

Web Programming

BCSE203E

Project

Stock Viewer

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and Piyush Watts (23BCI0234)

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Abstract:

The Stock Viewer is a web development project designed to display real-time stock market data using HTML, CSS, and JavaScript. The goal of this project was to create an intuitive and user-friendly interface that allows users to search for and view detailed stock information, such as the current price, volume, and daily trends of various companies. By integrating APIs to fetch live stock data, the project aims to provide users with accurate and up-to-date information at their fingertips. The frontend was built with HTML and CSS to create a clean, visually appealing layout, while JavaScript was used to dynamically update the stock information without needing to refresh the page. The project serves as a practical way to learn the fundamentals of web development, including how to work with APIs, handle asynchronous operations, and create responsive layouts. Ultimately, the Stock Viewer serves as a simple but effective tool for those interested in tracking the stock market in real time.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Stock Viewr</title>
    <link rel="icon" type="image/x-icon" href="assets/icons/stock-80.png">
    <style>
        @import url('https://fonts.googleapis.com/css2?family=Boldonse&display=swap');
    </style>
    <script src="https://cdn.jsdelivr.net/npm/chart.js"></script>

</head>
<body>
    <div id="header">
        
        <h1>Stock Viewr</h1>

        <div id="nifty" class="header-boxes">
            <p class="points" id="nifty-points">23490</p>
            <p>NIFTY</p>
        </div>

        <div id="sensex" class="header-boxes">
            <p class="points" id="sensex-points">77340</p>
            <p>SENSEX</p>
        </div>

        <div id="date-time-box">
            <p id="time">03:55 pm</p>
            <p id="date">23 March 2023</p>
        </div>
        <button id="profile-box" onclick="openNav()"></button>
    </div>
    <div id="menu">
        <button onclick="fhome()">Home</button>
        <button onclick="fabout()">About</button>
        <button onclick="fprofile()">Profile</button>
    </div>
</body>
```

```
<button onclick="fcomplaints()">Complaints</button>
<button onclick="ftc()">T&C</button>

</div>

<div id="side-profile-menu">
    <button onclick="closeNav()"></button>
    <p>Farzeen Ilyas Zargar</p>
    
    <p>New Delhi, India</p>
</div>

<div id="home">

    <div id="all-content">
        <div id="graph">
            <p id="stock-name">Stock Name</p>
            <div class="chart-container">
                <canvas id="stockChart"></canvas>
            </div>
            <div id="error-message"></div>
        </div>
        <div id="asks">
            <div class="stock-input">
                <label for="symbol">Enter Stock Symbol (e.g., TATAMOTORS.NS for NSE or TATAMOTORS.BSE for BSE):</label>
                <input type="text" id="symbol" placeholder="">
                <button id="getStockData">Get Stock Data</button>
            </div>
            <div id="error-message"></div>
        </div>
    </div>
</div>

<div id="about">
    <h1>About Us</h1>
    <p>Welcome to Stock Viewr, your go-to platform for easily tracking and analyzing stock data. Developed by Farzeen and Piyush as part of our web programming</p>
</div>
```

class project, Stock Viewr aims to provide users with real-time access to stock market information, financial charts, and in-depth market analysis.</p>

<p>Our mission is simple: to create a user-friendly tool that helps individuals stay informed about the stock market, make educated decisions, and track their investments with ease. Whether you're a beginner or an experienced trader, Stock Viewr offers valuable insights to guide your market journey.</p>

<p>Farzeen and Piyush, both passionate about programming and finance, came together to develop Stock Viewr as a way to combine our skills in web development with our interest in the stock market. As students in our web programming class, we saw an opportunity to create a platform that could help people manage their stock market research more efficiently.</p>

<p>We aim to empower users by giving them the tools to track and analyze their investments, helping them make smarter financial decisions. Stock Viewr was built with simplicity, speed, and accuracy in mind, providing a smooth user experience for everyone from beginners to seasoned investors.</p>

