

week4

For Gird Part

Home.js

```
import * as React from 'react';
import { styled } from '@mui/material/styles';
import Box from '@mui/material/Box';
import Paper from '@mui/material/Paper';
import Grid from '@mui/material/Grid';

const Item = styled(Paper)(({ theme }) => ({
  backgroundColor: theme.palette.mode === 'dark' ? '#1A2027' : '#fff',
  ...theme.typography.body2,
  padding: theme.spacing(1),
  textAlign: 'center',
  color: theme.palette.text.secondary,
}));

export default function Home() {
  return (
    <Box sx={{ flexGrow: 1 }}>
      <Grid container spacing={2}>
        <Grid item xs={12} sm={12} md={12}>
          <Item>Header</Item>
        </Grid>
        <Grid item xs={12} sm={12} md={12}>
          <Item>Home Image</Item>
        </Grid>

        { /* item start */ }
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>

        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>

        { /* item end */ }

        <Grid item xs={8} sm={6} md={12}>
          <Item> Footer</Item>
        </Grid>
      </Grid>
    </Box>
  );
}
```

For Header Part

header.js

```
import * as React from 'react';
import AppBar from '@mui/material/AppBar';
import Box from '@mui/material/Box';
import Toolbar from '@mui/material/Toolbar';
import IconButton from '@mui/material/IconButton';
import Typography from '@mui/material/Typography';
import Menu from '@mui/material/Menu';
import MenuIcon from '@mui/icons-material/Menu';
import Container from '@mui/material/Container';
import Avatar from '@mui/material/Avatar';
import Button from '@mui/material/Button';
import Tooltip from '@mui/material/Tooltip';
import MenuItem from '@mui/material/MenuItem';
import AddAPhotoIcon from '@mui/icons-material/AddAPhoto';

const pages = ['Products', 'Pricing', 'Blog'];
const settings = ['Profile', 'Account', 'Dashboard', 'Logout'];

function ResponsiveAppBar() {
  const [anchorElNav, setAnchorElNav] = React.useState(null);
  const [anchorElUser, setAnchorElUser] = React.useState(null);

  const handleOpenNavMenu = (event) => {
    setAnchorElNav(event.currentTarget);
  };
  const handleOpenUserMenu = (event) => {
    setAnchorElUser(event.currentTarget);
  };

  const handleCloseNavMenu = () => {
    setAnchorElNav(null);
  };

  const handleCloseUserMenu = () => {
    setAnchorElUser(null);
  };

  return (
    <AppBar position="static">
      <Container maxWidth="xl">
        <Toolbar disableGutters>
          <AddAPhotoIcon sx={{ display: { xs: 'none', md: 'flex' }, mr: 1 }} />
          <Typography
            variant="h6"
            noWrap
            component="a"
            href="/"
            sx={{
              mr: 2,
              display: { xs: 'none', md: 'flex' },
              fontFamily: 'monospace',
              fontWeight: 700,
              letterSpacing: '.3rem',
              color: 'inherit',
              textDecoration: 'none',
            }}
          >
            PHOTO
          </Typography>

          <Box sx={{ flexGrow: 1, display: { xs: 'flex', md: 'none' } }}>
            <IconButton
              size="large"
              aria-label="account of current user"
              aria-controls="menu-appbar"
              aria-haspopup="true"
              onClick={handleOpenNavMenu}
              color="inherit"
            >

