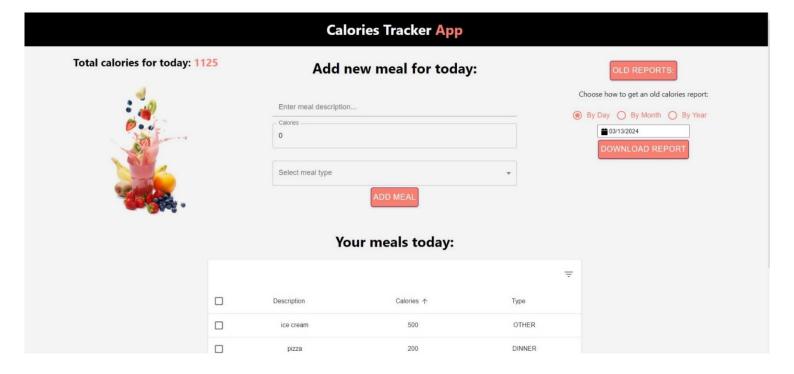
Calorie Management Client Application

Final Project in Front-End Development

Submitted by:

| Name | ID | Email | Mobile Number |
|---------------|-----------|--------------------------|------------------|
| Daniella Boaz | 209371913 | Daniellaboaz22@gmail.com | 0549000716 |
| Gal Kalev | 318657632 | galk2508@gmail.com | 0526262143 |



Web Page:

https://daniellaboaz.github.io/Calorie_Management-_App/

Video Link:

https://youtu.be/k3c6b1xiDbU

GitHub Link:

https://github.com/daniellaboaz/Calorie_Management-_App.git

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Src folder:

App.js:

```
// Daniella Boaz (209371913), Gal Kalev (318657632)
//src/App.js
// External libraries
import React, { useState, useEffect } from 'react';
import idb from './idb';
import 'react-calendar/dist/Calendar.css';
import Button from '@mui/material/Button';
//import components:
import CalendarShow from './components/CalendarShow';
import OldMealsReport from './components/OldMealsReport';
import Navbar from './components/Navbar';
import ShowMealsOfToday from './components/ShowMealsOfToday';
import fetchAttributesForDate from './components/DataService';
import ErrorHandling from './components/ErrorClass';
import ControlsCounter from './components/ControlsCounter';
// Controls for adding new meals:
import ControlsInput from './components/ControlsInput';
import './App.css';
// in this the main page where we fetch the data from idb
const App = () \Rightarrow \{
 const [meals, setMeals] = useState([]);
 const [calories, setMealCalories] = useState(0);
 const [mealType, setMealType] = useState(null);
 const [mealDescripton, setMealDescripton] = useState('');
 const [totalCalories, setTotalCalories] = useState(0);
 const [showMealsReport, setShowMealsReport] = useState(false);
 const [selectedAttributes, setSelectedAttributes] = useState(null);
  // Fetch meals of today from the database and display them
 const fetchMeals = async () => {
    try {
      console.log('Fetching meals for today...');
      await idb.openCaloriesDB('caloriesdb', 1);
      const today = new Date();
      today.setHours(0, 0, 0, 0);
      const mealsToday = await fetchAttributesForDate(today, setSelectedAttributes, 'today');
      console.log('Meals fetched for today:', mealsToday);
     if (mealsToday && mealsToday.length > 0) {
        const sumCalories = mealsToday.reduce((total, meal) =>
          total + (parseInt(meal.calorie, 10) || 0), 0);
        setMeals(mealsToday);
        setTotalCalories(sumCalories);
      } else {
        console.log('No meals recorded for today.');
```



```
setMeals([]);
      setTotalCalories(0);
  } catch (error) {
    console.error('Error fetching meals for today:', error);
    throw new ErrorHandling('fetch');
};
//upload the data after refreshing the page
useEffect(() => {
  fetchMeals(); // Fetch meals when the component mounts
}, []);
//add a new meal today and display
const onAddMealsClick = async () => {
  if (calories <= 0 || mealType === null || mealDescripton === '') {</pre>
    alert('Input must not be empty or is illegal');
    return;
  } try {
    await idb.openCaloriesDB('caloriesdb', 1);
    const today = new Date();
    today.setHours(0, 0, 0, 0);
    const formattedDate = today.toISOString().split('T')[0];
    await idb.addCalories({
      calorie: calories,
      category: mealType,
      description: mealDescripton,
      date: formattedDate,
    });
    // Call the fetchMeals directly after adding a new meal to display it
    await fetchMeals();
  } catch (error) {
    console.error(error);
    throw ErrorHandling('addMeal');
  setMealCalories(0);
  setMealDescripton('');
  setMealType('');
};
//delete a meal from the list and the database
const deleteMeal = async (mealId) => {
  try {
    await idb.openCaloriesDB('caloriesdb', 1);
    await idb.deleteCalorie(mealId);
    setShowMealsReport(false);
    // Fetch meals again after deletion
    await fetchMeals();
  } catch (error) {
```

```
console.error(error);
   throw ErrorHandling('delete');
};
//Show/hide calendar on button click
const clickToShowCalendar = () => {
 const calendarContainer = document.getElementsByClassName('calendar-container')[0];
 if (calendarContainer) {
   if (calendarContainer.style.display === 'none') {
     calendarContainer.style.display = 'block';
     setShowMealsReport(false); // Hide meals report when showing calendar
     calendarContainer.style.display = 'none';
   };
 };
};
return (
 <div className='App_home'>
   <Navbar />
   {/*divide the page to 3 equal sections*/}
     {/*display total calories of today*/}
           <ControlsCounter totalCalories={totalCalories} />
         {/* Controls for adding new meals*/}
          <ControlsInput</pre>
            calories={calories}
            mealDescripton={mealDescripton}
            mealType={mealType}
            setMealCalories={setMealCalories}
            setMealDescripton={setMealDescripton}
            setMealType={setMealType}
            onAddMealsClick={onAddMealsClick}
         {/* calander for old meald report*/}
           <div className='app_constrols_report'>
            <Button className='btn' onClick={clickToShowCalendar} variant='contained'</pre>
              color='primary' sx={{ marginTop: '10px', marginBottom: '10px' }}>
              Old reports:
            </Button>
            <CalendarShow
              setShowMealsReport={setShowMealsReport}
              setSelectedAttributes={setSelectedAttributes}
           </div>
```