```
<div style="display: flex; justify-content:space-around;">
    <div>
        
        <p>Farzeen Ilyas Zargar (23BCT0247)</p>
    </div>
    <div>
        
        <p>Piyush Watts (23BCI0234)</p>
    </div>

</div>

</div>

<div id="profile">
    <h1>Profile</h1>
    <div id="prof">
        <div id="pfp-prof">
            
        </div>
        <div id="info-prof">
            <p>Name: Farzeen Ilyas Zargar</p>
            <p>Location: New Delhi, India</p>
            <p>Undergrad at VIT Vellore</p>
        </div>
    </div>
</div>
```

```
</div>

</div>

</div>

<div id="complaints">
    <h1>Complaints</h1>
    <form>
        <form id="form">
            <label for="name">Full Name:</label>
            <input type="text" id="name" name="name" required placeholder="Enter your full name">

            <label for="email">Email:</label>
            <input type="email" id="email" name="email" required placeholder="Enter your email address">

            <label for="complaint">Complaint:</label>
            <textarea id="complaint" name="complaint" rows="4" required placeholder="Describe your complaint"></textarea>

            <label for="file">Attach File (Optional):</label>
            <input type="file" id="file" name="file">

            <button type="submit" class="submit-btn">Submit</button>
        </form>
    </form>
</div>

<div id="t-c">
    <h1>Terms and Conditions</h1>
    <p>Welcome to Stock Viewr, a stock viewing platform. By accessing or using our platform, you agree to comply with and be bound by the following Terms and Conditions. Please read them carefully. If you do not agree with any part of these terms, you must not use our platform.</p>
    <p>1. Acceptance of Terms By using the Stock Viewr website and its associated services, you agree to comply with these Terms and Conditions. We reserve the right to update, modify, or amend these terms at any time, and such changes will be effective immediately upon posting to the platform. We encourage you to periodically review these Terms and Conditions to stay informed of any updates.</p>

```

<p>2. Services Provided Stock Viewr provides access to real-time stock data, financial charts, news, market analytics, and other stock-related information (the "Services"). We do not offer investment advice or recommendations, and the information provided on our platform is solely for informational purposes.</p>

<p>3. Use of the Platform You agree to use the platform and its Services for lawful purposes only. You must not:

Violate any applicable laws or regulations.

Engage in any conduct that could harm the platform's reputation or functionality.

Attempt to access or manipulate any part of the platform's data or systems that you are not authorized to use.

Use the platform to promote spam, viruses, or other harmful content.

<p>4. Account Registration To access certain features or Services on the platform, you may be required to register for an account. You agree to provide accurate, complete, and current information during the registration process and to maintain the security of your account credentials. You are responsible for all activities that occur under your account, whether authorized or unauthorized.</p>

<p>5. Data Accuracy While we strive to provide accurate, timely, and reliable data, Stock Viewr does not guarantee the accuracy or completeness of the information presented on the platform. All stock data, news, and analytics are subject to change and should be verified independently. We are not liable for any losses or damages resulting from reliance on inaccurate information.</p>

<p>6. Third-Party Links and Content Our platform may contain links to third-party websites, products, or services. These links are provided for your convenience, and we do not endorse or control these third-party websites. Stock Viewr is not responsible for the content, privacy policies, or practices of third-party sites.</p>

<p>7. Disclaimer of Warranties The Services provided on Stock Viewr are offered "as is" and "as available," without warranties of any kind, either express or implied, including but not limited to the accuracy, completeness, or timeliness of the information, or that the platform will be error-free or uninterrupted. You agree that your use of the platform is at your sole risk.</p>

<p>8. Limitation of Liability To the fullest extent permitted by applicable law, Stock Viewr and its affiliates, officers, employees, and agents shall not be liable for any direct, indirect, incidental, special, consequential, or punitive damages arising out of your use of the platform or its Services, even if we have been advised of the possibility of such damages.</p>

</div>

<div id="footer">

<p>Copyright © 2025. All rights reserved.</p>

```
</div>

</body>
<style>
  *
  {
    font-family: "Boldonse", system-ui;
  }

  body
  {
    margin: 0;
    padding: 0;
    text-align: center;
    display: flex;
    flex-direction: column;
    margin: 0px;
    align-items: center;
  }

