

Task - 3

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Task Title: Responsive TO-DO App

Task Description:

The third task involves developing a responsive TO-DO App using HTML, CSS and JavaScript. The web page includes greeting message for the day, category of the task, list of task to be completed and also the status of the task. The primary goal is to utilize HTML, CSS and JavaScript to create the TO-DO App and to design a user-friendly interface that allows users to manage their tasks seamlessly and also responsive across various devices. This project aims to showcase coding skills, creativity, and attention to detail.

Project Overview:

1. The project is a single web page containing different task and a text area to add custom tasks. The Add button lets the user to add the task to the list. We can add as many task as we have.
2. We can also categories the task as Business and Personal.
3. We have the facility to check the task in the list, edit them and remove them if we want.
4. We can view the overall task and also filter the task by their status
 - All
 - Completed
 - Uncompleted.
5. Also provided functionalities for saving tasks locally, which will allow users to revisit their tasks later.

i. Save Data to Local Storage

```
localStorage.setItem('todos', JSON.stringify(todos));
```

ii. Read Data From Local Storage

```
todos = JSON.parse(localStorage.getItem('todos'))
```

Steps Taken:

1. **HTML Structure:** Created the HTML structure ensuring semantic markup and accessibility standards. Used Various HTML tags to develop the layout of each element on a web page.
2. **CSS Styling:** Utilized CSS to style the HTML elements according to the design specifications including fonts, colors, backgrounds, spacing, pointer, border alignment.

3. **Responsive Design:** Implemented media queries, Grid and flexible layout techniques to ensure responsiveness across various devices and screen sizes.
4. **JavaScript:** Used JavaScript language to make web page interactive and execute complex actions. It allows us to dynamically update content without reloading the entire page and also used to create clickable Buttons, control multimedia.

Challenges Faced:

Responsive Layout: Adapting the design to ensure responsiveness across different devices posed a challenge, especially in handling complex layouts and interactions.

Solutions Implemented:

Media Queries, Grid and Flexbox Layout Module played a major role to make the web page responsive.

1. **Media Queries:** Implemented media queries to adjust layout and styling based on screen size, ensuring optimal display across devices.
2. **Grid Layout Module:** Implemented Grid Layout Module for space distribution.
3. **Flexbox Layout Module:** Implemented Flexbox Layout Module for arranging items in rows or columns. Flexbox offers space distribution between items and powerful alignment capabilities.

Learnings:

