should be added.

Actual Results

New column was added in the basic.

Conclusions

New column was added successfully.

Table 6 Add or insertion

Here, new user is added.

Here, new project is added.

Here, new task task17 is added.

Here, new sub tasks is added.

Here, new milestone is added.

Test-2 Testing of edit of a column in all basic form.

Objective

To test the edit of columns in the form.

Actions

Firstly, click edit button the required filed was filled and then clicking the update button and now column is edited.

Expected outcomes

Column should be edited successfully.

Actual Results

Column was edited in the basic form.

Conclusions

Column was edited successfully.

Table 7 Edit of the column

Here, edit is successful in user table.

Here, project is successfully edited.

Sub tasks successfully edited.

Here, milestone is edited.

Test-3 Testing of delete of a column in all basic form.

Objective

To test the delete of column in the form.

Actions

Firstly, click delete button the column which is meant to be delete is deleted.

Expected outcomes

Column should be deleted successfully.

Actual Results

Column was deleted in the basic form.

Conclusions

Column was edited successfully.

Table 8 Delete of column

A column with user id 16 is delete.

A column with project id 116 is deleted.

Task id 16 is deleted.

Sub task with sub task id 2030 is deleted.

Here, milestone id 224 is deleted.

9.2. Testing of Complex Form.

Test-1 Testing of Top 3 Performer.

Objective

To test the top 3 performers will show or not.

Actions

Connecting User, project, and task table and finding top 3 performers from there.

Expected outcomes

Top 3 performers should be shown.

Actual Results

The actual results meet the expected outcomes.

Conclusions

Top 3 performer was shown successfully.

Table 9 Top 3 performer.

Here, top 3 performer was shown successfully.

Test-2 Testing of User Project.

Objective

To test the project related to a particular user.

Actions

Selecting users from dropdown.

Expected outcomes

A particular user should be involved in the projects.

Actual Results

Users are involved in different projects.

Conclusions

A particular user is involved in the projects.

Test-2 Testing of Project Milestone.

Objective

To test the Milestone of a project.

Actions

Selecting projects from dropdown.

Expected outcomes

A particular project with it’s milestones should be displayed.

Actual Results

Project with milestone is displayed.

Conclusions

Project with milestone was displayed successfully.

Table 10 Project milestone

11. Further Discussion

Here, we have build the project management system and now let’s talk about the tools and technologies that have been used and which helped in building this project in a good manner.

11.1. Tools and Technologies

The tools and technologies that helped in creating this project are:

Oracle Sql developer: For the database management, creation, insertion of all the tables.

Data Modeler: For the final er-diagram.

Visual Studio: For the system or web form development.

Word: For the purpose of documentation.

12. Conclusion

This particular project was designed to solve LS Corporation issue of managing multiple projects in a system. The system allows users to be part of multiple projects, manage tasks and subtasks, track milestones, and communicate easily through comments.

11 By using Oracle for data storage and ASP.NET with C# for backend development, we were able to create a structured and efficient solution. The system also ensures smooth task assignments and improves project tracking, which will help the company work more efficiently.

Overall, the project successfully meets its goal of improving project management by making it easier to track progress, assign tasks, and improve communication among team members.