DIGITAL PORTFOLIO

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PROJECT TITLE

- INTERACT DIGITAL PORTFOLIO USING FRONTEND DEVLOPMENT

AGENDA

- 1.PROBLEM STATEMENT
- 2.PROJECT OVERVIEW
- KEY FEATURES
- 3.END USERS
- TOOLS AND TECHNIQUES
- PORTFOLIO DESING AND LAYOUT
- FUNCTIONALITY
- CONCLUSION

PROBLEM STATEMENT

► While numerous messaging platforms exit many are either overly complex require heavy backend infrastructure or lack customization for specific user needs. This project aims to develop a simple frontend based messenger website that allows user to send and view message in real time providing a clean and intuitive interface for basic communication.

► Enable user to type and sent messages that appear instantly in the chat window.

► Lay the foundation for future enhancements like user authentication, message persistence and real time backend integration.

PROJECT OVERVIEW

▶ The mini messenger website is a lightweight front-end-only chat interface designed to simulate real time messaging built using Html, CSS ,and java script it offers users a clean and intuitive space to send and view messages instantly without requiring backend infrastructure.

▶ Deliver a responsive and user friendly chat UI.

▶ Enable instant message display using java script DOM manipulation.

KEY FEATURES

▶ Simple message input and display.

▶ Auto scrolling chat window.

▶ Clean ,mobile- friendly design.

▶ Easy to extend with backend support.

WHO ARE THE END USERS

▶ End users :

▶ Individual looking for a simple , no-login chat interface.

▶ Want quick , lightweight communication without installing apps.

▶ Ideal for temporary or anonymous messaging.

▶ Students & Learner:

▶ Web development students practicing frontend skills.

▶ Use the messenger as a sandbox to experiment with UI/ UI or java script.

▶ Can extends the project for assignments or portfolio work.

END USER

▶ Developers & Designers:

▶ Front end developers testing chat layout or message handling logic .

▶ UI/UX designers prototyping messaging interface s.

▶ Backend developers preparing to integrate real time features.

TOOLS AND TECHNIQUES

▶ HTML-For creating the structure of the website .

▶ CSS-For styling the layout making the Website responsive improving user experience.

▶ JAVA-For implementing functionality such as loading products.

▶ TEXTEDITOR: Codepen is used for writing and managing the code.

TOOLS AND TECHNIQUES

▶ Semantic HTML: using meaningful tags like <form> ,<header>, and <div>clarity and accessibility.

▶ Responsive Layout: Flexbox ensures the chat container adapts to different screen size.

▶ Minimalist UI/UX: Clean design with intuitive input and message flow.

PORTFOLIOSTRUCTURE AND DESIGN

- ▶ Header
- ▶ Fixed or sticky top bar.
- ▶ Contain: site name/ logo: mini messenger .
- ▶ Optional: add a theme toggle or user avatar.
- ▶ Chat container
- ▶ Chat box : scrollable area for messages.
- ▶ Message bubbles: alignment depending on sender.
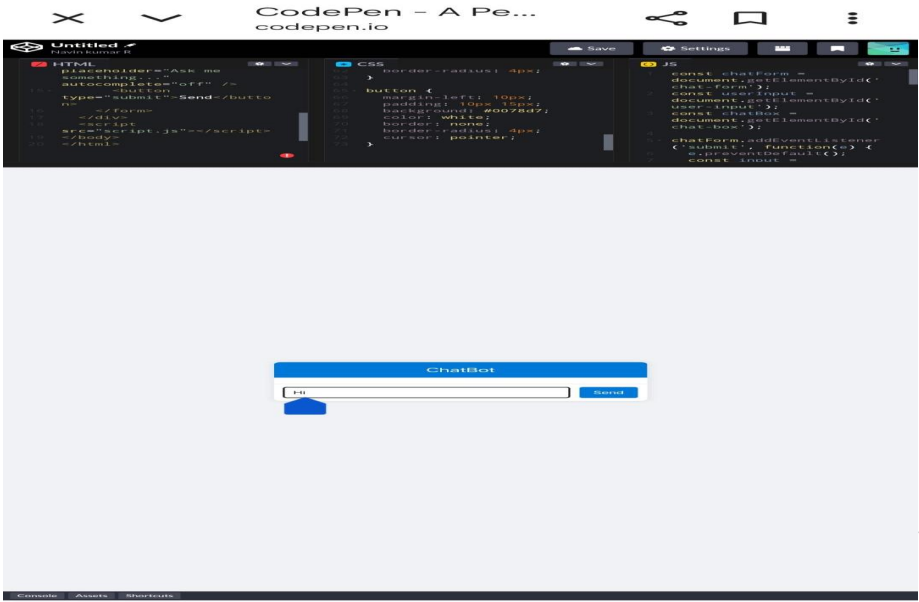- ▶ Timestamp :small under each message.

PORTFOLIOSTRUCTURE AND DESIGN

▶ Input section:

▶ Text input field.

▶ Send button.

▶ Responsive design

▶ Mobile first layout using media queries.

▶ Chat box height adjusts dynamically.

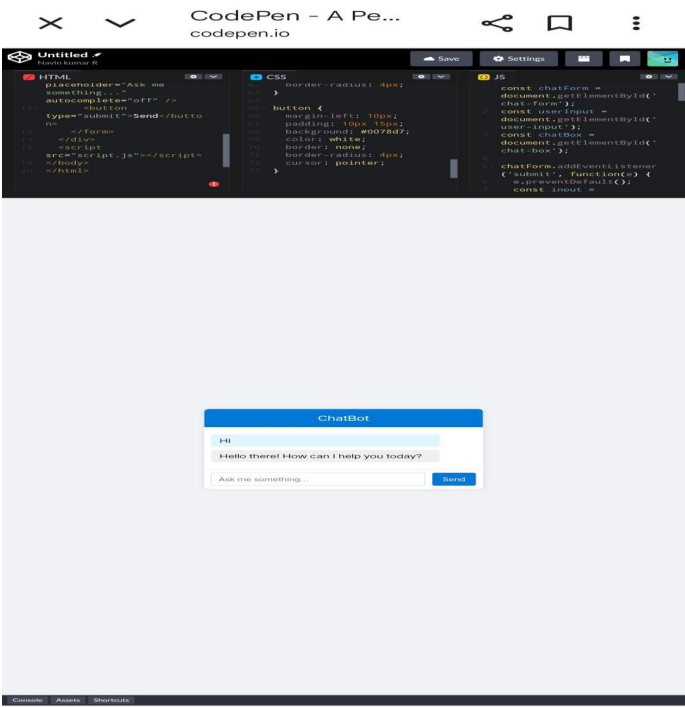▶ Input field and button stack gracefully.

FUNCTIONALITY

- ▶ Message input and display:
- ▶ Users can type a message into the input field.
- ▶ On clicking "send" or pressing enter the messages are displayed instantly in the chat window .
- ▶ Message are displayed as styled bubbles for readability.
- ▶ Input field rest :
- ▶ After sending a message the input field clears automatically.
- ▶ Prevents duplicate message and improves flow.

RESULT AND SCREENSHOT

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CONCLUSION

▶ The mini messenger website successfully demonstrate how a clean ,responsive , and interactive chat interface can be built using only front end technologies HTML ,CSS , and java script.

▶ It offers users a seamless experience for sending and viewing message in real time .