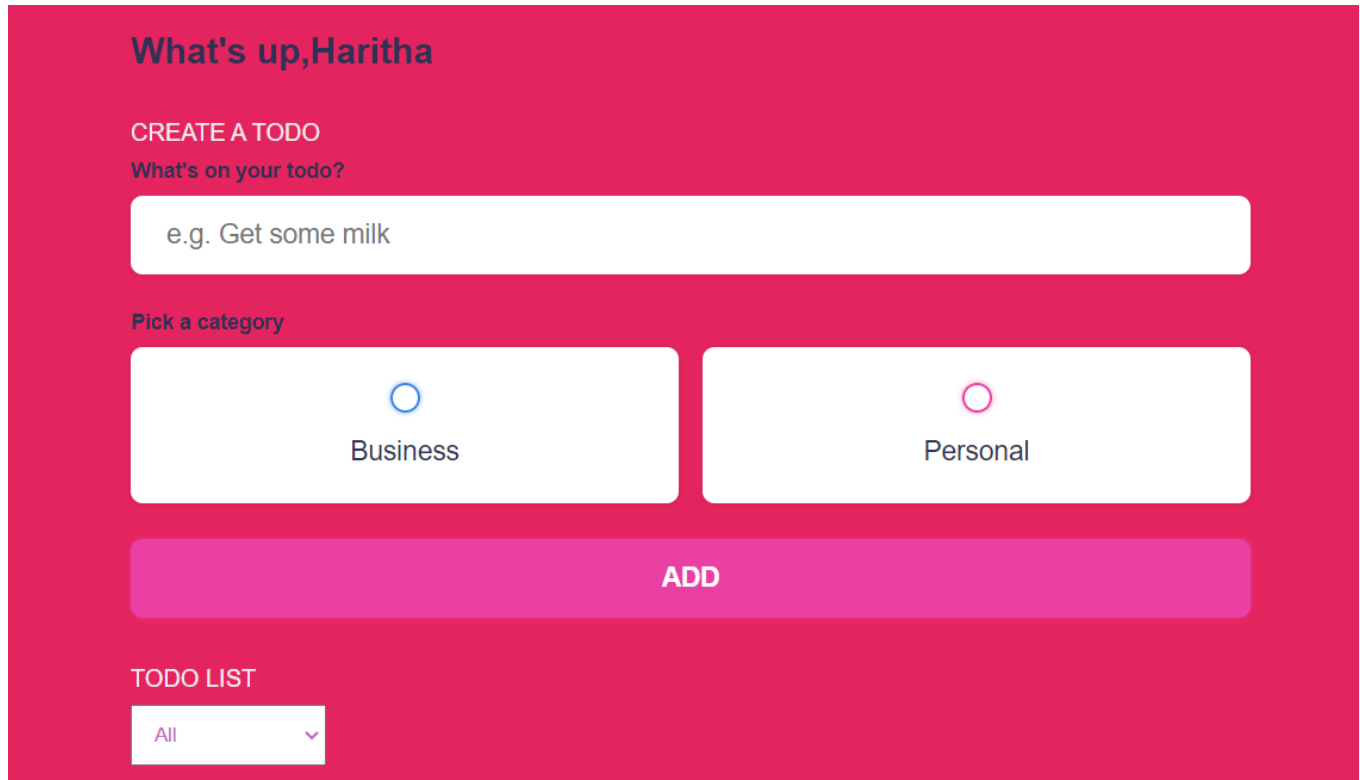
1. **HTML Structure:** Learned various HTML tag and its properties.
2. **CSS Techniques:** Learned advanced CSS techniques such as
 - **Flexbox Layout Module:** Used Flexbox to streamline page structure and enhance responsiveness.
 - **Grid Layout Module:** Also used Flexbox to streamline page structure and enhance responsiveness.
 - **Media Queries:** Gained a deeper understanding of responsive design principles and techniques for creating adaptable layouts using Media Queries.
 - **Transition:** Used Transition to change property values smoothly over a given duration
 - **Text-Transform:** Used to specify uppercase and lowercase letters in a text.
 - **Variable:** Used Variables to store and reuse the values and it makes the code more understandable
 - **Position:** Used Position property to specify the position an element.
3. **JavaScript:** Learned various JavaScript concept like Objects, Properties, Events Functions, Loops, Closures, Switch Statement, HTML DOM Elements and Methods.

Project Update:

The responsive TO-DO Web page has been successfully developed. The web page is developed with Hyper Text Markup Language(HTML), Cascading Style Sheets(CSS) and JavaScript. The page is fully functional and responsive, showcasing the information effectively across various devices and screen sizes.