```

```

      <MenuIcon />
    </IconButton>
    <Menu
      id="menu-appbar"
      anchorEl={anchorElNav}
      anchorOrigin={{
        vertical: 'bottom',
        horizontal: 'left',
      }}
      keepMounted
      transformOrigin={{
        vertical: 'top',
        horizontal: 'left',
      }}
      open={Boolean(anchorElNav)}
      onClose={handleCloseNavMenu}
      sx={{
        display: { xs: 'block', md: 'none' },
      }}
    >
      {pages.map((page) => (
        <MenuItem key={page} onClick={handleCloseNavMenu}>
          <Typography textAlign="center">{page}</Typography>
        </MenuItem>
      ))}
    </Menu>
  </Box>
  <AddPhotoIcon sx={{ display: { xs: 'flex', md: 'none' }, mr: 1 }} />
  <Typography
    variant="h5"
    noWrap
    component="a"
    href="/"
    sx={{
      mr: 2,
      display: { xs: 'flex', md: 'none' },
      flexGrow: 1,
      fontFamily: 'monospace',
      fontWeight: 700,
      letterSpacing: '.3rem',
      color: 'inherit',
      textDecoration: 'none',
    }}
  >
    PHOTO
  </Typography>
  <Box sx={{ flexGrow: 1, display: { xs: 'none', md: 'flex' } }}>
    {pages.map((page) => (
      <Button
        key={page}
        onClick={handleCloseNavMenu}
        sx={{ my: 2, color: 'white', display: 'block' }}
      >
        {page}
      </Button>
    ))}
  </Box>

  <Box sx={{ flexGrow: 0 }}>
    <Tooltip title="Open settings">
      <IconButton onClick={handleOpenUserMenu} sx={{ p: 0 }}>
        <Avatar alt="Remy Sharp" src="/static/images/avatar/2.jpg" />
      </IconButton>
    </Tooltip>
    <Menu
      sx={{ mt: '45px' }}
      id="menu-appbar"
      anchorEl={anchorElUser}
      anchorOrigin={{
        vertical: 'top',
        horizontal: 'right',
      }}
      keepMounted
      transformOrigin={{
        vertical: 'top',
        horizontal: 'right',
      }}
      open={Boolean(anchorElUser)}
      onClose={handleCloseUserMenu}
    >
      {settings.map((setting) => (

```

```

        <MenuItem key={setting} onClick={handleCloseUserMenu}>
          <Typography textAlign="center">{setting}</Typography>
        </MenuItem>
      )}
    </Menu>
  </Box>
  </Toolbar>
</Container>
</AppBar>
);
}
export default ResponsiveAppBar;

```

Home.js

```

import * as React from 'react';
import { styled } from '@mui/material/styles';
import Box from '@mui/material/Box';
import Paper from '@mui/material/Paper';
import Grid from '@mui/material/Grid';
import Header from './component/header.js'
import ImageList from '@mui/material/ImageList';
import ImageListItem from '@mui/material/ImageListItem';

const Item = styled(Paper)(({ theme }) => ({
  backgroundColor: theme.palette.mode === 'dark' ? '#1A2027' : 'fff',
  ...theme.typography.body2,
  padding: theme.spacing(1),
  textAlign: 'center',
  color: theme.palette.text.secondary,
}));

export default function Home() {
  return (
    <Box sx={{ flexGrow: 1 }}>
      <Grid container spacing={2}>
        <Grid item xs={12} sm={12} md={12}>
          <Item>
            <Header />
          </Item>
        </Grid>
        <Grid item xs={12} sm={12} md={12}>
          <Item>
            Image Here
          </Item>
        </Grid>

        { /* item start */ }
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>

        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>

        { /* item end */ }
      </Grid>
    </Box>
  );
}

```

```

        <Grid item xs={12} sm={12} md={12}>
          <Item> Footer</Item>
        </Grid>
      </Grid>
    </Box>
  );

```

For Image Part

Add the image list

```

import * as React from 'react';
import { styled } from '@mui/material/styles';
import Box from '@mui/material/Box';
import Paper from '@mui/material/Paper';
import Grid from '@mui/material/Grid';
import Header from './component/header.js';
import ImageList from '@mui/material/ImageList';
import ImageListItem from '@mui/material/ImageListItem';

const Item = styled(Paper)(({ theme }) => ({
  backgroundColor: theme.palette.mode === 'dark' ? '#1A2027' : '#fff',
  ...theme.typography.body2,
  padding: theme.spacing(1),
  textAlign: 'center',
  color: theme.palette.text.secondary,
}));

export default function Home() {
  return (
    <Box sx={{ flexGrow: 1 }}>
      <Grid container spacing={2}>
        <Grid item xs={12} sm={12} md={12}>
          <Item>
            <Header />
          </Item>
        </Grid>
        <Grid item xs={12} sm={12} md={12}>
          <Item>
            <ImageList sx={{ height: 450 }} cols={1} rowHeight={464}>
              <ImageListItem>
                
              </ImageListItem>
            </ImageList>
          </Item>
        </Grid>

        { /* item start */ }
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>

        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
      </Box>
    );
  }

```

```

        <Grid item xs={12} sm={6} md={3}>
          <Item>Listed Item</Item>
        </Grid>
      <Grid item xs={12} sm={6} md={3}>
        <Item>Listed Item</Item>
      </Grid>

      { /* item end */ }

      <Grid item xs={12} sm={12} md={12}>
        <Item> Footer</Item>
      </Grid>
    </Grid>
  </Box>
);
}