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idb.js:

```
Daniella Boaz (209371913), Gal Kalev (318657632)
const idb = {
 db: null,
 // Open or create the IndexedDB database for the calories database.
 openCaloriesDB: async (dbName, version) => {
    return new Promise((resolve, reject) => {
      const request = indexedDB.open(dbName, version);
      request.onerror = (event) => {
        reject(`Error opening database: ${event.target.error}`);
      };
     request.onupgradeneeded = (event) => {
       const db = event.target.result;
       // Create an object store if it doesn't already exist
       if (!db.objectStoreNames.contains('caloriesdb')) {
          db.createObjectStore('caloriesdb', { keyPath: 'id', autoIncrement: true });
      };
      request.onsuccess = (event) => {
        idb.db = event.target.result;
        resolve(idb);
      };
   });
  },
 // Add calories data to the IndexedDB.
 addCalories: async (caloriesData) => {
   return new Promise((resolve, reject) => {
      if (!idb.db) {
        reject('Database is not initialized');
       return;
      const transaction = idb.db.transaction(['caloriesdb'], 'readwrite');
     const store = transaction.objectStore('caloriesdb');
      // Add the current date to the caloriesData object
     const currentDate = new Date().toISOString();
      caloriesData.date = currentDate;
     const request = store.add(caloriesData);
     request.onsuccess = (event) => {
       resolve(event.target.result);
      };
      request.onerror = (event) => {
       reject(`Error adding calories: ${event.target.error}`);
      };
   });
  },
```

```
// Retrieve all calories data from data base.
  async getAllCalories() {
    return new Promise((resolve, reject) => {
     if (!idb.db) {
        reject('Database is not initialized');
        return;
      const transaction = idb.db.transaction(['caloriesdb'], 'readonly');
      const store = transaction.objectStore('caloriesdb');
      const request = store.getAll();
      request.onsuccess = (event) => {
        resolve(event.target.result);
      request.onerror = (event) => {
        reject(`Error getting calories: ${event.target.error}`);
      };
    });
  },
  async deleteCalorie(calorieId) {
    return new Promise((resolve, reject) => {
     if (!idb.db) {
        reject('Database is not initialized');
        return;
      const transaction = idb.db.transaction(['caloriesdb'], 'readwrite');
      const store = transaction.objectStore('caloriesdb');
      const request = store.delete(calorieId);
      request.onsuccess = (event) => {
        resolve(event.target.result);
      };
      request.onerror = (event) => {
        reject(`Error deleting calorie: ${event.target.error}`);
      };
    });
};
export default idb;
```