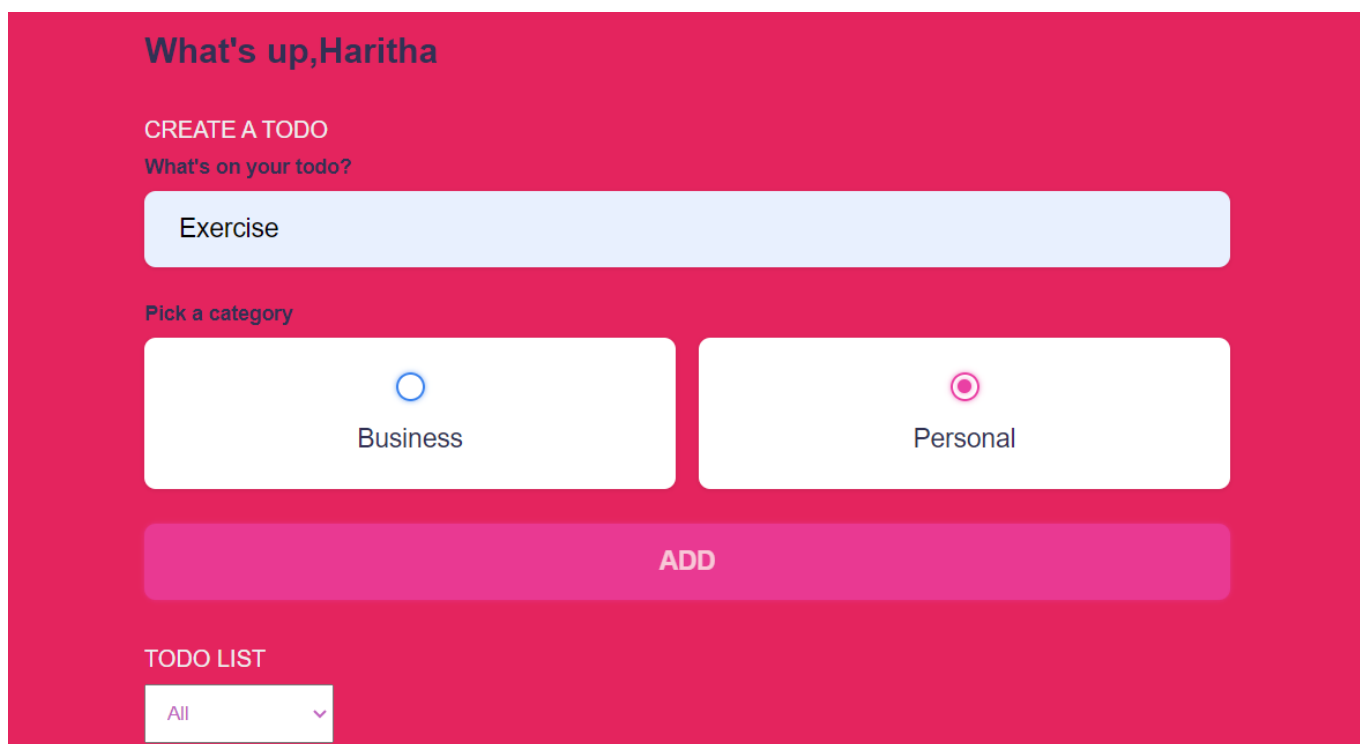
Project Images:

TO-DO project:



The screenshot shows the initial state of the TO-DO application. The header "What's up, Haritha" is in a dark blue font. Below it, the "CREATE A TODO" section has a placeholder text "What's on your todo?" and a text input field containing "e.g. Get some milk". The "Pick a category" section has two radio buttons: "Business" (selected) and "Personal". Below these is a large pink "ADD" button. At the bottom, the "TODO LIST" section has a dropdown menu currently set to "All".

Writing Task, Choosing Category and Submitting the Task using Add button:



The screenshot shows the TO-DO application after a task has been added. The text input field now contains "Exercise". The "Personal" radio button is selected. The "ADD" button remains visible. The "TODO LIST" dropdown menu is still set to "All".

Editing the Task using Edit button:

What's up,Haritha

CREATE A TODO

What's on your todo?

Pick a category

☐ Business

☐ Personal

ADD

TODO LIST

All ▾

☐ Exercise

EditDelete

Striking out the Task:

What's up,Haritha

CREATE A TODO

What's on your todo?

Pick a category

☐ Business

☐ Personal

ADD

TODO LIST

All ▾

☒ Exercise

EditDelete

Deleting the Task using delete button:

What's up, Haritha

CREATE A TODO

What's on your todo?

Pick a category

☐ Business

☐ Personal

ADD

TODO LIST

All ▾

☒ Exercise

EditDelete

Filtering the Status of the task:

TODO LIST

All ▾
All
Completed
Uncompleted

☐ Exercise

EditDelete

☒ Report

EditDelete

☐ Yoga

EditDelete

☐ Gym

EditDelete

☒ Task submission

EditDelete

Overall Task:

TODO LIST

All

☐ Skincare

EditDelete

☒ Report

EditDelete

☐ Yoga

EditDelete

☐ Gym

EditDelete

☒ Task-submission

EditDelete

Completed Task:

TODO LIST

Completed

☒ Report

EditDelete

☐ Yoga

EditDelete

☒ Task-submission

EditDelete

Uncompleted Task:

TODO LIST

Uncompleted

☐ Skincare

EditDelete

☐ Gym

EditDelete

Overall Project Image:

What's up,Haritha

CREATE A TODO

What's on your todo?

e.g. Get some milk

Pick a category

Business

Personal

ADD

TODOLIST

All

Report

EditDelete

Yoga

EditDelete

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