

REAL TIME CHATTING APPLICATION

Project Synopsis Presentation

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Major Project (IMW651)
Degree : **BCA(MAWT)**

Project Guide:
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Contents:

- Project Brief
- Methodology, Technologies or Tools Used
- Context Diagram
- Modules in Application
- Data Flow Diagram
- Advantages of the project

The main objective of this project is to allow each and every person can get connected to each other, like a normal chat application. It's a web based application and it is the real time chatting application. It manage the details of the Chat user, Chat history.

Functions:

- Login/Signup with multiple methods.
- Users can upload their profile photo.
- Send and receive unlimited length of text message.
- User can send emoji and photos.
- Manage the information of user chat.
- Shows the information and description of Chat History.

The user interacts with the application using a GUI or we know that this application is web based so it is supported by all the browsers .

- The GUI operates in two forms, the list form & the chat form.

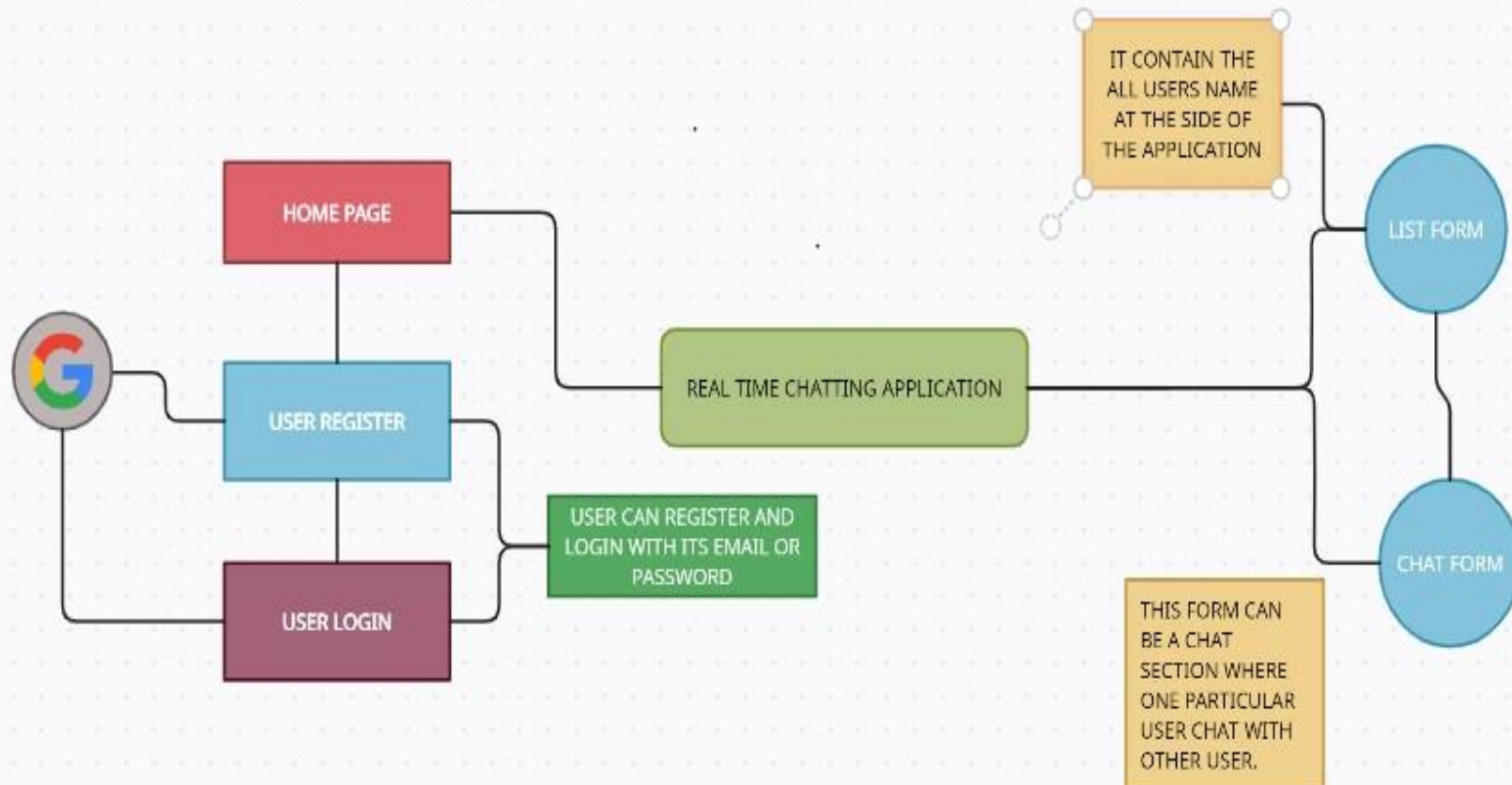
List Form :

In this form, or we can say that it can be a sidebar of the application where all the users names are listed below and also have a search bar to search any specific user.

