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**Web Components**

Custom-message

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Higher Diploma In SE

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# INTRODUCTION

The web component I am going to create is a customer helping chat form. It will allow users to interact with a chat interface to ask questions, seek assistance, and receive responses. Using this web components don’t have to do coding each chat.

By implementing the customer helping chat form as a web component, We can provide an interactive and user-friendly support experience, streamline your customer support processes, and benefit from the advantages of web component development, such as reusability, customization, and standardization.

The web component I am going to define, <custom-message>, provides a reusable and encapsulated way to represent messages in a chat interface. By using this custom element, We can enhance the user experience and simplify the development process.

* Modularity and Reusability: The <custom-message> element encapsulates the HTML structure and behavior related to displaying a message. It allows you to define the message content, including the author's name, profile photo, message text, and time, in a consistent and reusable manner. You can easily use the <custom-message> element multiple times throughout your application, reducing code duplication and making it easier to maintain and update the chat interface.
* Ease of Use: By utilizing the custom element, you can provide a user-friendly interface for displaying messages. Instead of manually writing HTML and JavaScript for each message, you can simply use the <custom-message> element and set the relevant attributes to customize the content. This makes it easier and more intuitive to add and manage messages within your chat interface.
* Dynamic Updates: The attributeChangedCallback() function in the CustomMessage class allows you to respond to changes in the attributes of the <custom-message> element. This enables dynamic updates of the message content based on user interactions or external events. For example, you can update the message text, author's name, or profile photo in real-time when a new message is received or when the user interacts with the chat interface.
* Separation of Concerns: The use of web components promotes a clean separation of concerns between the structure, style, and behavior of your chat interface. With the <custom-message> element, you can define the structure of a message in one place (the template), apply styling through CSS, and handle attribute changes and interactions within the CustomMessage class. This separation enhances code maintainability and allows for better collaboration among developers working on different aspects of the chat interface.

# THE LAYOUT

The layout of what I am going to implement

**Helper** How can I help you 17:05

**Helper** Click here 17:05

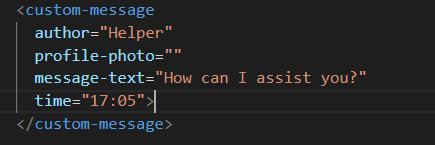
**Me** How can I make donation 17:05

**Me** Thank You 17:05

# DESCRIPTION

|  |  |
| --- | --- |
| Description | |
|  | This Component will hold all other components |
|  | This component used to implement profile picture  Should include image URL profile-photo="" in content of the custom-message |
| **Helper** /  **Me** | This Component represents whether chat member is customer’s supporter or customer. If you add author="Me" It will represent right side. If the author=!”Me”, It will show in left side.  Js-  this.querySelector('.message').classList.toggle('self', newValue === 'Me');  Css-  .message.self {  float: right;  } |
| How can I help you | The chat between helper and customer (What customer asking and how user will help)  We can give any text in this component. It represent by message-text="How can I assist you?" |
| 17:05 | This component show time when the message will send to other. It represents by time="17:05" |

All those components should give inputs as the custom-message tag’s attributes



After Adding those result will show as following

**Helper** How can I help you 17:05

# Bibliography

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