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Program: BS-IT

Course: Advance Web Technologies

Assignment # 3

To-Do List Application

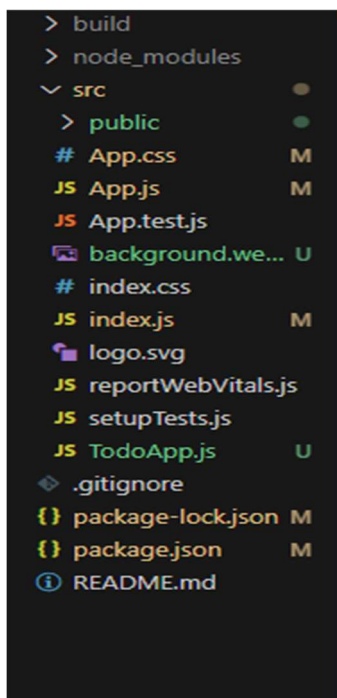
Introduction:

The To-Do List Application is a simple and intuitive tool for managing tasks. Users can add, edit, delete, and prioritize tasks to keep track of their to-do items effectively. The application is built using React and Material-UI, ensuring a modern and responsive user interface.

Features

1. Add New Tasks: Users can add new tasks with a specified priority (Low, Medium, High).
2. Edit Tasks: Users can edit the text and priority of existing tasks.
3. Delete Tasks: Users can delete tasks they no longer need.
4. Toggle Task Completion: Users can mark tasks as completed or incomplete.
5. Clear Completed Tasks: Users can clear all completed tasks with a single click.
6. Priority Levels: Tasks can be prioritized as Low, Medium, or High.
7. Responsive Design: The application is fully responsive, ensuring usability across different devices.

Folder Structure:



Code:

```
//src/App.css
body {
  margin: 0;
  padding: 0;
  font-family: 'Roboto', sans-serif;
  display: flex;
  flex-direction: column;
  min-height: 100vh;
}

header,
footer {
  width: 100%;
}

main {
  flex: 1;
}

.background-section {
  background-image: url('./background.webp');
  background-size: cover;
  background-repeat: no-repeat;
  background-position: center;
  padding: 4em 0;
}

.todo-container {
  background: rgba(255, 255, 255, 0.9);
  padding: 2em;
  border-radius: 8px;
  box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
  width: 100%;
  max-width: 600px;
  box-sizing: border-box;
  margin: 0 auto;
}

@media (max-width: 600px) {
  .todo-container {
    padding: 1em;
  }
}
```

```
// src/App.js
import React from 'react'
import TodoApp from './TodoApp'
import './App.css'

const App = () => {
  return (
    <div className="App">
      <TodoApp />
    </div>
  )
}

export default App
```

