Omega

Tran Ngoc Tuan C4b

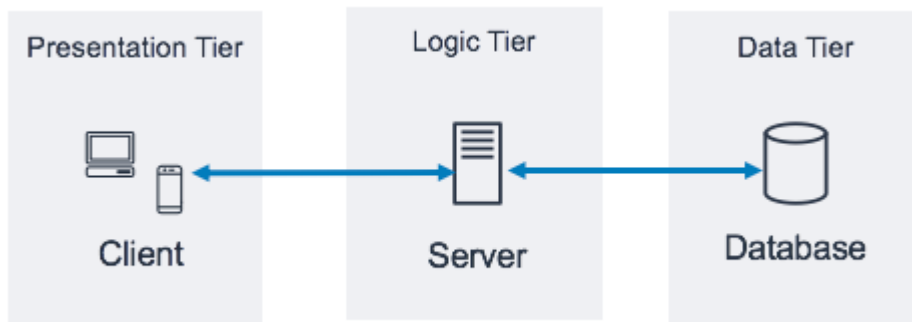# Content

Program Description

Task Management System is a program through which your employer will assign tasks.

Architecture

The program is built on a Three Tier architecture that work together for proper functionality

of the program.

Design Patterns

The program also has other design patters such as:

- Singleton to connect to a database server
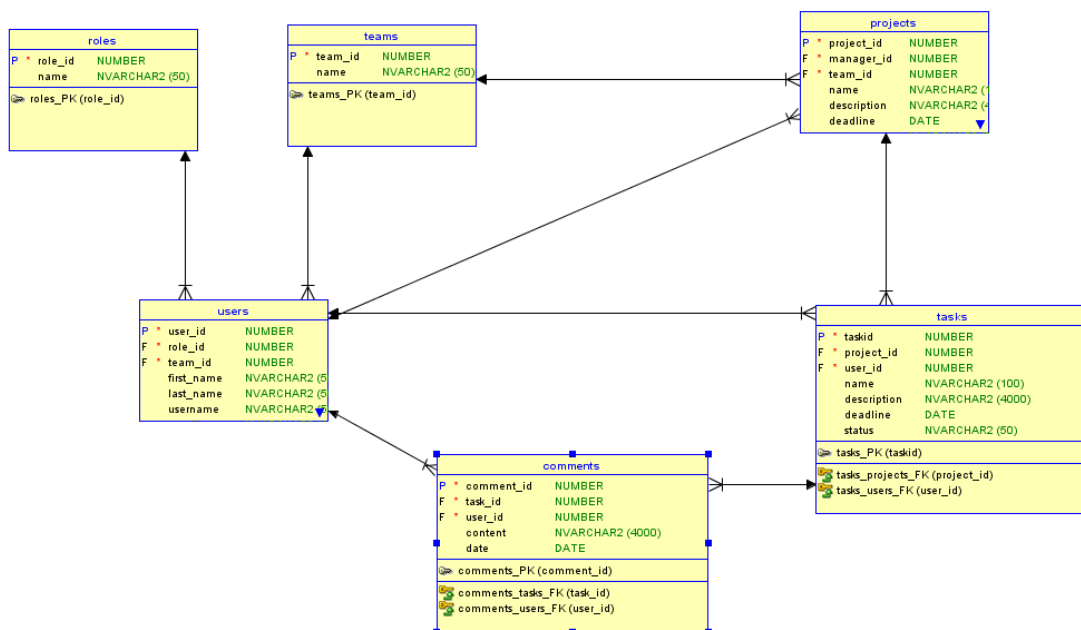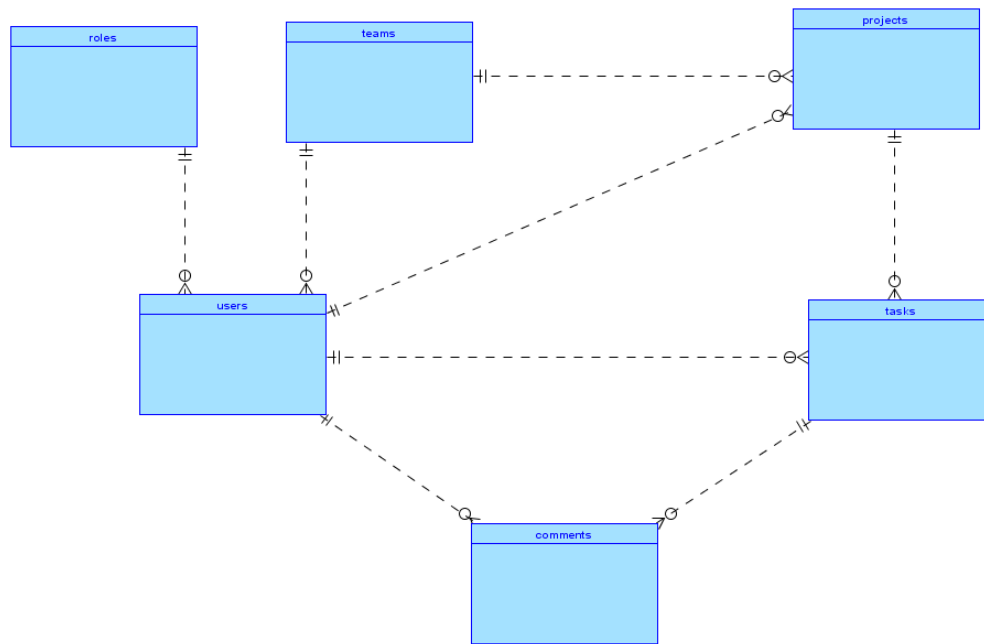
System requirements

The program requires the following:

- Windows
- .net core 6
- MSSQL Database Server

Database

Database has following tables:

- Users
- Roles
- Teams
- Projects
- Comments
- Tasks

roles

P	* role_id	NUMBER
	name	NVARCHAR2 (50)
🔑 roles_PK (role_id)		

teams

P	* team_id	NUMBER
	name	NVARCHAR2 (50)
🔑 teams_PK (team_id)		

projects

P	* project_id	NUMBER
F	* manager_id	NUMBER
F	* team_id	NUMBER
	name	NVARCHAR2 (
	description	NVARCHAR2 (
	deadline	DATE

users

P	* user_id	NUMBER
F	* role_id	NUMBER
F	* team_id	NUMBER
	first_name	NVARCHAR2 (5
	last_name	NVARCHAR2 (5
	username	NVARCHAR2

tasks

P	* taskid	NUMBER
F	* project_id	NUMBER
F	* user_id	NUMBER
	name	NVARCHAR2 (100)
	description	NVARCHAR2 (4000)
	deadline	DATE
	status	NVARCHAR2 (50)
🔑 tasks_PK (taskid)		
🗝 tasks_projects_FK (project_id)		
🗝 tasks_users_FK (user_id)		

comments

P	* comment_id	NUMBER
F	* task_id	NUMBER
F	* user_id	NUMBER
	content	NVARCHAR2 (4000)
	date	DATE
🔑 comments_PK (comment_id)		
🗝 comments_tasks_FK (task_id)		
🗝 comments_users_FK (user_id)		

Program Usage

After a successful log in the program has a menu on the left side.

Dashboard

Welcome John

- Dashboard
- Projects
- Fineshed Tasks
- Employees

- Settings
- Log Out

		Name	Description	Deadline	Status
▶	Complete	doe	task tes3t	20.05.2023	not done
	Complete	doe	task tes3t	20.05.2023	not done

Add Task

Refresh