Task Manager- Project Management Tool

Design and build the application to manage projects tasks online.

The TaskManager application should support the following features:

1. Application should manage the user creation and role management.
2. There will be four user roles like site admin, project manager, developer and QA.
3. Site Admin can create new Project and assign project manager.
4. Project manager can assign developers and QAs to the project.
5. Project manager can create a Task. Task can be a Bug or New Feature.
6. Task can be assigned to a Developer.
7. Task can be in different status like: Open, Development, QA and closed.
8. Manager can list all the Tasks and manage the tasks.
9. Developer can view his own Tasks and add comments and assign to QA.
10. QA can test the Bug/Feature and close or add his comments and reopen the same.

Data Model: DBNAme: MTMDB

Tables:

1. Users
   1. UserID PK NOT NULL IDENTITY(1,1)
   2. Name
   3. Dept
   4. RoleId INT NOT NULL
2. Projects
   1. ProjID PK NOT NULL IDENTITY(1,1)
   2. Titile
   3. Status
3. Project Team
   1. TeamId
   2. UserId
   3. ProjId
4. Tasks
   1. TaskId PK NOT NULL IDENTITY(1,1)
   2. Title
   3. Type
   4. AssigneTo
   5. ProjId
5. Comments
   1. CommentId PK NOT NULL IDENTITY(1,1)
   2. Title
   3. CommentText
   4. TaskID
   5. CommentedBy

**UI Actions**

Super Admin Actions:

1. View Users
2. Add User (with Role)
3. Delete User
4. Add New Project
   1. Assign project to PM

Project Manager Actions:

1. View Own projects
2. View Project members
3. Assign Developers and QA to his own project
4. Remove Project member
5. Create task and assign to Dev/QA
6. View All Tasks with Status

QA Actions:

1. View Tasks assigned to him/her
2. Add comment on Task
3. Close the task
4. Reopen the Task and assign to DEV
5. Update the Task status

Developer Actions:

1. View Tasks assigned to him/her
2. Add comment on Task
3. Resolve the Task and assign to QA
4. Update the Task status

Additional Info on Task

Set 1:

1. Application should able to create and maintain a group of tasks for the project.
2. The task information should be collected from user (Project Manager Role)
3. Application should able to print task details when required

Set 2:

1. Task will have the start date, end date and hours logged as its attributes along with other attributes
2. Task can be a Bug, Enhancement, New Feature or a project discussion.

Set 3:

1. Application should provide a functionality to enter time sheet for the task and bill the client for the task.
2. We can bill the client for Bug, Enhancement and New Feature for not for project discussion.

Set 4:

1. Task can be Timelogged, can be billed and can defer. Bug cannot be deferred whereas New Feature can.

Set 5:

1. Task billing can happen based on specific currency. But bill processing should happen only in INR.