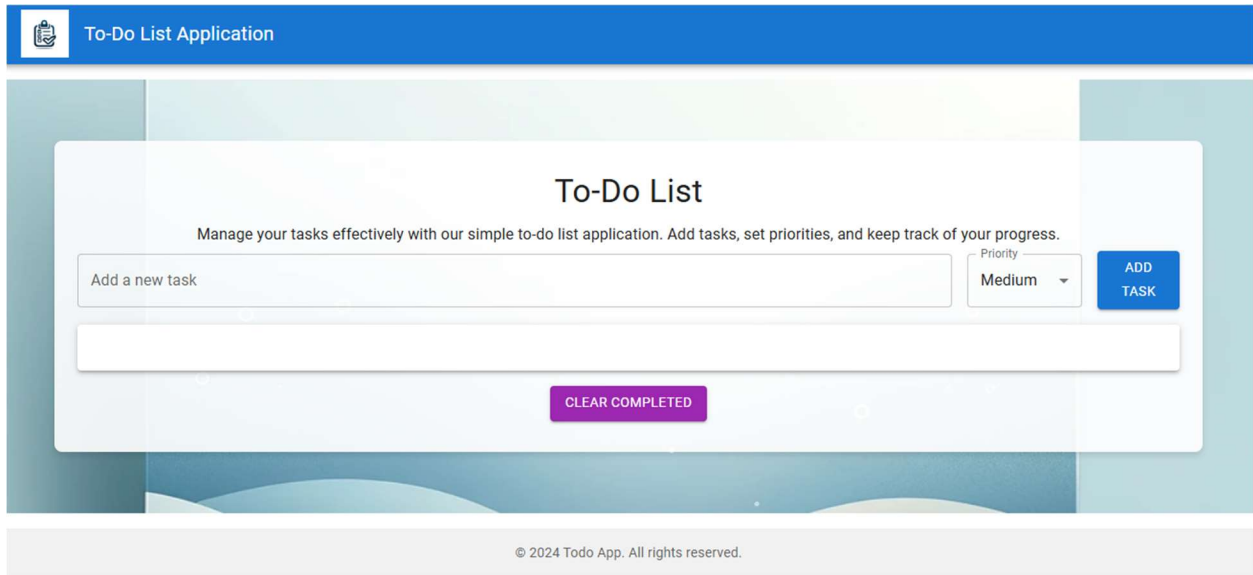
```
//src/ToDoApp.js
import React, { useState, useEffect } from 'react'
import {
  Container,
  TextField,
  Button,
  Checkbox,
  Paper,
  Typography,
  List,
  ListItem,
  ListItemText,
  ListItemSecondaryAction,
  IconButton,
  Select,
  MenuItem,
  FormControl,
  InputLabel,
  Box,
  AppBar,
  Toolbar,
  CssBaseline,
} from '@mui/material'
import DeleteIcon from '@mui/icons-material/Delete'
import EditIcon from '@mui/icons-material/Edit'
import CheckIcon from '@mui/icons-material/Check'
import CloseIcon from '@mui/icons-material/Close'
import { styled } from '@mui/system'
import { CSSTransition, TransitionGroup } from 'react-transition-group'
import './App.css'

const Header = styled(AppBar)({
  marginBottom: '1em',
})

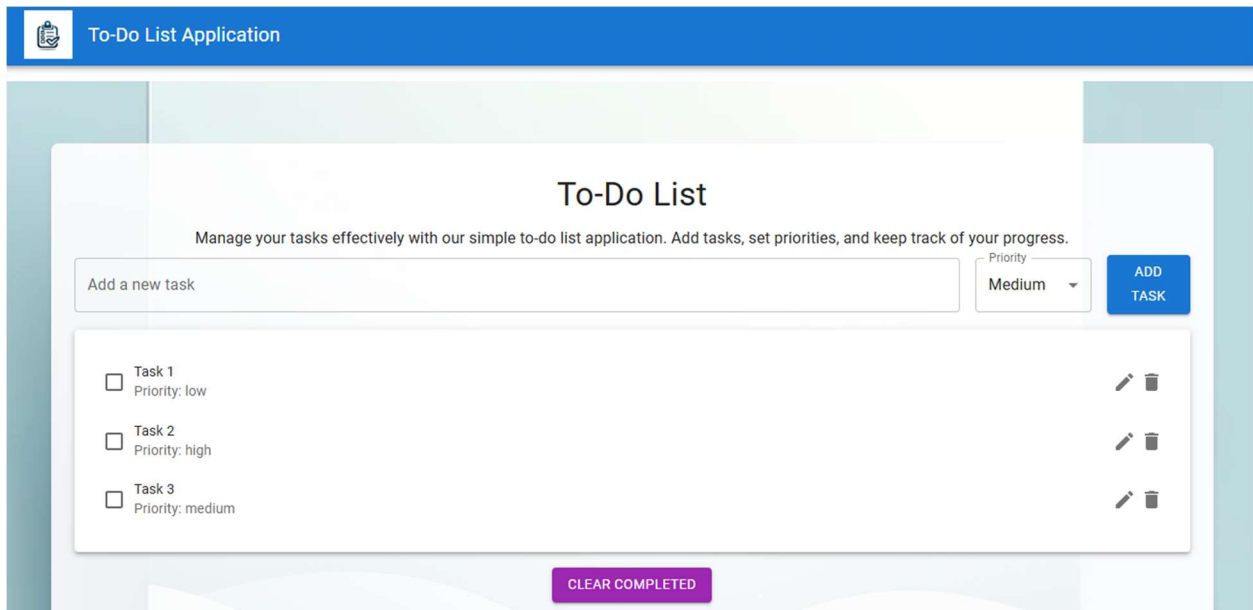
const Footer = styled(Box)({
  marginTop: '1em',
  padding: '1em',
  backgroundColor: '#f1f1f1',
  textAlign: 'center',
  width: '100%',
})

const Logo = styled('img')({
  width: '50px',
})
```