```

displayImg.js

```

import * as React from 'react';
import ImageList from '@mui/material/ImageList';
import ImageListItem from '@mui/material/ImageListItem';
import ImageListItemBar from '@mui/material/ImageListItemBar';

class displayImg extends React.Component {
  render() {
    return (
      <ImageList sx={{ width: 500, height: 250 }}>
        <ImageListItem >
          
          <ImageListItemBar
            title="Breakfast"
            subtitle={<span>by: bkristastucchio</span>}
            position="below"
          />
        </ImageListItem>
      </ImageList>
    );
  }
}

export default displayImg;

```

home.js

```

import * as React from 'react';
import { styled } from '@mui/material/styles';
import Box from '@mui/material/Box';
import Paper from '@mui/material/Paper';
import Grid from '@mui/material/Grid';
import ImageList from '@mui/material/ImageList';
import ImageListItem from '@mui/material/ImageListItem';

import Heeader from './component/header.js'
import DisplayImg from './component/displayImg.js'

const Item = styled(Paper)(({ theme }) => ({
  backgroundColor: theme.palette.mode === 'dark' ? '#1A2027' : '#fff',
  ...theme.typography.body2,
  padding: theme.spacing(1),

```


For Image Part (Transfer Value)

displayImg.js

```
import * as React from 'react';
import ImageList from '@mui/material/ImageList';
import ImageListItem from '@mui/material/ImageListItem';
import ImageListItemBar from '@mui/material/ImageListItemBar';

class displayImg extends React.Component {
  render() {
    return (
      <ImageList sx={{ width: 500, height: 250 }}>
        <ImageListItem>
          <img
            src= {this.props.link}
            alt={this.props.title}
            loading="lazy"
          />
          <ImageListItemBar
            title={this.props.title}
            subtitle={<span>by: {this.props.author}</span>}
            position="below"
          />
        </ImageListItem>
      </ImageList>
    );
  }
}

export default displayImg;
```

home.js

```
import * as React from 'react';
import { styled } from '@mui/material/styles';
import Box from '@mui/material/Box';
import Paper from '@mui/material/Paper';
import Grid from '@mui/material/Grid';
import ImageList from '@mui/material/ImageList';
import ImageListItem from '@mui/material/ImageListItem';

import Heeader from './component/header.js'
import DisplayImg from './component/displayImg.js'

const Item = styled(Paper)(({ theme }) => ({
  backgroundColor: theme.palette.mode === 'dark' ? '#1A2027' : '#fff',
  ...theme.typography.body2,
  padding: theme.spacing(1),
  textAlign: 'center',
  color: theme.palette.text.secondary,
}));

export default function Home() {
  return (
    <Box sx={{ flexGrow: 1 }}>
      <Grid container spacing={2}>
        <Grid item xs={12} sm={12} md={12}>
          <Item>
            <Heeader />
          </Item>
        </Grid>
        <Grid item xs={12} sm={12} md={12}>
          <Item>

```



```

        title="Breakfast"
        link="https://images.unsplash.com/photo-1551963831-b3b1ca40c98e"
      />
    </Item>
  </Grid>

  /* item end */

  <Grid item xs={12} sm={12} md={12}>
    <Item> Footer</Item>
  </Grid>
</Box>
);
}

```

For Footer Part

footerInfo.js

```

import * as React from "react";
import Paper from "@mui/material/Paper";
import Divider from "@mui/material/Divider";
import MenuList from "@mui/material/MenuList";
import MenuItem from "@mui/material/MenuItem";
import Grid from '@mui/material/Grid';
import ListItemIcon from "@mui/material/ListItemIcon";
import ListItemText from "@mui/material/ListItemText";
import Check from "@mui/icons-material/Check";

export default function DenseMenu() {
  return (
    <Grid container spacing={2}>
      <Grid item xs={12} sm={12} md={12}>
        <MenuList>
          <MenuItem>
            <ListItemText>Footer menu text here</ListItemText>
          </MenuItem>
          <MenuItem>
            <ListItemText>Footer menu text here</ListItemText>
          </MenuItem>
          <Divider />
          <MenuItem>
            <ListItemText>Footer social media link here</ListItemText>
          </MenuItem>
          <MenuItem>
            <ListItemText>Footer social media link here</ListItemText>
          </MenuItem>
        </MenuList>
      </Grid>
    </Grid>
  );
}