Src/Components folder:

CalendarShow.is:

```
// Daniella Boaz (209371913), Gal Kalev (318657632)
// src/components/CalendarShow.js
// calendar to get a report of specific date
import React, { useState } from 'react';
import '../App.css';
import fetchAttributesForDate from './DataService';
import ErrorHandling from './ErrorClass';
//Import from MUI
import Button from '@mui/material/Button';
import Radio from '@mui/material/Radio';
import RadioGroup from '@mui/material/RadioGroup';
import FormControlLabel from '@mui/material/FormControlLabel';
import FormControl from '@mui/material/FormControl';
import DatePicker from 'react-datepicker';
import 'react-datepicker/dist/react-datepicker.css';
// React Date Picker calendar formatted as 'DD/MM/YYYY'
const ByDayCalendar = ({ selectedDate, setSelectedDate }) => {
    return (
        <DatePicker</pre>
            className='cal-style'
            showIcon
            maxDate={new Date()}
            selected={selectedDate}
            onChange={(date) => setSelectedDate(date)}
    );
};
// React Date Picker calendar formatted as 'MM/YYYY'
const ByMonthCalendar = ({ selectedDate, setSelectedDate }) => {
    return (
        <DatePicker</pre>
            className='cal-style'
            showIcon
            maxDate={new Date()}
            selected={selectedDate}
            onChange={(date) => setSelectedDate(date)}
            dateFormat='MM/yyyy'
            excludeDates={[
                1661990400000, 1664582400000, 1667260800000, 1672531200000,
            showMonthYearPicker
    );
};
```

```
const ByYearCalendar = ({ selectedDate, setSelectedDate }) => {
    return (
        <DatePicker</pre>
            className='cal-style'
            showIcon
            maxDate={new Date()}
            selected={selectedDate}
            onChange={(date) => setSelectedDate(date)}
            showYearPicker
            dateFormat='yyyy'
    );
};
const CalendarShow = ({ setShowMealsReport, setSelectedAttributes }) => {
    const [selectedDate, setSelectedDate] = useState(new Date());
    const [selectedView, setSelectedView] = useState('');
    const selectDate = async () => {
        try {
            // Fetch meals for the selected date based on the selectedView
            await fetchAttributesForDate(selectedDate, setSelectedAttributes, selectedView);
            setShowMealsReport(true);
            // Hide the calendar after selecting a date
            document.getElementsByClassName('calendar-container')[0].style.display = 'none';
        } catch (error) {
            console.error('Error fetching attributes:', error);
           throw new ErrorHandling('fetch');
    };
    return (
        <div className='calendar-container' style={{ display: 'none' }}>
            Choose how to get an old calories report:
            <FormControl component='fieldset'>
                {/* Radio buttons to choose the preferred calendar*/}
                <RadioGroup
                    row
                    aria-labelledby='demo-row-radio-buttons-group-label'
                    name='row-radio-buttons-group'
                    value={selectedView}
                    onChange={(event) => setSelectedView(event.target.value)}
                    <FormControlLabel</pre>
                        value='byDay'
                        control={<Radio name='cal' />}
                        label='By Day'
```

```
<FormControlLabel</pre>
                         value='byMonth'
                         control={<Radio name='cal' />}
                         label='By Month'
                     <FormControlLabel</pre>
                         value='byYear'
                         control={<Radio name='cal' />}
                         label='By Year'
                </RadioGroup>
            </FormControl>
            {/* Show the calendar by the user preference */}
            <div className='cal-container'</pre>
            style={{ display: selectedView === 'byDay' ? 'block' : 'none' }}>
                <ByDayCalendar selectedDate={selectedDate} setSelectedDate={setSelectedDate} />
            </div>
            <div className='cal-container'</pre>
            style={{ display: selectedView === 'byMonth' ? 'block' : 'none' }}>
              <ByMonthCalendar selectedDate={selectedDate} setSelectedDate={setSelectedDate} />
            </div>
            <div className='cal-container'</pre>
            style={{ display: selectedView === 'byYear' ? 'block' : 'none' }}>
               <ByYearCalendar selectedDate={selectedDate} setSelectedDate={setSelectedDate} />
            </div>
            <Button className='btn'
            onClick={selectDate}
            variant='contained'
            sx={{ marginTop: '20px' }}>
                Download report
            </Button>
        </div>
    );
};
export default CalendarShow;
```