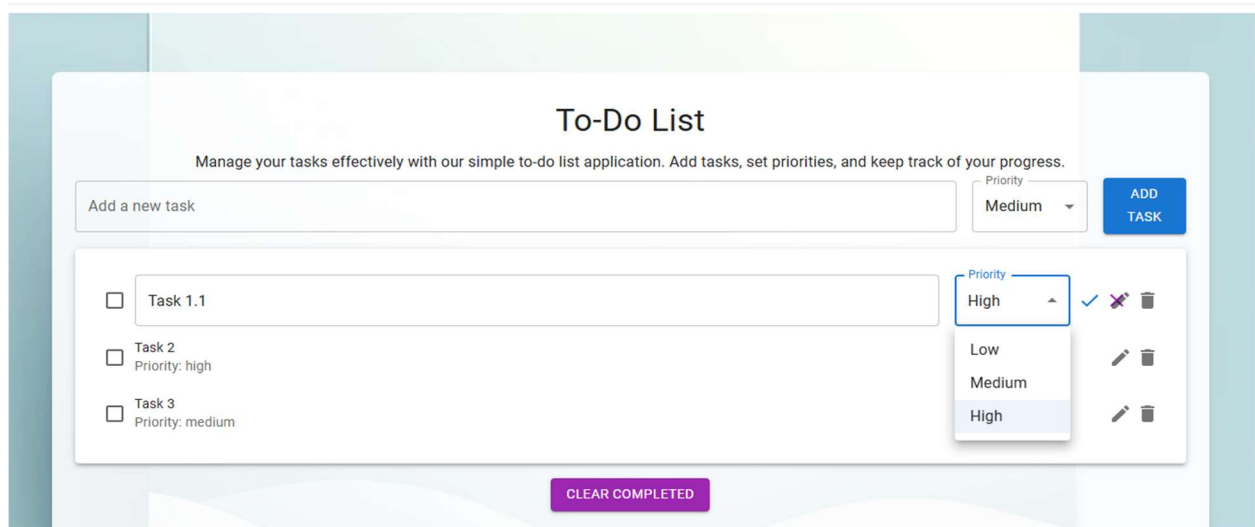
Screenshots:



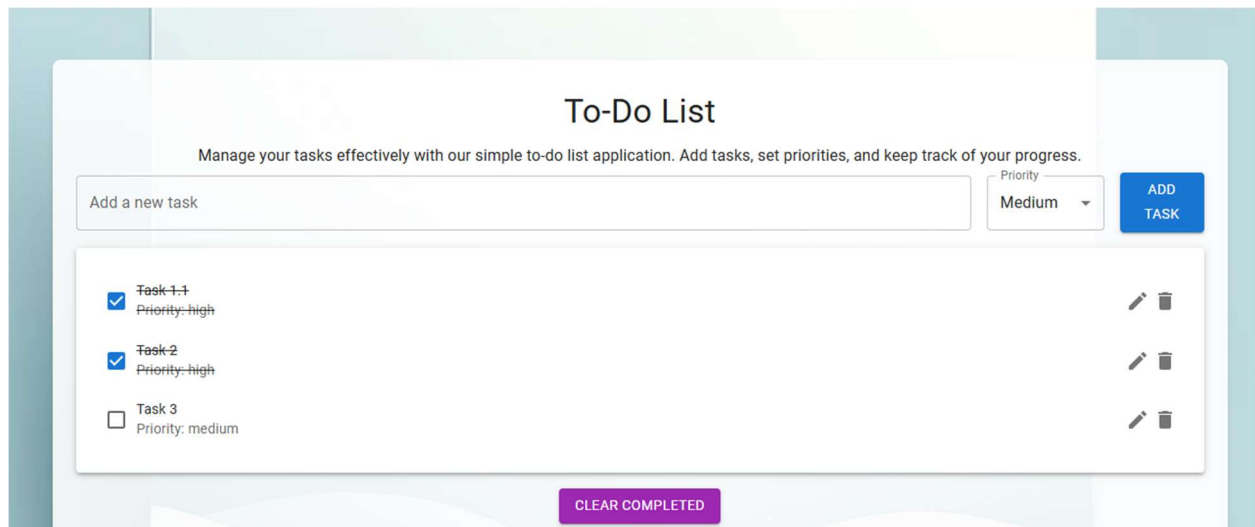
Add Tasks:



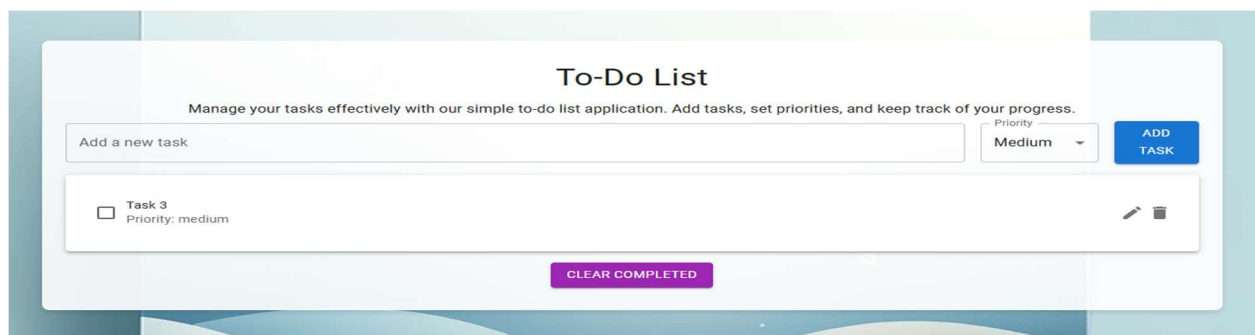
Edit Tasks:



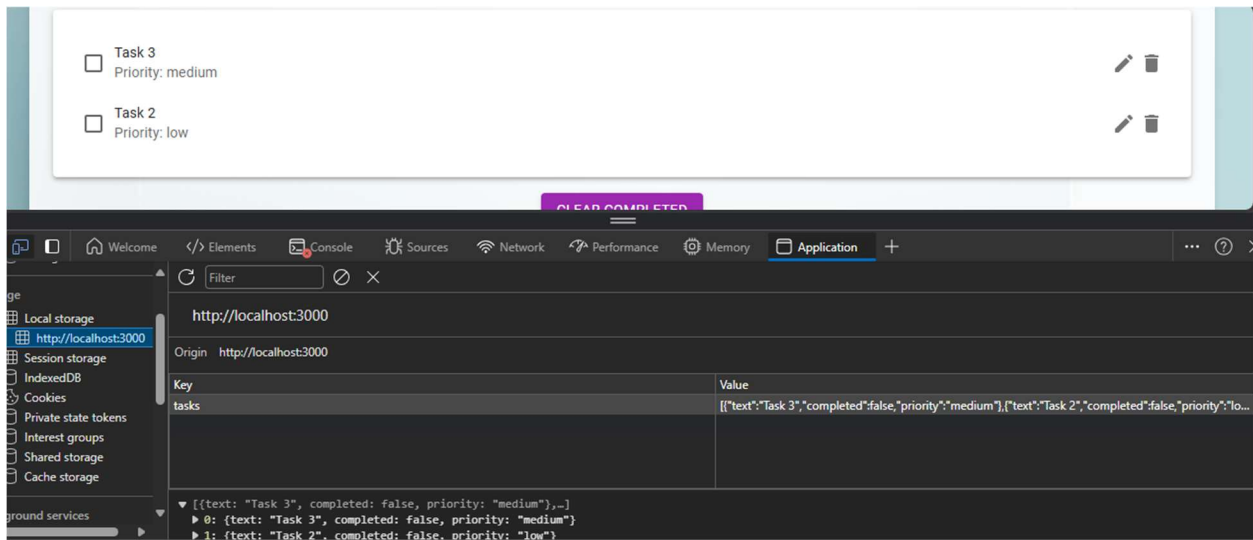
Completed Tasks:



Clear Completed Tasks:



Local Storage:



GitHub Link: [hamzaawan26/Assignment-3 \(github.com\)](https://github.com/hamzaawan26/Assignment-3)