DATABASE DESIGN OF PROJECT

Project Name: Project Management System

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Introduction

A database is an organized collection of structured information, or data, typically stored electronically in a computer system. A database is usually controlled by a database management system (DBMS). Together, the data and the DBMS, along with the applications that are associated with them, are referred to as a database system, often shortened to just database. The introduction of the Database Design provides an overview of the entire Design of the database with purpose and its requirements. The aim of this document is to gather and analyze and give an in-depth insight into the complete Project Management System's database design.

Purpose

The purpose of the document is to collect and analyze all assorted ideas that have come up to define the database design. This document describes the project's database and its table structure. It defines how a database improves the functionality of a system by storing data in the proper manner.

Requirement

To store the users data in a proper manner. By storing data in the database system it can be able to handle some activities like login and signup which are related to that user. Once user login or signup in the system the system should display user's content for that project in a particular section for that purpose also we require a database. Whether the data will be accessed and edited by one or multiple users simultaneously. The Number of users and the volume of data you need to store in the system, simultaneously. The amount of data to be stored and processed by the database software. The complexity of the data e.g. whether data is images, text, sound, videos, or various other formats.

For this project we need some tables which are mentioned and given a description about that project and a drawn table structure.

Table 1 : tbl_user

About tbl_user

System will use this table to store the username and password added by the user at the time of signup. After storing the system will use this data at the time of login to identify which user is trying to login. If user's record present in this table and user have entered correct username and password then system will redirect user to home page otherwise system will alert the user.

Table structure of tbl_user

user_id	user_name	user_contact_no	user_email_a dd	user_password	user_signup_da te
1	Ram	1111111111	ram@gmail.co m	—password—-	2023-03-12 19:09:34
2	Sita	22222222	sita@gmail.co m	—password—-	2023-03-12 19:09:34
3	Gopal	333333333	gopal@gmail.c om	—password—-	2023-03-12 19:09:34
4	Rohit	444444444	rohit@gmail.co m	—password—-	2023-03-12 19:09:34

Table tbl_user columns and its use

Column name	Use of that column
user_id	To identify each user uniquely (this column contain primary key)
user_name	To store the name of user
user_contact_no	To store user's contact number
user_email_add	To store email address of the user
user_password	To store password of user
user_signup_date	To store date time when user signed in the system

Table 2 : tbl_project

About tbl_project

In this table system is storing the project name, its description, when project is added and user id to identify which user is added to.

Table structure of tbl_project

project_id	project_name	project_description	project_added_date	user_id
1	Bizbase Outlet	description of project	2023-02-23 21:43:25	1
2	Menon and Menon	description of project	2023-02-23 21:43:25	1
3	Mahabali Software	description of project	2023-02-23 21:43:25	3
4	Billing Software	description of project	2023-02-23 21:43:25	2

Table tbl_project columns and its use

Column name	Use of that column		
project_id	To identify each project uniquely (this column contain primary key)		
project_name	To store the name of project		
project_description	To store the description of project		
project_added_date	To store the date time when project added by user		
user_id	To identify that project is added by which user (this column contain foreign key)		

Table 3: tbl_content

About tbl_content

In this table system will store problems added by the user for that project. This problem fetches the system when the user clicks on the search button which is present on the homepage of the system. After fetching the content of that project related to a user system will append the content in the respective section (do it, in progress, verify and done). System will fetch data from column **content**.

Suppose after fetching contents the user moves the problem/content from one section to another section the system will update only the **section_holding_ids** column. For example, if a user moves content from the Do it section to In Progress section the system will update the section_holding_ids from 1 to 2.

ld	section name		
1	Do it		
2	In progress		
3	Verify		
4	Done		

Table structure of tbl_content

content_id	content	content_added_d ate	section_hol ding_ids	project_id	user_id
1	Make ui responsive	2023-03-11 22:56:32	1	1	1
2	Getting problems while searching.	2023-09-11 22:56:32	4	2	3
3	Login page errors	2023-03-19 22:56:32	2	1	1
4	Verify the bill generated by the	2023-03-19	3	5	2

Table tbl_cotent columns and its use

Column name	Use of that column		
content_id	To identify each row uniquely (this column contain primary key)		
content	To store content/problem added by the user		
content_added_date	To store the date time of that content		
section_holding_ids	This column indicates that particular content present in which section		
project_id This column indicates this content is related to which project (this contain foreign key)			
user_id This column indicates this content is related to which user (this contain foreign key)			

Table 4: tbl_count

About tbl count

In this table system is storing the count of do it, in progress, verify, done for that project. Which is useful while generating a report. This table's new row for the project gets inserted when the user adds a new project. After inserting a row we will update the count of do it, in progress, verify and done related to that particular project added by the user.

The table gets updated when users add new content in the dashboard then the count of do it increases by 1 when one content is added. And also users move content from one section to another section then the count of sections from where content is moved is subtracted by 1 and the count of sections where that content is moved is added by 1.

Table structure of tbl_count

count_id	count_doit	count_inprogress	count_verify	count_done	user_id	project_id
1	5	10	2	1	1	1
2	7	4	11	1	3	2
3	7	6	20	21	2	5
4	9	4	5	5	1	3

Table tbl_count columns and its use

Column name	Use of that column		
count_id	To identify each row uniquely (this column contain primary key)		
count_doit	To store the count of total number of content present in the do it for particular project		
count_inprogress	To store the count of total number of content present in the in progress for particular project		
count_verify	To store the count of total number of content present in the verify for particular project		
count_done	To store the count of total number of content present in the done for particular project		
user_id	To identify this row is related to which user (this column contain foreign ke		
project_id	To identify this row contain the data of which project (this column contain foreign key)		

Table 5 : tbl_faq

About tbl_faq

In this table system storing the questions asked by users and their answers given by admin. System will fetch this data when the user lands on the help page and display only questions. When the user clicks on the drop button then the system will display the answer to that question.

System is maintaining status of answer

Status id	Status name	
1 Answer of that question is given		
2	Answer of that question is not given	

Table structure of tbl_faq

faq_id	faq	faq_ans	faq_ans _status	user_id	faq_added_date_ time
1	How to move content from one section to another ?	ans of the question	1	1	2023-03-12 18:32:47
2	What is a Project Management System ?	ans of the question	1	3	2023-03-12 18:32:47
3	How can I add a new task ?	ans of the question	0	3	2023-03-12 18:32:47
4	How to switch to another project ?	ans of the question	1	2	2023-03-12 18:32:47

Table tbl_faq columns and its use

Column name	Use of that column
faq_id	To identify each row uniquely (this column contain primary key)
faq	To store the questions asked by the user
faq_ans	To store the answer of that question
faq_ans_status	To store the status means answer of that question is given or not
user_id	To identify this question asked by which user
faq_added_date_time	To store the date time of question