  #header
  {
    display: flex;
    flex-direction: row;
    align-items: center;
    height: 60px;
    width: 90vw;
    margin-top: 10px;
    font-size: 10px;
    display: flex;
    flex-direction: row;
    justify-content: space-between;
  }

  #header h1
  {
    width: 50vw;
    text-align: left;
  }

  #header img
  {
```

```
    height: 50px;
    margin: 5px;
}

.header-boxes
{

    border: 2px solid black;
    height: 60px;
    width: 8vw;
    padding: 0;
    line-height: 10px;

}

.points
{
    font-size: 14px;
    color: purple;
}

#profile-box
{
    border: none;
    background-color: white;
    height: 50px;
    width: 50px;
    display: flex;
    align-items: center;
    justify-content: center;

}

#side-profile-menu
{
    background-color: black;
    color: white;
    height: 100vh;
    width: 0px;
    position: fixed;
    z-index: 1;
    top: 0;
    right: 0;
    transition: 0.5s;
```

```
}

#side-profile-menu button
{
    background-color: black;
    border: none;
    margin-top: 10px;

}

#pfp
{
    height: 100px;
}

#menu
{
    display: flex;
    align-items: center;
    justify-content: space-around;
    margin-top: 10px;
    margin-bottom: 10px;
    width: 90vw;
    background-color: black;
    color: white;
    font-size: 8px;
}

#menu button
{
    background-color: black;
    color: white;
    border: none;
}

#menu button:hover
{
    color: white;
    text-shadow: 1px 1px rgb(181, 175, 175);

}

#menu button:active
{
```

```
        color: white;
        text-shadow: 1px 1px white;
    }

#content
{
    border: 1px solid black;
    width: 90vw;
    display: flex;
    flex-direction: row;
}

#sensex-graph-box
{
    border: 1px solid black;
    width: 45vw;
    height: 400px;
}

#nifty-graph-box
{
    border: 1px solid black;
    width: 45vw;
    height: 400px;
}

#all-content
{
    border: 1px solid black;
    width: 90vw;
    margin-top: 10px;
    margin-bottom: 10px;
    height: 600px;
    display: flex;
    flex-direction: row;
}

.chart-container {
    text-align: center;
    width: 50vw;
}
```

```
#graph
{
    border: 1px solid black;
    width: 65vw;
    display: flex;
    flex-direction: column;
    align-items: center;
}

#asks
{
    border: 1px solid black;
    width: 25vw;
    display: flex;
    flex-direction: row;
    justify-content: center;
    align-items: center;
    padding: 20px;
    font-size: 15px;
}

#asks input
{
    width: 20vw;
    margin-top: 20px;
    margin-bottom: 20px;
    height: 30px;
    font-size: 15px;
}

#asks button
{
    background-color: black;
    color: white;
    border: none;
    padding: 10px;
}

#profile
{
    display: none;
```

```
margin-bottom: 20px;

width: 80vw;
}

#prof
{
    display: flex;
    flex-direction: row;
    width: 80vw;

}

#pfp-prof
{
    width: 20vw;
    display: flex;
    justify-content: center;
    align-items: center;

}

#pfp-prof img
{
    height: 150px;

}

#info-prof
{
    width: 60vw;
    text-align: left;
}

#list-of-stocks
{
    margin-top: 10px;
    border: 1px solid black;
}

#complaints
```



```
    border: 1px solid black;
}

#about
{
    width: 80vw;

    display: none;
    margin-top: 0px;

}

#about p
{
    text-align: justify;
}

#about img
{
    height: 200px;
    margin-top: 40px;
}

#t-c
{
    width: 80vw;

    display: none;
    margin-top: 0;
    margin-bottom: 20px;
}

#t-c p, li
{
    text-align: justify;
}

#footer
{
    background-color: black;
    color: white;
```

```
height: 50px;
display: flex;
align-items: center;
justify-content: center;
margin-top: 10px;
font-size: 12px;
width: 100vw;
font-weight: 200;
}