ControlsCounter.js:



ControlsInput.js:

```
// src/components/ControlsInput.js
// Controls for adding new meals
import React from 'react';
//Material-UI imports and styling:
import TextField from '@mui/material/TextField';
import Button from '@mui/material/Button';
import { FormControl, InputLabel, Select, MenuItem, Input } from '@mui/material';
import '../App.css';
const ControlsInput = ({
  calories,
 mealDescripton,
 mealType,
 setMealCalories.
 setMealDescripton,
 setMealType,
 onAddMealsClick,
}) => {
 return (
    <div className='app_constrols_Input_muster'>
      <div className='app_constrols_Input'>
        <h1>Add new meal for today:</h1>
        {/*adding meal description */}
        <FormControl fullWidth sx={{ marginTop: '20px' }} >
          <InputLabel htmlFor='meal-des'>Enter meal description...</InputLabel>
          <Input sx={{ textAlign: 'center' }}</pre>
            type='text'
            placeholder='Enter meal description...'
            value={mealDescripton}
            onChange={(e) => setMealDescripton(e.target.value)}></Input>
        </FormControl>
        {/*adding meal calories */}
        <TextField type='number' label='Calories' inputProps={{ min: 0 }}
          value={calories} onChange={(e) => setMealCalories(e.target.value)}
          fullWidth margin='normal' />
        {/*adding meal type */}
        <FormControl fullWidth sx={{ marginTop: '20px', marginLeft: 0 }}>
          <InputLabel id='meal-type-placeholder' htmlFor='meal-name'>
            Select meal type
          </InputLabel>
          <Select
            labelId='meal-type-placeholder'
            value={mealType | | ''}
            onChange={(e) => setMealType(e.target.value)}
            label='Select meal type'
            fullWidth
            <MenuItem value='BREAKFAST'>BREAKFAST//MenuItem>
            <MenuItem value='LUNCH'>LUNCH</MenuItem>
```

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```
<MenuItem value='DINNER'>DINNER</MenuItem>
            <MenuItem value='OTHER'>OTHER</MenuItem>
          </Select>
        </FormControl>
      </div>
      {/*adding meal to the database and display it in the list*/}
      <Button
        className='btn'
        onClick={onAddMealsClick}
        variant='contained'
        color='primary'
        sx={{ marginTop: '20px' }}>
        Add Meal
      </Button>
    </div>
};
export default ControlsInput;
```



DataService.js:

```
// src/components/DataService.js
import idb from '../idb';
import ErrorHandling from './ErrorClass';
const fetchAttributesForDate = async (selectedDate, setSelectedAttributes, selectedView) => {
    try {
        const selectedYear = selectedDate.getFullYear();
        const selectedMonth = selectedDate.getMonth() + 1;
        const selectedDay = selectedDate.getDate();
        const attributes = await idb.getAllCalories();
        let filteredAttributes:
        if (selectedView) { // Filter the meals based on the calendar view
            switch (selectedView) {
                case 'today':
                case 'byDay':
                    filteredAttributes = attributes.filter((item) => {
                        const itemDate = new Date(item.date);
                        const itemYear = itemDate.getFullYear();
                        const itemMonth = itemDate.getMonth() + 1;
                        const itemDay = itemDate.getDate();
                        return selectedYear === itemYear &&
                            selectedMonth === itemMonth &&
                            selectedDay === itemDay;
                    });
                    break;
                case 'byMonth':
                    filteredAttributes = attributes.filter((item) => {
                        const itemDate = new Date(item.date);
                        const itemYear = itemDate.getFullYear();
                        const itemMonth = itemDate.getMonth() + 1;
                        return selectedYear === itemYear &&
                            selectedMonth === itemMonth;
                    });
                    break;
                case 'byYear':
                    filteredAttributes = attributes.filter((item) => {
                        const itemDate = new Date(item.date);
                        const itemYear = itemDate.getFullYear();
                        return selectedYear === itemYear;
                    });
                    break;
                default:
                    break;
```



Navbar.js:

OldMealsReport.js:

