

# **ABSTRACT**

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To increase an efficiency of a product, nowadays many web development companies are using different project management systems. A company may run a number of projects at a time, and requires input from a number of individuals, or teams for a multi level development plan, whereby a good project management system is needed.

Project management systems represent a rapidly growing technology in IT industry. As the number of users, who utilize project management applications continues to grow, web based project management systems enter a critical role in a multitude of companies. Thus, a proper project management system plays a distinctive part in ensuring reliable, robust and high quality web applications for customers. Developing a web based project management system and showing how, in turns, it helps users to handle projects. These processes in everyday's working life, is the scope of the thesis. The reliability and robustness of a web based project management system has also been set as the structure of the current thesis. Finally, a web based project management system has been developed, which highly meets the standards and requirements set by the company.

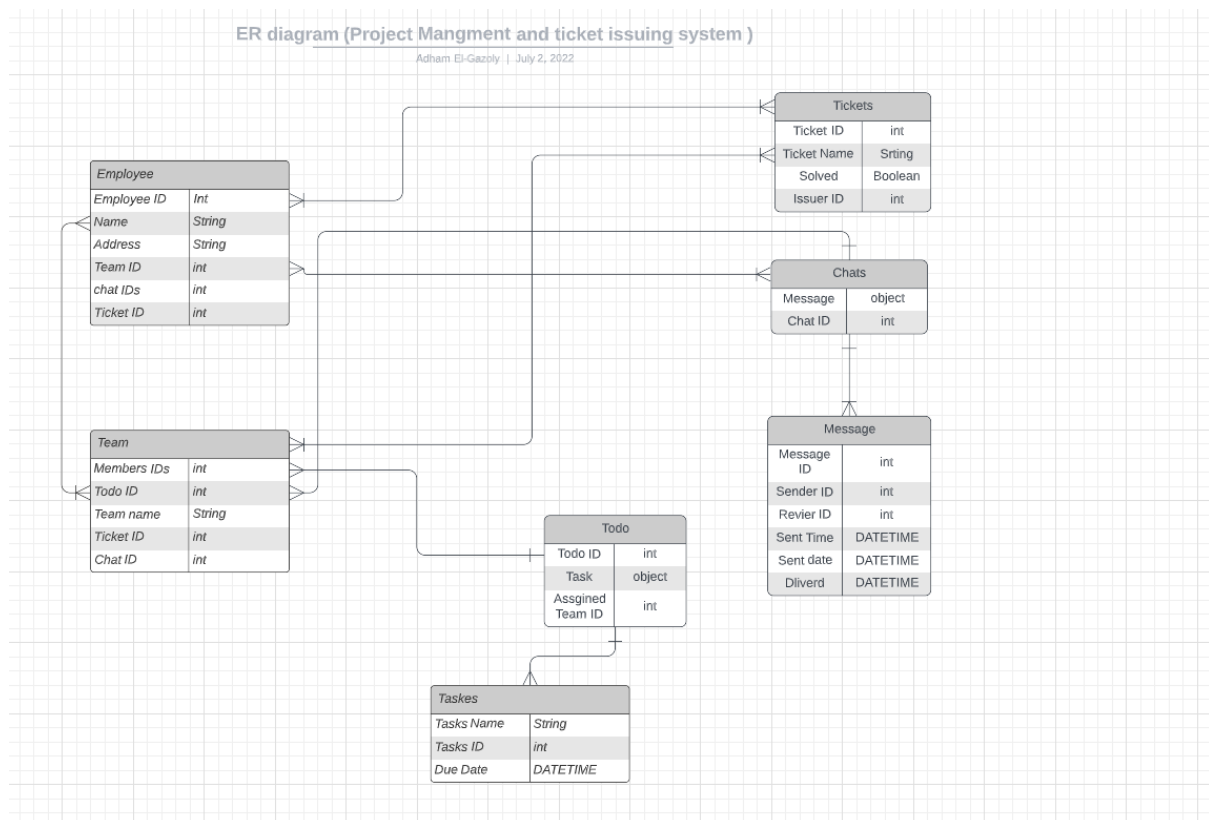
## **INTRODUCTION**

Web based project management systems are designed to manage and store project information that are used in web-based applications. By different groups of people such as, seals department, programmers or project managers will be let by project applications a controlled access to information and automated distribution of information.

The objective for collaboration has been: getting thing done faster, cheaper and better by applying their common knowledge, bringing together a selection of resources and attainments in a project. Because valid collaboration with teams improves productivity, speeds up result-making and optimizes of making a right decisions, it also helps to intercept precious intellectual fortune and time. Webbased project management system can surprisingly increase performance,

productivity and efficiency within an organization. Since web-based applications can be accessed through any web browser, no desktop installation or updates are required. Moreover, developers, who write great code while staying out of the way are able to use it along the distance, while they stay in geographically different place and collaboration between team still exists.

## ER diagram



## What is an ER diagram ?

An entity relationship diagram (ERD), also known as an entity relationship model, is a graphical representation that depicts relationships among people, objects, places, concepts or events within an information technology (IT) system.

In the next few lines i will try to explain the whole diagram

#### 1- Employee - Team

The relation between the two is many to one or may as the employee may join couple of different teams like if the corporate was working with agile SWE and the team have many employees cause there is no team with only one employee

#### 2- Employee - Ticket

The relation is one or many to one or may as the employee may have only one issue or multiple issues and the ticket may belong to one employee or the same issue may occur to couple of different employees

#### 3- Employee - chat

The relation is one or many to many because the employee may have one or more chats and the chat belong to two people atleast

#### 4- Team - Ticket

The relation is one or many to one or may as the employee may have only one issue or multiple issues and the ticket may belong to one employee or the same issue may occur to couple of different employees

#### 5- Team - Chats

The relation is many to one as every team has only one chat but there is many chat as many teams have their own chat

#### 6- Todo - Tasks

The relation is one to one or many as the todo list may have one or more tasks but the tasks belong to one todo list

#### 8- chat - messages

The relation is one to one or many as every chat may have one or more message but the messages belong to only one chat

**Technologies used for this system :**

1. HTML
2. CSS
3. React.js
4. Node.js
5. MongoDB

**CONCLUSION**

To conclude, web based project management system is one fully functioning system that corresponds to the companies needs and helps to produce a good quality web application projects its a way to improve company"s everyday use and to increase performance, productivity and efficiency.