Chat Form :

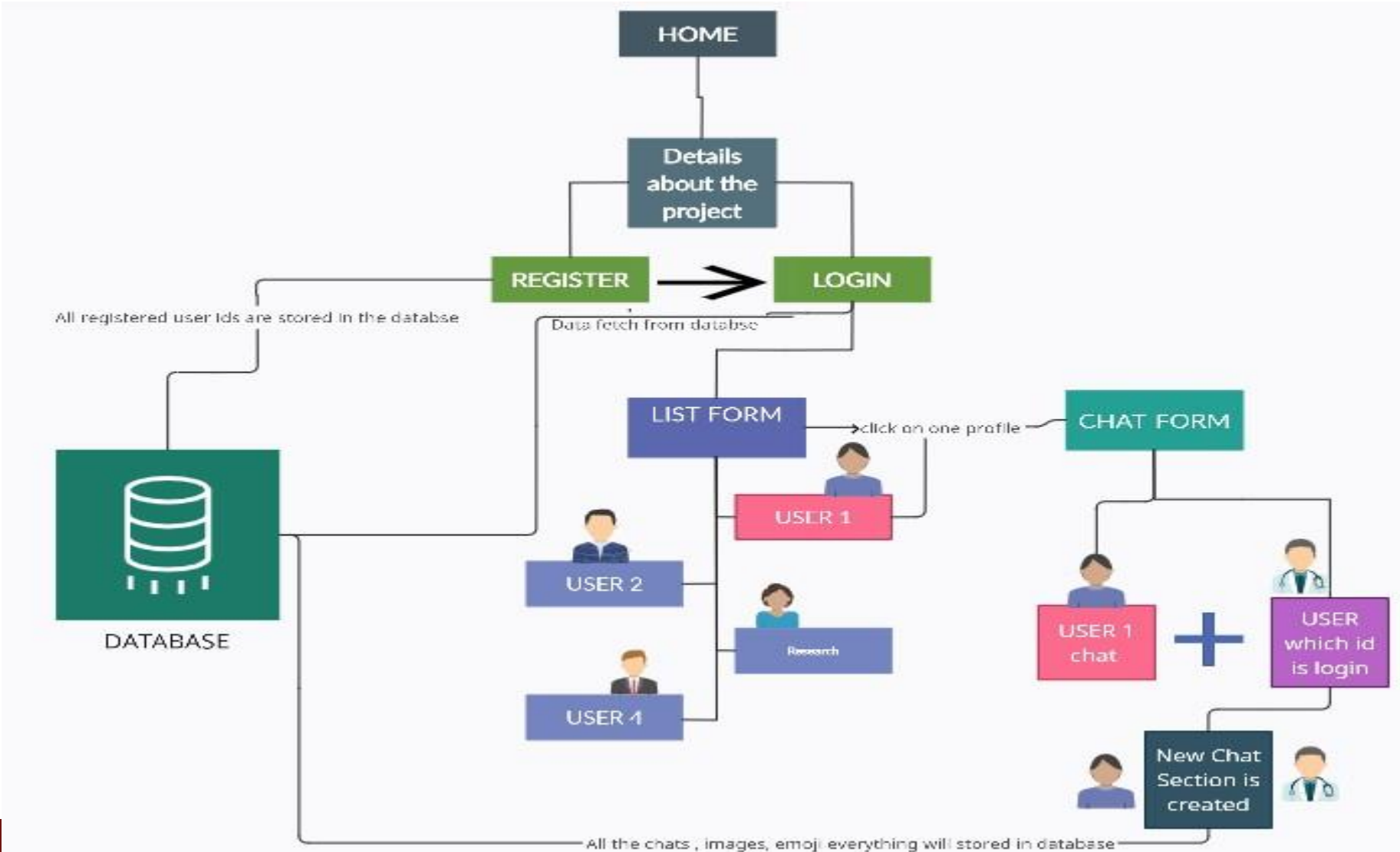
This form is really called only when an element or user chat profile is selected from the List form. In this form, a connection is created between the host and the selected user with the help of socket.

- Front End:
 1. HTML, CSS ,
 2. Reactjs(Framework)
 3. Bootstrap/Tailwind CSS
- Back End:
 1. Nodejs
 2. Socket.io
- Database:
 1. Firebase/ Mongo DB
- Tools:
 1. VS Code



Various modules in project:

- Full UI design module.
- User Registration and login Module.
- Text Message sending module.
- Image and Emoji sending module.
- Chat History module.



Strong Points of Real Time Chatting Application :

- Speed in usage.
- Easy and friendly UI.
- Privacy Protection.
- No lose of data.
- Firebase database is used in it so it is easy to deploy the application.

Thanks