</style>

<script>
let time = document.getElementById("time");
let date = document.getElementById("date");
setInterval(()=>
{
    let d = new Date();
    date.innerHTML = d.toLocaleDateString();
    time.innerHTML = d.toLocaleTimeString();
}, 1000)

let home = document.getElementById("home");
let tc = document.getElementById("t-c");
let about = document.getElementById('about');
let complaints = document.getElementById("complaints");
let profile = document.getElementById("profile");

function fhome()
{
    if (home) {
        if (home.style.display == 'none') {
            home.style.display = 'block';
            tc.style.display = 'none';
            about.style.display = 'none';
            complaints.style.display = 'none';
            profile.style.display = 'none';
        }
        else {

```

```
        home.style.display = 'none';
    }
}
}

function ftc()
{
    if (tc) {
        if (tc.style.display == 'none') {
            tc.style.display = 'block';
            home.style.display = 'none';
            about.style.display = 'none';
            complaints.style.display = 'none';
            profile.style.display = 'none';
        }
    } else {
        tc.style.display = 'none';
    }
}

function fabout()
{
    if (about) {
        if (about.style.display == 'none') {
            about.style.display = 'block';
            tc.style.display = 'none';
            home.style.display = 'none';
            complaints.style.display = 'none';
            profile.style.display = 'none';
        }
    } else {
        about.style.display = 'none';
    }
}

function fcomplaints()
{
    if (complaints) {
        if (complaints.style.display == 'none') {
            complaints.style.display = 'block';
            tc.style.display = 'none';
        }
    }
}
```

```
        about.style.display = 'none';
        home.style.display = 'none';
        profile.style.display = 'none';
    }
} else {
    complaints.style.display = 'none';
}
}

function fprofile()
{
    if (profile) {
        if (profile.style.display == 'none') {
            profile.style.display = 'block';
            tc.style.display = 'none';
            about.style.display = 'none';
            complaints.style.display = 'none';
            home.style.display = 'none';
        }
    } else {
        profile.style.display = 'none';
    }
}

}

function openNav()
{
    document.getElementById("side-profile-menu").style.width = "300px";
}

function closeNav()
{
    document.getElementById("side-profile-menu").style.width = "0";
}

const apiKey = "TXRALTIIX2IZQ5D8F";
const baseUrl = "https://www.alphavantage.co/query?";
```

```
async function fetchStockData(symbol)
{
    const url =
` ${baseUrl}function=TIME_SERIES_DAILY&symbol=${symbol}&apikey=${apiKey}&outputsize=compact`;

    try {
        const response = await fetch(url);
        const data = await response.json();

        if (data["Error Message"])
        {
            displayError("Stock symbol not found.");
            return;
        }

        if (data["Time Series (Daily)"])
        {
            const stockData = data["Time Series (Daily)"];
            const labels = [];
            const prices = [];

            for (let date in stockData)
            {
                labels.push(date);
                prices.push(stockData[date]["4. close"]);
            }

            displayChart(labels, prices);
        }
        else
        {
            displayError("Unable to fetch stock data.");
        }
    }
    catch (error)
    {
        console.error("Error fetching stock data:", error);
        displayError("An error occurred while fetching the stock data.");
    }
}
```

```
function displayChart(labels, prices)
{
    const ctx = document.getElementById('stockChart').getContext('2d');

    const chart = new Chart(ctx, {
        type: 'line',
        data: {
            labels: labels.reverse(),
            datasets: [{

                label: 'Stock Price (INR)',
                data: prices.reverse(),
                borderColor: 'rgba(255, 0, 0, 1)',
                backgroundColor: 'rgba(255, 0, 0, 0.2)',
                fill: true,
                tension: 0.1
            }]
        },
        options: {
            scales: {
                x: {
                    type: 'category',
                    title: {
                        display: true,
                        text: 'Date'
                    }
                },
                y: {
                    title: {
                        display: true,
                        text: 'Price (INR)'
                    }
                }
            }
        }
    ) ;
}