```
// src/components/OldMealsReport.js
// show the report from the day selected
import React, { useState } from 'react';
import Button from '@mui/material/Button';
import '../App.css';
import EnhancedTable from './MUI EnhancedTable';
const OldMealsReport = ({ selectedAttributes, deleteMeal }) => {
    // Show only if there is a report
    const [isReportVisible, setReportVisibility] = useState(true);
    if (selectedAttributes && selectedAttributes.length > 0 && isReportVisible) {
        // Get the first date of the selected report
        const firstSelectedDate = new Date(selectedAttributes[0].date);
        const lastSelectedDate =
            new Date(selectedAttributes[selectedAttributes.length - 1].date);
        const firstDay = firstSelectedDate.getDate().toString().padStart(2, '0');
        const lastDay = lastSelectedDate.getDate().toString().padStart(2, '0');
        const firstMonth = (firstSelectedDate.getMonth() + 1).toString().padStart(2, '0');
        const lastMonth = (lastSelectedDate.getMonth() + 1).toString().padStart(2, '0');
        const firstYear = firstSelectedDate.getFullYear();
        const lastYear = lastSelectedDate.getFullYear();
        let formattedDate;
        // Setting 'formattedDate' based of the range of the selected date
        if (firstDay === lastDay && firstMonth === lastMonth && firstYear === lastYear) {
            formattedDate = `${firstDay}/${firstMonth}/${firstYear}`;// By day
        else if (firstDay !== lastDay && firstMonth === lastMonth && firstYear === lastYear) {
            formattedDate = `${firstDay}-${lastDay}/${firstMonth}/${firstYear}`;// By month
        else if (firstDay !== lastDay && firstMonth !== lastMonth && firstYear === lastYear) {
            formattedDate = `${firstDay}/${firstMonth}-${lastDay}/${lastMonth}/${firstYear}`;
            // By year
        return (
            <div>
                <div className='app_meals_container_wrapper'>
                    <h1>Meals Report from: {formattedDate}</h1>
                </div>
                <div className='app_meals_container_wrapper' >
                    {/* Show a list of old reports in table */}
                    <EnhancedTable rows={selectedAttributes} deleteMeal={deleteMeal} />
```

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ShowMealsOfToday.js:



ErrorClass is:

```
// Daniella Boaz (209371913), Gal Kalev (318657632)
//src/components/ErrorClass.js
class ErrorHandling extends Error {
    constructor(action) {
        let message;
        switch (action) {
            case 'fetch':
                message = 'Error fetching data';
            case 'delete':
                message = 'Error deleting data';
                break;
            case 'addMeal':
                message = 'Error adding meal to data';
            default:
                message = 'An error occurred';
        super(message);
        this.name = this.constructor.name;
export default ErrorHandling;
```



MUI_EnhancedTable.js:

```
Daniella Boaz (209371913), Gal Kalev (318657632)
// src/components/MUI_EnhancedTable.js
// The table that displaying the meals description, type and calories for today and for old
report
import React from 'react';
// Material-UI imports and styling:
import PropTypes from 'prop-types';
import { alpha } from '@mui/material/styles';
import Box from '@mui/material/Box';
import Table from '@mui/material/Table';
import TableBody from '@mui/material/TableBody';
import TableCell from '@mui/material/TableCell';
import TableContainer from '@mui/material/TableContainer';
import TableHead from '@mui/material/TableHead';
import TablePagination from '@mui/material/TablePagination';
import TableRow from '@mui/material/TableRow';
import Toolbar from '@mui/material/Toolbar';
import Typography from '@mui/material/Typography';
import Paper from '@mui/material/Paper';
import Checkbox from '@mui/material/Checkbox';
import IconButton from '@mui/material/IconButton';
import Tooltip from '@mui/material/Tooltip';
import DeleteIcon from '@mui/icons-material/Delete';
// Function to get set the order when sorting the columns
function descendingComparator(a, b, orderBy) {
  if (b[orderBy] < a[orderBy]) {</pre>
    return -1;
 if (b[orderBy] > a[orderBy]) {
    return 1;
  return 0;
// Function that gets the comparator based on the order and orderBy
function getComparator(order, orderBy) {
 return order === 'desc'
    ? (a, b) => descendingComparator(a, b, orderBy)
    : (a, b) => -descendingComparator(a, b, orderBy);
// unction to stabilize sorting order
function stableSort(array, comparator) {
 const stabilizedThis = array.map((el, index) => [el, index]);
 stabilizedThis.sort((a, b) => {
    const order = comparator(a[0], b[0]);
    if (order !== 0) {
      return order;
```

