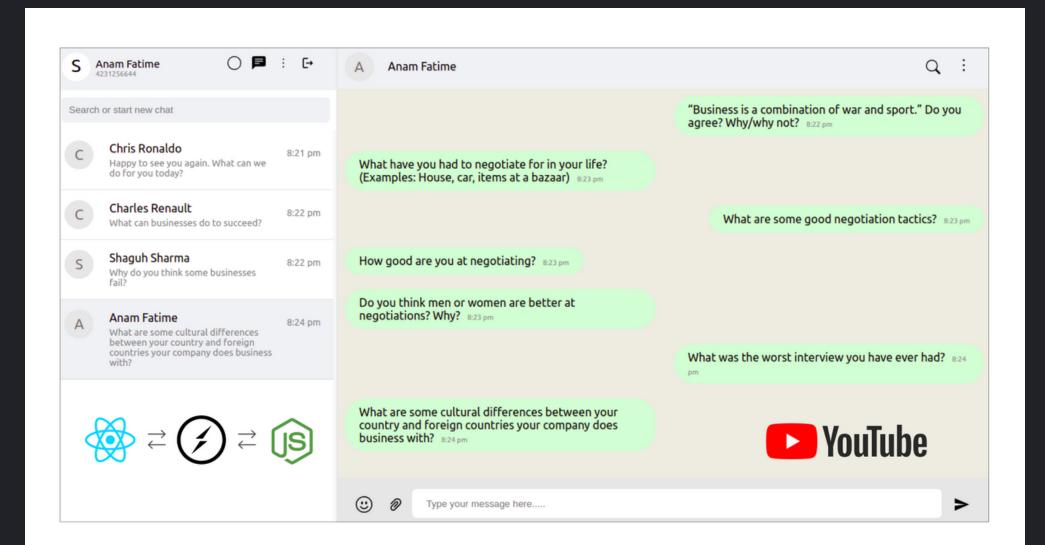
Let's Build a WhatsApp Chat App with React JS, Node JS and Socket.10

