C-Plus-Plus Project Date-20/03/2022

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Topic – To make a chatting Application and storing the previous chats using database.

Requirements-Basics of CPP,OOPs concepts of CPP, Basics of Databases(e.g. – MYSQL),Database Connector Concepts etc;

Other Requirements-Laptop or PC to Run Program, Application to Run/Implement(e.g.-Visual Studio), Mysql Application, popSQL ;

Theory: This chat Application Project is built in the Visual Studio Community 2022 . MySQL database is used to store the data of users such as chats and login credentials.

Concept of classes(oop) , built-in as well as user-defined functions , header files , database implementation in cpp are used in this project.

Some More Concepts of Databases :

1)TABLES:

USER LOGIN DETAILS

Graphical user interface, text

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CHATS STORED IN DATABASE TABLE

2)TABLES VIEW :

A screenshot of a computer

Description automatically generated with medium confidence

Shape

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Above data is stored in database as user enters or registers for the account.

Table 1

|  |  |
| --- | --- |
| userName | Loginkey |
|  |  |
|  |  |

Table 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| myuserName | friendname | sender | message | statuss | Datetime |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

IN the above Table 1, Username is the primary key.

In the Table 2,myUserName,friendName,sender are the foreign keys referencing to the users in the Table 1.

3) Main Screen -options given to log into account and to create new account.

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4) Usernames are uniquely stored in the databases so no duplicates entries allowed of same usernames while creating new account.

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5)Login Screen for existing user, if the user enters wrong login credentials he/she cannot login.Text

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6) With the correct username and password user can log into his/her account and he will be able to see the list of other users.

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7) New messages are informed to the user, that these messages are not read by user.

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8) After when the user reads the messages the messages that were informing will disappear.Text

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Code for Database Connection-

Graphical user interface, text, application

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\*Screens-

Text

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