

Assignment SOLUTION
Oralens LLC
Front End Developer
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React.js Code (Frontend)

```
import React, { useState } from "react";  
import { TextField, Button, Box, Typography, Grid, Container } from "@mui/material";  
import axios from "axios";
```

```
const App = () => {  
  const [formData, setFormData] = useState({  
    name: "",  
    age: "",  
    file: null,  
  });  
  
  const handleInputChange = (e) => {  
    const { name, value } = e.target;  
    setFormData({ ...formData, [name]: value });  
  };  
  
  const handleFileChange = (e) => {  
    setFormData({ ...formData, file: e.target.files[0] });  
  };  
  
  const handleSubmit = async (e) => {  
    e.preventDefault();  
  
    // Prepare data to send to the backend  
    const data = new FormData();  
    data.append("name", formData.name);  
    data.append("age", formData.age);  
    data.append("file", formData.file);  
  
    try {  
      // Make a POST request to the Python backend  
      const response = await axios.post("http://127.0.0.1:5000/upload", data, {  
        headers: { "Content-Type": "multipart/form-data" },  
      });  
      alert("Form submitted successfully: " + response.data.message);  
    } catch (error) {  
      alert("Error submitting the form: " + error.message);  
    }  
  }  
};
```

```
}  
};
```

```
return (  
  <Container>  
    <Box  
      sx={{  
        bgcolor: "#f7f7f7",  
        p: 4,  
        borderRadius: 2,  
        boxShadow: 3,  
        maxWidth: 600,  
        mx: "auto",  
        mt: 5,  
      }}  
    >  
      <Typography variant="h4" gutterBottom align="center">  
        Healthcare Dashboard  
      </Typography>  
      <form onSubmit={handleSubmit}>  
        <Grid container spacing={3}>  
          <Grid item xs={12}>  
            <TextField  
              fullWidth  
              label="Name"  
              name="name"  
              value={formData.name}  
              onChange={handleInputChange}  
              required  
            />  
          </Grid>  
          <Grid item xs={12}>  
            <TextField  
              fullWidth  
              label="Age"  
              name="age"  
              value={formData.age}  
              onChange={handleInputChange}  
              type="number"  
              required  
            />  
          </Grid>  
          <Grid item xs={12}>  
            <Button variant="contained" component="label" fullWidth>
```

```

        Upload File
        <input
            type="file"
            hidden
            onChange={handleFileChange}
            accept=".pdf,.jpg,.png,.docx"
        />
    </Button>
    {formData.file && (
        <Typography variant="body2" mt={1}>
            Selected file: {formData.file.name}
        </Typography>
    )}
</Grid>
<Grid item xs={12}>
    <Button
        type="submit"
        fullWidth
        variant="contained"
        color="primary"
        size="large"
    >
        Submit
    </Button>
</Grid>
</Grid>
</form>
</Box>
</Container>
);
};

export default App;

```

Flask Code (Backend)

```

from flask import Flask, request, jsonify
from werkzeug.utils import secure_filename
import os

app = Flask(__name__)

```

```
UPLOAD_FOLDER = './uploads'
os.makedirs(UPLOAD_FOLDER, exist_ok=True)
app.config['UPLOAD_FOLDER'] = UPLOAD_FOLDER

@app.route('/upload', methods=['POST'])
def upload():
    name = request.form.get("name")
    age = request.form.get("age")
    file = request.files.get("file")

    if not name or not age or not file:
        return jsonify({"error": "Missing required fields"}), 400

    filename = secure_filename(file.filename)
    file.save(os.path.join(app.config['UPLOAD_FOLDER'], filename))

    return jsonify({"message": "File uploaded successfully", "name": name, "age": age})

if __name__ == '__main__':
    app.run(debug=True)
```