```
return a[1] - b[1];
  return stabilizedThis.map((el) => el[0]);
// Define the columns and by the meals attributes (description, type and calories)
const headCells = [
    id: 'des',
    numeric: true,
    disablePadding: false,
    label: 'Description',
    id: 'calories',
    numeric: true,
    disablePadding: false,
    label: 'Calories',
  },
    id: 'type',
    numeric: true,
    disablePadding: false,
    label: 'Type',
  },
// Component for the table header
function EnhancedTableHead(props) {
  const { onSelectAllClick, order, orderBy, numSelected, rowCount } =
    props;
return (
  <TableHead>
    <TableRow>
      <TableCell padding='checkbox'>
        <Checkbox
          color='primary'
          indeterminate={numSelected > 0 && numSelected < rowCount}</pre>
          checked={rowCount > 0 && numSelected === rowCount}
          onChange={onSelectAllClick}
          inputProps={{
            'aria-label': 'select all desserts',
          }}
      </TableCell>
      {headCells.map((headCell) => (
        <TableCell
          key={headCell.id}
          align='center'
          sortDirection={orderBy === headCell.id ? order : false}
```

```
{headCell.label}
        </TableCell>
      ))}
    </TableRow>
  </TableHead>
);
// Prop types for EnhancedTableHead component
EnhancedTableHead.propTypes = {
  numSelected: PropTypes.number.isRequired,
  onRequestSort: PropTypes.func.isRequired,
  onSelectAllClick: PropTypes.func.isRequired,
  order: PropTypes.oneOf(['asc', 'desc']).isRequired,
  orderBy: PropTypes.string.isRequired,
  rowCount: PropTypes.number.isRequired,
};
// Component for the toolbar above the table
function EnhancedTableToolbar(props) {
  const { numSelected, deleteMeal, selected, setSelected } = props;
  const deleteMealFromTable = () => {
    selected.forEach((item) => {
      deleteMeal(item);
    });
    setSelected([]);
return (
  <Toolbar
    SX = \{ \{ \}
      pl: { sm: 2 },
      pr: { xs: 1, sm: 1 },
      ...(numSelected > 0 && {
        bgcolor: (theme) =>
          alpha(theme.palette.primary.main, theme.palette.action.activatedOpacity),
      }),
    }}
    {numSelected > 0 ? (
      <Typography</p>
        sx={{ flex: '1 1 100%' }}
        color='inherit'
        variant='subtitle1'
        component='div'
        {numSelected} selected
      </Typography>
```

```
<Typography
        sx={{ flex: '1 1 100%' }}
        variant='h6'
        id='tableTitle'
        component='div'
      </Typography>
    )}
    {numSelected > 0 && (
      <Tooltip title='Delete'>
        <IconButton onClick={deleteMealFromTable}>
          <DeleteIcon />
        </IconButton>
      </Tooltip>
    )}
  </Toolbar>
);
// Prop types for EnhancedTableToolbar component
EnhancedTableToolbar.propTypes = {
  numSelected: PropTypes.number.isRequired,
};
// Main EnhancedTable component
function EnhancedTable(props) {
  const [order, setOrder] = React.useState('asc');
  const [orderBy, setOrderBy] = React.useState('calories');
  const [selected, setSelected] = React.useState([]);
  const [page, setPage] = React.useState(0);
  const [rowsPerPage, setRowsPerPage] = React.useState(5);
  let { rows } = props;
  // Reverse the order of the rows so it will show last meal at the top of the table
  const rowsR = React.useMemo(() => {
    return [...rows].reverse();
  }, [rows]);
  // Event handler for sorting
  const handleRequestSort = (event, property) => {
    const isAsc = orderBy === property && order === 'asc';
    setOrder(isAsc ? 'desc' : 'asc');
    setOrderBy(property);
  };
  // Event handler for selecting all rows
  const handleSelectAllClick = (event) => {
    if (event.target.checked) {
      const newSelected = rowsR.map((n) => n.id);
```

