

**9530**

**St.MOTHER THERESA ENGINEERING COLLEGE**

**COMPUTER SCIENCE ENGINEERING**

**NM-ID: 41963ba4d71577abdd94d90919773019**

**REG NO: 953023104124**

**DATE:19-09-2025**

**Completed the project named as**

**Phase 2**

**FRONT END TECHNOLOGY  
Blog Site with Comment Section**

**SUBMITTED BY,**

**M.Sudalai Mani**

**7708352610**

## Phase 2 — Solution Design & Architecture

- **Tech Stack Selection:**
  - **Frontend:** ReactJS, TailwindCSS / CSS Modules
  - **State Management:** React Hooks (useState, useEffect), Context API
  - **Backend (Future):** Node.js + Express (for REST APIs)
  - **Database (Future):** MongoDB / Firebase

## UI Structure / API Schema Design:

- **UI Components:**
  - ChatApp (root)
  - Sidebar (users list)
  - ChatWindow (messages area)
  - MessageInput (text input + send button)
  - MessageBubble (individual message)

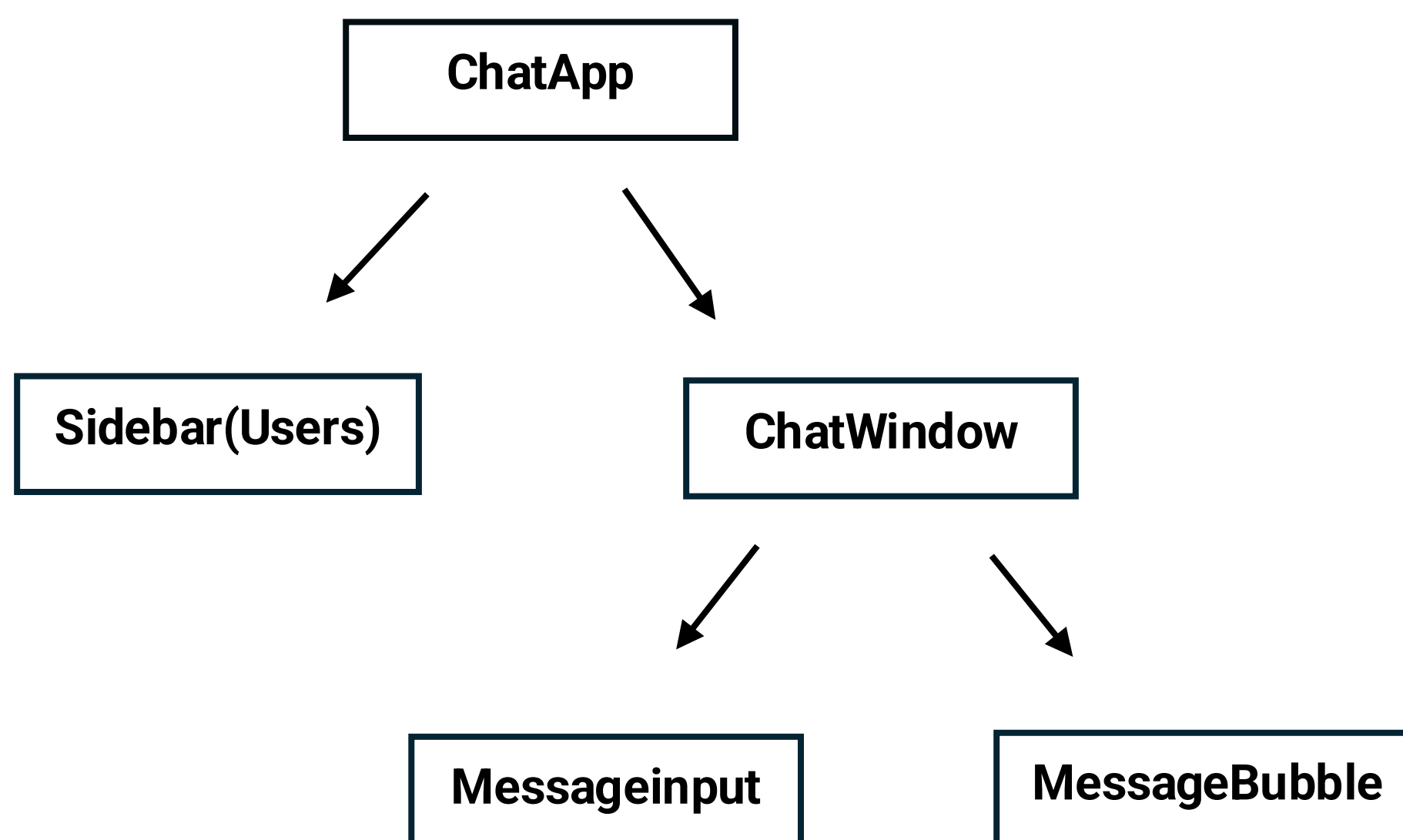
## API Schema (future):

```
{  
  "messageId": "123",  
  "sender": "User1",  
  "text": "Hello!",  
  "timestamp": "2025-09-13T12:00:00Z"  
}
```

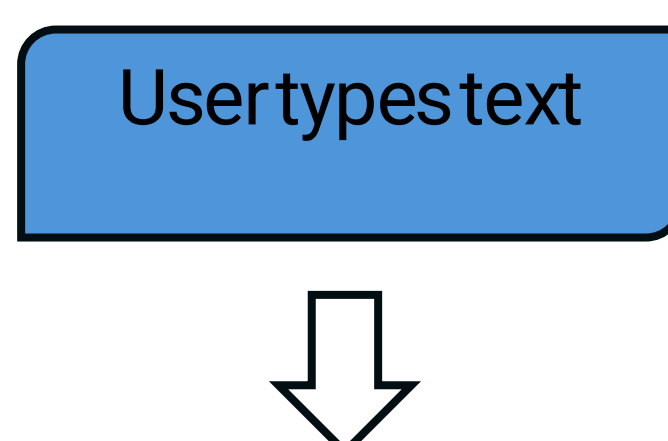
### Data Handling Approach:

- Store messages in local React state (array of objects).
- On new message → update state → re-render chat window.
- Future: integrate with backend API.

### Component / Module Diagram:



### Basic Flow Diagram:



Clicks send



Message added to  
state



UI updates



Message displayed in  
ChatWindow