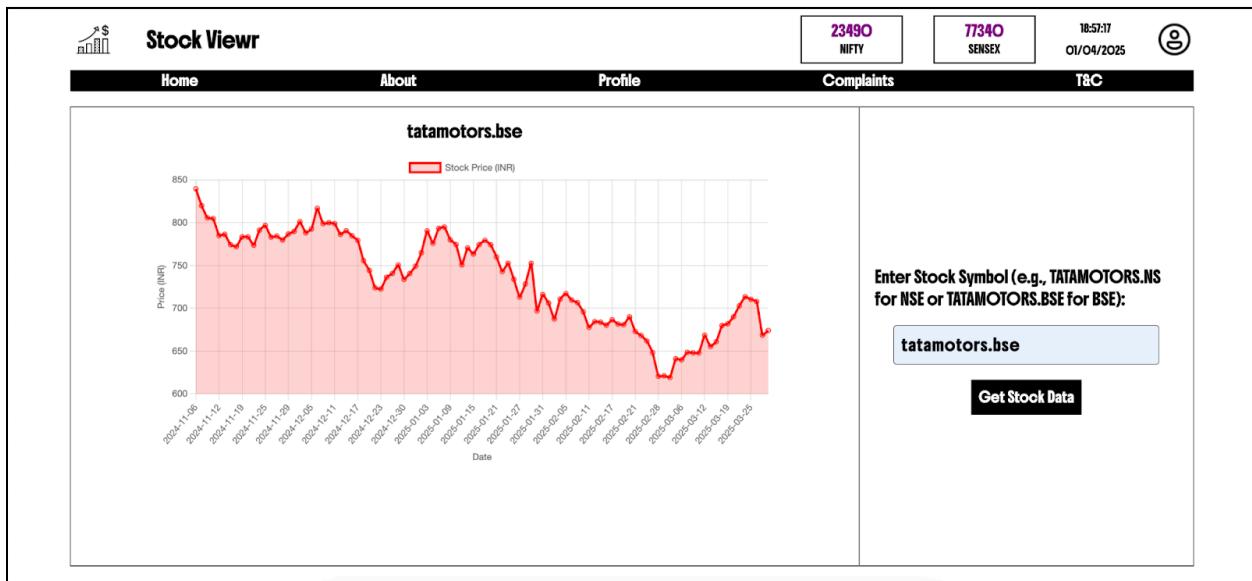
function displayError(message)
{
    const errorMessageDiv = document.getElementById('error-message');
    errorMessageDiv.textContent = message;
}
```

```
document.getElementById("getStockData").addEventListener("click", () => {
  const symbol = document.getElementById("symbol").value.trim();
  if (symbol)
  {
    document.getElementById("stock-name").innerHTML = symbol;
    fetchStockData(symbol);
  }
  else
  {
    displayError("Please enter a stock symbol.");
  }
}) ;