```
setSelected(newSelected);
     return;
   setSelected([]);
 };
 const handleClick = (event, id) => {
   const selectedIndex = selected.indexOf(id);
   let newSelected = [];
   if (selectedIndex === -1) {
     newSelected = newSelected.concat(selected, id);
   } else if (selectedIndex === 0) {
     newSelected = newSelected.concat(selected.slice(1));
   } else if (selectedIndex === selected.length - 1) {
     newSelected = newSelected.concat(selected.slice(0, -1));
   } else if (selectedIndex > 0) {
     newSelected = newSelected.concat(
       selected.slice(0, selectedIndex),
       selected.slice(selectedIndex + 1),
     );
   setSelected(newSelected);
 };
 // Event handler for changing page
 const handleChangePage = (event, newPage) => {
   setPage(newPage);
 };
  // Event handler for changing rows per page
 const handleChangeRowsPerPage = (event) => {
   setRowsPerPage(parseInt(event.target.value, 10));
   setPage(0);
 };
 // Function to determine if a row is selected
 const isSelected = (id) => {
   const index = selected.indexOf(id);
   return index !== -1;
 };
// Calculate the number of empty rows
 const emptyRows =
   page > 0 ? Math.max(0, (1 + page) * rowsPerPage - rows.length) : 0;
   // Visible rows based on sorting, page, and rows per page
 const visibleRows = React.useMemo(
   () =>
     stableSort(rowsR, getComparator(order, orderBy)).slice(
```

```
page * rowsPerPage,
      page * rowsPerPage + rowsPerPage
    ),
  [order, orderBy, page, rowsPerPage, rowsR] // Include rows in the dependency array
);
// Return the JSX for the EnhancedTable component
return (
  <Box sx={{ width: '100%', justifyContent: 'center', display: 'flex', }}>
    <Paper sx={{ width: '50%', mb: 2, }}>
      <EnhancedTableToolbar</pre>
      numSelected={selected.length}
      selected={selected}
      setSelected={setSelected}
      deleteMeal={props.deleteMeal}
      <TableContainer>
        <Table
          sx={{ minWidth: 750 }}
          aria-labelledby='tableTitle'
          <EnhancedTableHead</pre>
            numSelected={selected.length}
            order={order}
            orderBy={orderBy}
            onSelectAllClick={handleSelectAllClick}
            onRequestSort={handleRequestSort}
            rowCount={rows.length}
          <TableBody>
            {visibleRows.map((row, index) => {
              const isItemSelected = isSelected(row.id);
              const labelId = `enhanced-table-checkbox-${index}`;
              return (
                <TableRow
                  hover
                  onClick={(event) => handleClick(event, row.id)}
                  role='checkbox'
                  aria-checked={isItemSelected}
                  tabIndex={-1}
                  key={row.id}
                  selected={isItemSelected}
                  sx={{ cursor: 'pointer' }}
                  <TableCell padding='checkbox'>
                    <Checkbox
                      color='primary'
                      checked={isItemSelected}
                      inputProps={{
                        'aria-labelledby': labelId,
```

```
}}
                    </TableCell>
                      <TableCell
                      padding='normal'
                      component='th'
                      id={labelId}
                      scope='row'
                      align='center'
                    >{row.description} {/* Set each meal in a row */}
                    </TableCell>
                    <TableCell align='center'>{row.calorie}</TableCell>
                    <TableCell align='center'>{row.category}</TableCell>
                  </TableRow>
                );
              })}
              {emptyRows > 0 && (
                <TableRow>
                  <TableCell colSpan={6} />
                </TableRow>
              )}
            </TableBody>
          </Table>
        </TableContainer>
        <TablePagination</pre>
          rowsPerPageOptions={[5, 10, 25]}
          component='div'
          count={rows.length}
          rowsPerPage={rowsPerPage}
          page={page}
          onPageChange={handleChangePage}
          onRowsPerPageChange={handleChangeRowsPerPage}
      </Paper>
    </Box>
  );
export default EnhancedTable;
```



App.css:

```
src/App.css
styling guide*/
.App_home {
  position: relative;
 height: 100vh;
  width: 100%;
 background: #f4f4f4;
  overflow-x: hidden;
/st styling at the top of the page st/
.app_navbar {
  display: flex;
  align-items: center;
  justify-content: center;
  text-align: center;
  color: #fff;
  background: black;
  width: 100%;
  height: 10vh;
  position: relative;
  z-index: 1;
/* make importent content in red */
span {
  color: salmon;
.app_constrols_report {
  display: flex;
 flex-direction: column;
  align-items: center;
  justify-content: center;
  text-align: center;
 margin-top: 5%;
/* Controls for adding new meals*/
.app_constrols_Input {
  top: 30px;
  display: flex;
 justify-content: space-around;
  align-items: center;
  flex-direction: column;
  text-align: left;
```

```
.app_constrols_Input_btn {
  justify-content: center;
 flex-direction: row;
.app_constrols_Input_muster {
 justify-content: space-around;
 padding: 5px;
/* show list of meals buttons design*/
.scrollableContainer button {
 text-align: center;
 color: white;
 background: red;
 font-size: 18px;
 border-radius: 5px;
 border: 1px solid black;
/st radio buttons forthe meal type st/
.radio_label {
 margin-right: 40px;
 display: inline;
 clear: none;
 padding: 8px;
 flex-direction: row;
.app_meals_container {
 display: flex;
 flex-direction: column;
 align-items: center;
.app_meals_container_wrapper {
 text-align: center;
 margin-bottom: 20px;
.app_meals_container_warapper_inner {
 width: 50%;
 display: flex;
 align-items: center;
 align-items: stretch;
 justify-content: space-between;
 border: 1px solid black;
```

```
margin: 10px auto;
 padding: 5px;
 font-size: 18px;
 font-weight: 800;
 border-radius: 5px;
 overflow: hidden;
 flex-wrap: wrap;
 flex-direction: column;
/* styling for Material-UI Card and Button components */
.app_meals_container_warapper_inner>.MuiCard-root {
 width: 100%;
 margin: 10px auto;
 margin-bottom: 10px;
.app_meals_container_warapper_inner>.MuiCard-root>.MuiCardContent-root {
 display: flex;
 flex-direction: column;
 align-items: flex-start;
.app_meals_container_warapper_inner>.MuiCard-root>.MuiCardContent-root>div {
 margin-bottom: 10px;
.app_meals_container_warapper_inner>.MuiCard-root>.MuiCardContent-root>div:last-child {
 margin-bottom: 0;
.app_meals_container_warapper_inner>.MuiCard-root>.MuiButtonBase-root {
 margin-top: 10px;
.app_table_cell .btn {
 padding: 5px;
 outline: none;
 text-align: center;
 font-size: 18px;
 color: white;
 background: salmon;
 border-radius: 5px;
 border: 1px solid rgb(79, 2, 74);
 margin-bottom: 5px;
 margin-top: 5px;
.calendar-container {
 display: flex;
```

```
flex-direction: column;
 align-items: center;
.calendar-container .btn {
 padding: 5px;
 outline: none;
 text-align: center;
 font-size: 18px;
 color: white;
 background: salmon;
 border-radius: 5px;
 border: 1px solid rgb(79, 2, 74);
 margin-bottom: 5px;
 margin-top: 5px;
.app_meals_container_wrapper .btn {
 padding: 5px;
 outline: none;
 text-align: center;
 font-size: 18px;
 color: white;
 background: salmon;
 border-radius: 5px;
 border: 1px solid rgb(79, 2, 74);
 margin-bottom: 5px;
 margin-top: 5px;
.scrollableContainer {
 max-height: 180px;
 overflow-y: auto;
 margin: 0 auto;
 height: auto;
 width: 50%;
 padding: 16px;
 align-items: center;
 align-content: center;
 justify-content: center;
 flex-direction: column;
/st design the page equaly to 3 */
.app_table {
 border-collapse: collapse;
 width: 100%;
 table-layout: fixed;
```

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```
.app_table_cell {
  padding: 0;
  vertical-align: top;
  text-align: center;
}

/* the counter of total calories for today */
.app_controls_counter {
  display: inline-block;
  min-height: max-content;
}
```