```

home.js

```

import * as React from 'react';
import { styled } from '@mui/material/styles';
import Box from '@mui/material/Box';
import Paper from '@mui/material/Paper';
import Grid from '@mui/material/Grid';
import ImageList from '@mui/material/ImageList';
import ImageListItem from '@mui/material/ImageListItem';
import Divider from "@mui/material/Divider";

```

```

import Header from './component/header.js'
import DisplayImg from './component/displayImg.js'
import FooterInfo from './component/footerInfo.js'

const Item = styled(Paper)(({ theme }) => ({
  backgroundColor: theme.palette.mode === 'dark' ? '#1A2027' : '#fff',
  ...theme.typography.body2,
  padding: theme.spacing(1),
  textAlign: 'center',
  color: theme.palette.text.secondary,
}));

export default function Home() {
  return (
    <Box sx={{ flexGrow: 1 }}>
      <Grid container spacing={2}>
        <Grid item xs={12} sm={12} md={12}>
          <Item>
            <Header />
          </Item>
        </Grid>
        <Grid item xs={12} sm={12} md={12}>
          <Item>
            <ImageList sx={{ height: 450 }} cols={1} rowHeight={464}>
              <ImageListItem>
                
              </ImageListItem>
            </ImageList>
          </Item>
        </Grid>

        {/ item start */}
        <Grid item xs={12} sm={6} md={3}>
          <Item>
            <DisplayImg
              author="bkristastucchio"
              title="Breakfast"
              link="https://images.unsplash.com/photo-1551963831-b3b1ca40c98e"
            />
          </Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>
            <DisplayImg
              author="bkristastucchio"
              title="Breakfast"
              link="https://images.unsplash.com/photo-1551963831-b3b1ca40c98e"
            />
          </Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>
            <DisplayImg
              author="bkristastucchio"
              title="Breakfast"
              link="https://images.unsplash.com/photo-1551963831-b3b1ca40c98e"
            />
          </Item>
        </Grid>
        <Grid item xs={12} sm={6} md={3}>
          <Item>
            <DisplayImg
              author="bkristastucchio"
              title="Breakfast"
              link="https://images.unsplash.com/photo-1551963831-b3b1ca40c98e"
            />
          </Item>
        </Grid>

        <Grid item xs={12} sm={6} md={3}>
          <Item>
            <DisplayImg
              author="bkristastucchio"
              title="Breakfast"
            />
          </Item>
        </Grid>
      </Grid>
    </Box>
  );
}

```

```

        link="https://images.unsplash.com/photo-1551963831-b3b1ca40c98e"
      />
    </Item>
  </Grid>
  <Grid item xs={12} sm={6} md={3}>
    <Item>
      <DisplayImg
        author="bkristastucchio"
        title="Breakfast"
        link="https://images.unsplash.com/photo-1551963831-b3b1ca40c98e"
      />
    </Item>
  </Grid>
  <Grid item xs={12} sm={6} md={3}>
    <Item>
      <DisplayImg
        author="bkristastucchio"
        title="Breakfast"
        link="https://images.unsplash.com/photo-1551963831-b3b1ca40c98e"
      />
    </Item>
  </Grid>
  <Grid item xs={12} sm={6} md={3}>
    <Item>
      <DisplayImg
        author="bkristastucchio"
        title="Breakfast"
        link="https://images.unsplash.com/photo-1551963831-b3b1ca40c98e"
      />
    </Item>
  </Grid>

  { /* item end */ }
  <Divider />

  <Grid item xs={12} sm={12} md={12}>
    <Item>
      <FooterInfo />
    </Item>
  </Grid>
</Grid>
</Box>
);
}

```

For D3.js Part

`npm install d3`

barchart

```

import React, { Component } from 'react'
import * as d3 from 'd3'

class BarChart extends Component {
  componentDidMount() {
    this.drawChart();
  }
  drawChart() {
    const data = [12, 5, 6, 6, 9, 10];

    const svg = d3.select("body")
      .append("svg")
      .attr("width", 700)
      .attr("height", 300);

    svg.selectAll("rect")
      .data(data)
      .enter()
      .append("rect")
  }
}

```

```
      .attr("x", (d, i) => i * 70)
      .attr("y", (d, i) => 300 - 10 * d)
      .attr("width", 65)
      .attr("height", (d, i) => d * 10)
      .attr("fill", "green");
    }
    render() {
      return <div id={"#" + this.props.id}></div>
    }
  }
  export default BarChart;
```