Realtime output



Basics of Communication Protocols

- Http protocol
- Websocket protocol

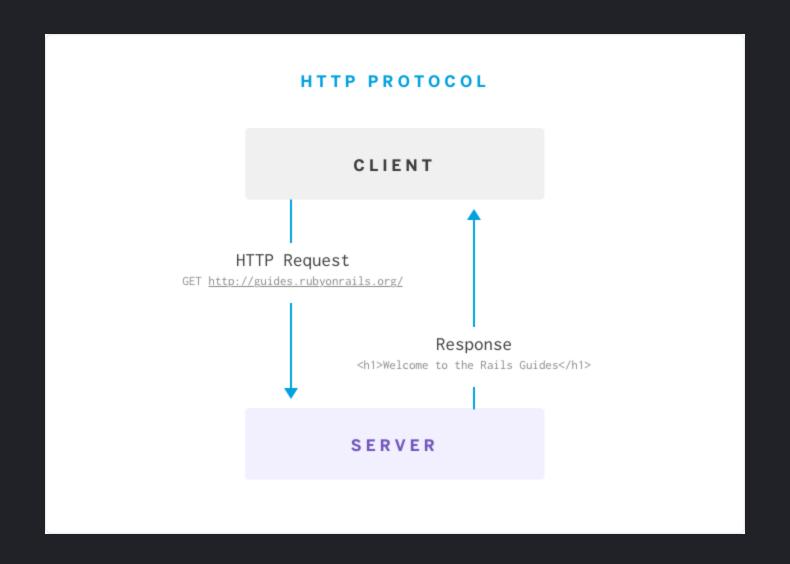




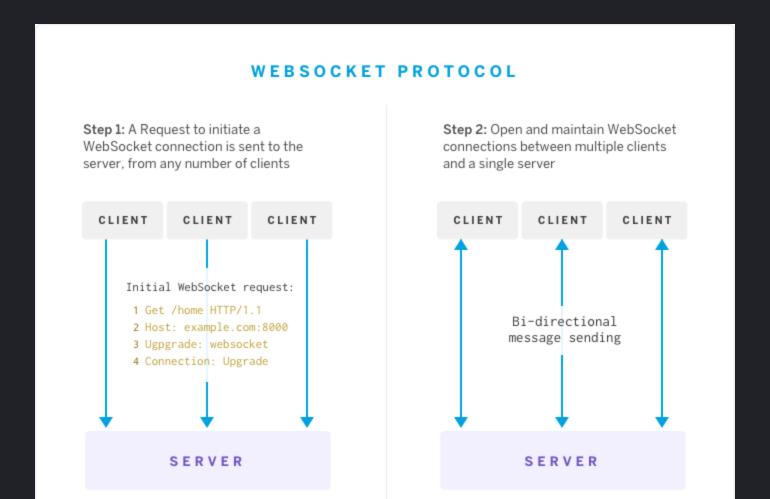
Http vs Websocket Protocol

Sr. No.	WebSocket	HTTP
1	Bidirectional	Unidirectional
	WebSockets can send data from the	The user request will be sent in the
	client to the server or vice versa.	form of HTTP request to the client
		and after receiving this request only
		the server will respond.
2	Full-duplex	Half-duplex
	Client and server can talk to each other	Traffic flows only in one direction at a
	independently at the same time.	time
3	Request HandShake WebSocket Server	Request Response Connection Terminated Server
	Fig 1.1 WebSocket Connection	Fig 1.2 HTTP Connection

Http Protocol



Websocket Protocol



Realtime Http Use cases

- 1. CRUD Operation
 - Create, Read, Update and Delete

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Realtime Websocket Use cases

- 1. Financial data streaming
 - Trading apps like Zerodha, bitmex etc...
- 2. Chat services
 - Messaging apps like Whatsapp, Messenger etc...
- 3. Multiplayer games
 - Gaming apps like Pubg, Free fire etc...



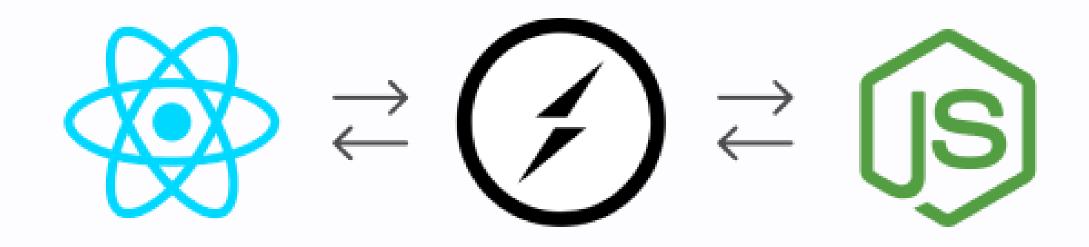
Now you know the clear idea about which protocol is used to build this whatsapp chat app



Now you have a question which stack(programming language) is used to build this application very quickly, easily and efficiently.



Stacks used in this application





Prerequisite software

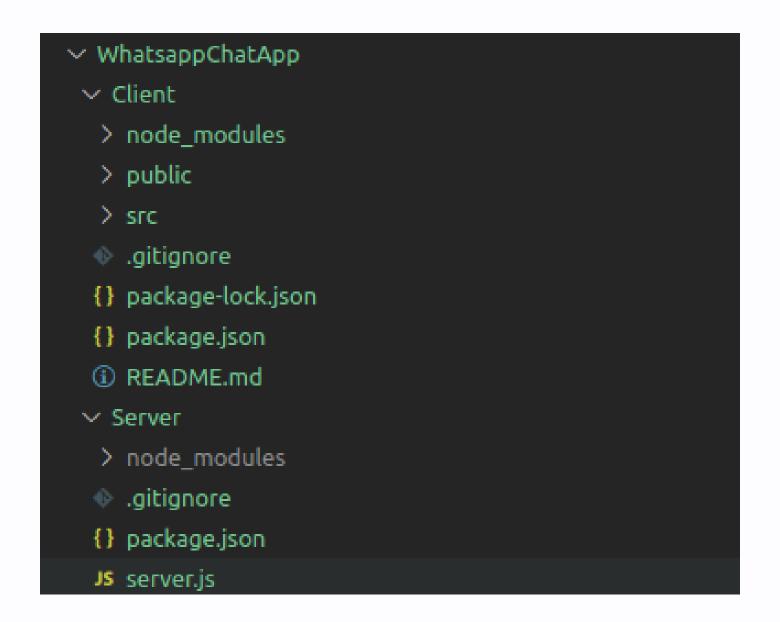
- Install Node Js
- Install NPX NPM Package Runner (x probably stands for eXecute)
- Install NPM Node Package Manager



Prerequisite language

- Basics of HTML, CSS and Javascript
- Basics of React Js setup
 - npx create-react-app whatsapp-chat-app
- Basics of Node Js
 - npm init

Folder Structure



- 1. Client / Frontend
 - React UI Components

- 2. Server / Backend
 - Node Js Business Logics



Interview Questions

- Websocket, http
- Full duplex, Half duplex
- NPM, NPX
- Node Js, React Js, Socket.IO
- Bidirectional, Unidirectional

Let's move to live coding.....





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