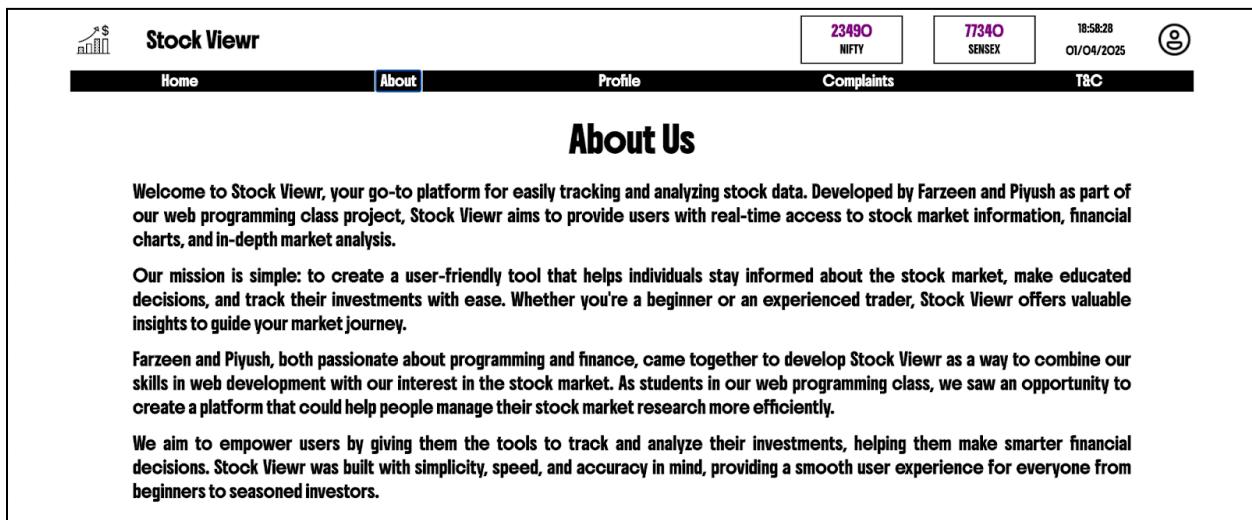
</script>
</html>
```

Website Images:

Home Page:



About Page:



Complaints Page:



Stock Viewr

Home About Profile **Complaints** T&C

23490
NIFTY

77340
SENSEX

18:59:01
01/04/2025

Complaints

Full Name:

Email:

Complaint:

Attach File (Optional):
 No file chosen

Submit

Terms and Condition Page:



Stock Viewr

Home About Profile **Complaints** T&C

23490
NIFTY

77340
SENSEX

18:59:44
01/04/2025

Terms and Conditions

Welcome to Stock Viewr, a stock viewing platform. By accessing or using our platform, you agree to comply with and be bound by the following Terms and Conditions. Please read them carefully. If you do not agree with any part of these terms, you must not use our platform.

1. Acceptance of Terms By using the Stock Viewr website and its associated services, you agree to comply with these Terms and Conditions. We reserve the right to update, modify, or amend these terms at any time, and such changes will be effective immediately upon posting to the platform. We encourage you to periodically review these Terms and Conditions to stay informed of any updates.

2. Services Provided Stock Viewr provides access to real-time stock data, financial charts, news, market analytics, and other stock-related information (the "Services"). We do not offer investment advice or recommendations, and the information provided on our platform is solely for informational purposes.

3. Use of the Platform You agree to use the platform and its Services for lawful purposes only. You must not:

- Violate any applicable laws or regulations.
- Engage in any conduct that could harm the platform's reputation or functionality.
- Attempt to access or manipulate any part of the platform's data or systems that you are not authorized to use.
- Use the platform to promote spam, viruses, or other harmful content.

4. Account Registration To access certain features or Services on the platform, you may be required to register for an account. You

Working:

We made this website purely using HTML, CSS and JavaScript. We made the entire frontend using html 'div' while using css properties of display like flex and block. We used a font called 'Boldonse' imported from Google fonts and imported it using CSS.

The "Stock Viewer" website serves as a comprehensive platform that allows users to access real-time stock information, learn about the service, understand the terms of use, and submit any complaints they might have.

Upon landing on the homepage, users are presented with a dynamic display of stock information, including stock names, symbols, and their current prices. This data is typically loaded through JavaScript, which ensures that users are always viewing the most up-to-date details. The homepage acts as a hub for stock watchers who want to quickly reference the market data for popular companies like Apple, Tesla, and Amazon. In addition to the stock data, the website provides a simple and intuitive navigation bar at the top, allowing users to seamlessly switch between other pages like the About page, which offers an overview of the platform's mission and goals.

The Terms & Conditions page outlines the legal disclaimers of using the platform, clarifying that the stock data is provided for informational purposes only and that the platform does not take responsibility for any financial decisions based on the information.

Furthermore, the Complaint Form page enables users to provide feedback or report issues with the service. The form asks for basic details such as the user's name, email, and the nature of their complaint, allowing the team behind Stock Viewer to address any

concerns. The website uses JavaScript not only for dynamically loading the stock data on the homepage but also for handling the submission of the complaint form, validating inputs, and providing feedback to users. This combination of real-time data presentation, informative pages, and user-friendly interaction creates an efficient and engaging experience for anyone interested in the stock market.

References:

Chart.js

<https://cdn.jsdelivr.net/npm/chart.js>

Font:

<https://fonts.googleapis.com/css2?family=Boldonse&display=swap>

Free Stock API:

<https://www.alphavantage.co/query>