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Task Tracker Application Documentation

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**Overview**

The Task Tracker application is designed to help teams manage projects and tasks efficiently. It includes features for project management, task management, user management, role-based access control, and SSO-enabled authentication.

**Features**

**Project Management**

* **Create Project**: Allows users to create new projects by providing details such as project name, description, start date, and end date.
* **Update Project**: Enables users to update existing project details.
* **Delete Project**: Permits users to delete projects, removing all associated tasks.

**Task Management**

* **Create Task**: Users can create new tasks within a project by specifying the task description, due date, status, owner, and associated project.
* **Update Task**: Users can update task details.
* **Delete Task**: Users can delete tasks that are no longer needed.
* **Task Attributes**:
  + **Description**: A brief summary of the task.
  + **Due Date**: The deadline for task completion.
  + **Status**: Current state of the task.
  + **Owner**: The user responsible for the task.
  + **Project**: The project to which the task belongs.

**User Management**

* **Create User**: Admins can add new users to the system by providing user details such as name, email, and role.
* **Update User**: Admins can update user details including name, email, and role.
* **Delete User**: Admins can remove users from the system.

**Task Assignment**

* **Assign Task to User**: Allows tasks to be assigned to specific users, ensuring accountability and clear responsibility.

**Authentication**

* **SSO Enabled Authentication**: Supports Single Sign-On (SSO) for secure and seamless user authentication, integrating with your organization's identity provider.

**Role Management**

* **Manage Roles**: Admins can create and manage roles, defining permissions for each role.
* **Assign Users to Roles**: Admins can assign users to specific roles based on their responsibilities.
* **Roles**:
  + **Admin**: Full access to all features and settings.
  + **Task Creator**: Can create, update, and delete tasks.
  + **Read-Only User**: Can view tasks and mark them as complete.

**Usage**

**Creating a Project**

1. **Navigate to the Projects Section**: Access the Projects section from the main menu.
2. **Create a New Project**: Click on "Create Project" and fill in the project details such as name, description, start date, and end date.
3. **Save the Project**: Click "Save" to create the project.

**Managing Tasks**

1. **Access the Tasks Section**: Navigate to the Tasks section within a specific project.
2. **Create a New Task**: Click on "Create Task" and enter the task details including description, due date, status, owner, and project.
3. **Update or Delete Tasks**: Select a task to update its details or delete it if no longer needed.

**Assigning Tasks**

1. **Open the Task**: Select the task you want to assign.
2. **Assign to User**: Choose the user from the "Owner" dropdown menu and save the changes.

**Managing Users**

1. **Navigate to User Management**: Access the User Management section from the main menu.
2. **Add, Update, or Delete Users**: Use the provided options to manage user details and roles.

**Role Management**

1. **Go to the Roles Section**: Access the Roles section from the main menu.
2. **Create or Update Roles**: Define new roles or update existing ones with specific permissions.
3. **Assign Users to Roles**: Assign users to roles based on their responsibilities.

**Flow-chart of Task Tracker Application**

SSO authentication

Role Check

Admin

Task Creator

User dashboard

User

Admin dashboard

Task creator dashboard

View All Project details

View Project Details

Create Project

View Project Details

Create Task

Update Project

Delete Project

Assign User and their roles

Update Status of Task to completed

View Task Details

Update Status of Task

View Task Details

Update Status of Task

Create Task