WEB TECHNOLOGY

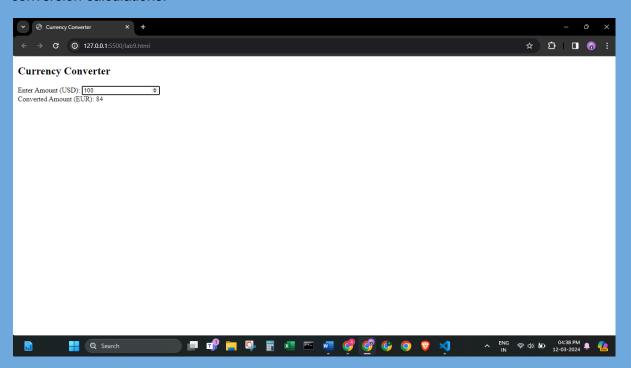
LAB-9

NAME - BHUSHIT CHAWHAN

BRANCH - CSE

ROLL NO. - 22CS3023

T1. Develop a currency converter application that allows users to input an amount in one currency and convert it to another. For the sake of this challenge, you can use a hard-coded exchange rate. Take advantage of React state and event handlers to manage the input and conversion calculations.



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    → lab1.html
    → lab2.html

    ↓ lab3.html
    ↓ lab4.html

                 cscript>
new Vue({
  el: '#app',
  data: {
    usdAmount: 0,
    exchangeRate: 0.84, // Hard-coded exchange rate: 1 USD = 0.84 EUR
    eurAmount: 0
},
                     ♦ lab9.html
Iogin.docx
                      no.pypackage-lock.json
                                                                                                            eurAmount: 0
},
methods: {
    convertCurrency() {
        this.eurAmount = this.usdAmount * this.exchangeRate;
    }
});

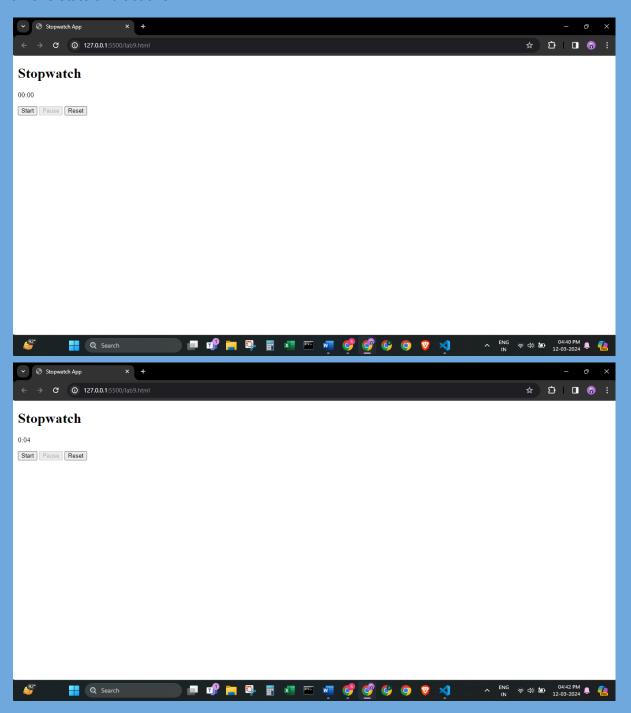
</script>
</body>
</html>

    pinterest1.jpg
    product1.html

                     oproject.html
pxfuel (2).jpg
JS script.js
# styles.css
> OUTLINE 3
3
3
> TIMELINE 8

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T2. Create a stopwatch application through which users can start, pause and reset the timer. Use React state, event handlers and the setTimeout or setInterval functions to manage the timer's state and actions.



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       ✓ WEB DEVELOPMENT
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                                    ♦ lab9.html > ♦ html > ♦ body > ♦ script > ₱ methods > ♦ pauseTimer
                                     2 <html lang="en
9 <body>
       card.png
                                                   methods: {
   startTimer() {
        explore_draft.htmlexplore.html
         ▶ HTML and CSS Funda...
                                                      pauseTimer() {
   if (this.running) {
      this.running = false;
      clearInterval(this.timerInterval);
}
        lab3.html
      ↓ lab5.html↓ lab6.html
                                                      resetTimer() {
  this.running = false;
  clearInterval(this.timerInterval);
  this.currentTime = 0;
        login.docx
       no.pypackage-lock.json
                                                      pupdateTime() {
    this.timerInterval = setInterval(() => {
                                                           if (this.running) {
   this.currentTime = Date.now() - this.startTime;
        pinterest1.jpg
        project.html
       JS script.js
# styles.css
> OUTLINE
> TIMELINE
                  Q Search
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```

T3. Develop a messaging application that allows users to send and receive messages in real time. The application should display a list of conversations and allow the user to select a specific conversation to view its messages. The messages should be displayed in a chat interface with the most recent message at the top. Users should be able to send new messages and receive push notifications.



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EXPLORER ··· IS index.js • project.html IS app.js • lab9.html × B° Extension: Vetur • explore_draft.html
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            File Edit Sefection Field Fi
                                                                                                                                                            },
selectConversation(index) {
this.selectedConversationIndex = index;
                                                                                                                                                          fnt.selectectonic
},
sendMessage() {
  const messageRef = firebase.database().ref(`/conversations/${this.selectedConversation.key}/messages`);
messageRef.push({
   sender: this.user,
   text: this.newMessage
});
                          c4.webp
c4.wepg.jpg
                            c5.jpeg
card.png
                              explore_draft.htmlexplore.html
                                                                                                                                                   }
},
created() {
  firebase.initializeApp(firebaseConfig);
  firebase.auth().onAuthStateChanged(user => {
    this.user = user;
    if (user) {
      const conversationsRef = firebase.database().ref('/conversations');
      conversationsRef.on('value', snapshot >> {
        this.conversations = snapshot.val();
    });
}
                               lab3.html
                              lab5.html
                            login.docx
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