Unicode Frontend Tasks 2024

Welcome to the awesome world of frontend development! As you start this exciting journey, you'll get to explore the creativity and innovation behind the web experiences we all love. Your mission is to create a smooth and engaging website that wows users and makes browsing a blast.
This task pdf is split into four tasks based on the tech stack (HTML, CSS, JavaScript and React). It's a perfect chance to sharpen your skills and make something cool. Let's dive in and build something amazing together!
P.S: Feel free to contact anyone of us in case of doubts ;)

Task 1: Restaurant Website UI Clone (HTML and CSS)

This task involves creating the user interface (UI) of a restaurant website using HTML and CSS. Focus on building a visually appealing and user-friendly design. Use the provided Figma link for design reference. Break it down further into subtasks:

a. **Homepage (Main Landing Page)**: Design the main landing page where users can see a search bar, list of restaurants, featured restaurants, and categories.

b. **About Us Page**: Create a page that provides information about the restaurant, its history, mission, and team.

c. **Reviews Page**: Design a page where users can read reviews from other customers and possibly leave their own reviews.

d. **Contact Us Page**: Create a page with a contact form where users can send inquiries or feedback. This page can be made on your own design. (bonus)

Note: Your web pages must be **mobile responsive** and you are **not allowed** to use ready-made templates that are available online. Use the design from the given Figma link to ensure consistency and visual appeal.

UI link: https://www.figma.com/design/bZ69xMBISoaIzJRVDpWtXx/Restaurant-website-Landing-Page-Design-(Community)?node-id=0-1&t=T6kC79ZcD0Yi32c8-1

Reference links:
https://www.w3schools.com/html/
https://www.w3schools.com/css/

Task 2: Weather App (HTML, CSS and JavaScript)

In this part, you'll enhance the frontend with interactivity using JavaScript. This will involve handling user interactions and dynamic updates on the website.
Though this task focuses more on your JavaScript approaches, your atrractive UI can surely get you some extra brownie points :)
Subtasks can include:

a. **Weather Data Fetching**: Implement functionality to fetch weather data from an API based on the input city.

b. **Temperature Conversion**: Allow users to toggle between Celsius and Fahrenheit for temperature readings.

c. **Search Functionality**: Add search functionality to allow users to look up weather information for different cities.

d. **Dynamic Updates**: Update the weather display dynamically based on the fetched data, showing current weather, forecasts, humidity, wind speed, etc.

e. **Favourite Locations**: Allow users to save their favourite locations and quickly access their weather information. (bonus)

f. **Current Location:** Ask for user's current location and show the weather of that city. (bonus)

(You are free to use your own Api, but do mention it in your task comments.)

API Link:
https://openweathermap.org/api

Reference links:
https://www.w3schools.com/js/

Task 3: Backend Integration

The task aims to implement frontend functionalities that fetch data from the backend APIs. By completing this task, users will be able to access a wide range of event information, including event details, available seats, and booking options. Seamless data retrieval will enhance the user experience and enable them to make informed decisions while booking tickets. Divide the tasks into:

a. **Creating API Functions:** Write JavaScript functions that use fetch to make HTTP requests to the backend API endpoints. Handle asynchronous behavior using async/await or Promises to ensure data retrieval does not block the application's execution.

b. **Fetching Event Data:** Implement a function to fetch a list of available events from the backend API. Display the event data on the frontend, showcasing essential details like event name, date, time, and location.

c. **Fetching Event Details:** Create a function to fetch detailed information about a specific event, using the unique event ID as a parameter. Display the event details on the frontend, including event description, ticket prices, and available seats.

d. **UI:** Display all the fetched details in the form of cards and make sure to add animations and transformations.

Reference links:
https://howtocreateapps.com/fetch-and-display-json-html-javascript/
https://learning.postman.com/docs/introduction/overview/

API link - https://se-tasks.vercel.app/events (for fetching events)
Postman collection - https://app.getpostman.com/run-collection/15528770-f6f62d0a-944f-4908-bb28-4502b6e45bdc?action=collection%2Ffork&source=rip_markdown&collection-url=entityId%3D15528770-f6f62d0a-944f-4908-bb28-4502b6e45bdc%26entityType%3Dcollection%26workspaceId%3D27685862-050f-45ea-83aa-c873c1705b4b (for other APIs)

Task 4: React

Your task is to create a working Calculator in React that performs basic arithmetic operations like add, subtract, multiply, divide, modulo, etc. (add more if you like), featuring a user-friendly interface and responsive design to enhance usability and efficiency.

Requirements:

1. **Basic Arithmetic Operations:** Implement basic arithmetic operations like addition, subtraction, multiplication, division, and modulo.

2. **User Interface:** Create a user-friendly interface that is intuitive and easy to navigate.

3. **Responsive Design:** Ensure the calculator is responsive, working seamlessly on various devices and screen sizes.

4. **Additional Features**: Optionally, add more advanced mathematical functions or additional features to enhance the calculator's functionality.

Bonus:
Read and implement the useState() hook.

Reference links:
https://youtube.com/playlist?list=PL4cUxeGkcC9gZD-Tvwfod2gaISzfRiP9d
https://reactjs.org/community/courses.html
https://reactjs.org/docs/hooks-intro.html

Important Notes -

- Feel free to use any CSS Framework/Libraries of your choice. Also, each task should be mobile-responsive.
- Please use the CSS BEM convention for the styling. Also, put comments wherever necessary. Refer to this link for the BEM convention and introduction: http://getbem.com/
- You have been given enough time so we expect you to complete at least the first three tasks. No problem if you can't complete them all but then you should understand that your chances of being selected decrease if you have completed a lesser number of tasks.
- You can also showcase your projects along with the compulsory tasks.
- You can also find useful resources related to Frontend on this repository: https://github.com/djunicode/resources
- We have provided you with the reference links within the tasks. If you have any further doubts about the implementation, you can refer to Stack-Overflow or just do a quick Google search for the same. If you are still confused about the problem statements or how to go about the tasks, refer to the contact list below.
- After you complete each task don't forget to push your code to GitHub using Git. Note that we should see what you'll have done throughout so don't push everything together (commit history). At a minimum, each task should be in its own commit i.e. we would like to see at minimum 4 commits, and more well-named commits are appreciated. Guide to Git: https://rogerdudler.github.io/git-guide/

Submission Details -

1. **Keep the tasks ready during your interview:** Bring these tasks and the projects you might have done during the Unicode interviews and we will review them. Make sure that servers (if used) are set up and ready before you join the call.

2. **Upload your code to a GitHub Repository:** Make a private repository on GitHub and upload the code there before the deadline. Create a README.MD file and write a small overview of what you have made along with the screenshots. Refer to this link for how to make a good README.md: Make a README.

3. **Make a Single Repository:** Your repository should contain the final code. There should not be different repositories for different tasks.

For any technical doubts related to the assignment, try to search for the problem (a quick Google always helps). If nothing works feel free to contact us.
(A good way to reach us would be messaging on WhatsApp and for any error-related queries sending a screenshot would be helpful)

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ALL THE BEST!