

■ Project Code Export

■ Frontend File List:

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■ File: .gitignore

```
=====
[Binary file - format]
-----
```

■ File: Frontend_Code_Export.pdf

```
=====
[Binary file - .pdf format]
-----
```

■ File: db.json

```
=====
1: {
2:   "settings": {
3:     "title": "GENOMICS & DIET",
4:     "quote": "\"YOU ARE WHAT YOU EAT\" - Victor Lindlahr",
5:     "description": "A right diet is the one that makes you feel happy, keeps you healthy, does not make you
6:     "headerColor": "#16a34a",
7:     "colors": {
8:       "low": "#16a34a",
9:       "medium": "#f59e0b",
10:      "high": "#dc2626"
11:    },
12:    "highThreshold": 6
13:  },
14:  "categories": [
15:    {
16:      "id": 1,
17:      "name": "MACRONUTRIENTS"
18:    },
19:    {
20:      "id": 2,
21:      "name": "MEAL PATTERN"
22:    },
23:    {
24:      "id": 3,
25:      "name": "FOOD SENSITIVITIES"
26:    }
27:  ],
28:  "fields": [
29:    {
30:      "id": "carb",
31:      "label": "Carbohydrate Sensitivity",
32:      "category": "MACRONUTRIENTS",
33:      "min": 1,
34:      "max": 10,
35:      "high": "Maintain carb intake <45%\nFor obesity & IR control",
36:      "normal": "Maintain carb intake <50%\nBalanced recommendation",
37:      "low": "Maintain carb intake <60%\nFor obesity & IR control",
38:      "_uuid": "cad62c59-d101-4eb5-9e60-8cbd3c17f195",
39:      "_originalId": "carb"
40:    },
41:    {
42:      "id": "fat",
43:      "label": "Fat Sensitivity",
44:      "category": "MACRONUTRIENTS",
45:      "min": 1,
46:      "max": 10,
47:      "high": "Fat intake not to exceed\n15% of total calories",
48:      "normal": "Fat intake should be\n20% of total calories",
49:      "low": "Fat intake advised up to\n25% of total calories"
50:    },
51:    {
52:      "id": "protein",
53:      "label": "Protein Requirement",
54:      "category": "MACRONUTRIENTS",
55:      "min": 1,
56:      "max": 15,
57:      "high": "Protein supplements\nneeded along with dietary\nsource",
58:      "normal": "Maintain adequate protein\nthrough balanced diet and\noccasional supplements",
59:      "low": "Protein supplements not\nneeded, intake through\ndiet is enough"
=====
```

```

60:     },
61:     {
62:         "id": "meal",
63:         "label": "Meal Frequency",
64:         "category": "MEAL PATTERN",
65:         "min": 1,
66:         "max": 10,
67:         "high": "4-5 small meals suggested\nin a day",
68:         "normal": "3-4 balanced meals\nrecommended per day",
69:         "low": "Less frequent meals, 2-3\nmeals are enough in a day"
70:     },
71:     {
72:         "id": "alcohol",
73:         "label": "Alcohol Sensitivity",
74:         "category": "",
75:         "min": 1,
76:         "max": 6,
77:         "high": "High sensitivity, avoid\nalcohol if possible,\nespecially the types of\nbeverages that trigger",
78:         "normal": "Moderate sensitivity,\nlimit alcohol consumption\nto 1-2 drinks per day,\nmonitor for any",
79:         "low": "Low sensitivity, know\nyour alcohol intake limits,\nconsult doctor for\nknowing your upper limit"
80:     },
81:     {
82:         "id": "caffeine",
83:         "label": "Caffeine Sensitivity",
84:         "category": "",
85:         "min": 1,
86:         "max": 5,
87:         "high": "High sensitivity, do not\nconsume >4 cups/day",
88:         "normal": "Moderate sensitivity,\nlimit caffeine to 4-5\ncups per day",
89:         "low": "Caffeine up to 5 cups a\nday can be consumed"
90:     },
91:     {
92:         "id": "gluten",
93:         "label": "Gluten Sensitivity",
94:         "category": "FOOD SENSITIVITIES",
95:         "min": 1,
96:         "max": 10,
97:         "high": "Gluten intake needs to be\nreduced/stopped",
98:         "normal": "Monitor gluten intake,\nreduce if experiencing\ndigestive issues",
99:         "low": "Gluten to be avoided in\ncases of gastric distress"
100:     },
101:     {
102:         "id": "lactose",
103:         "label": "Lactose Sensitivity",
104:         "category": "FOOD SENSITIVITIES",
105:         "min": 1,
106:         "max": 10,
107:         "high": "Milk & milk products need\nto be avoided",
108:         "normal": "Limit milk & milk products,\nconsider lactose-free\nalternatives if needed",
109:         "low": "Milk or milk products to\nbe avoided in gastric\ndistress"
110:     },
111:     {
112:         "id": "salt",
113:         "label": "Salt Sensitivity",
114:         "category": "",
115:         "min": 1,
116:         "max": 8,
117:         "high": "Try to reduce overall salt\nintake to up to 3-5 gm per\nday",
118:         "normal": "Maintain salt intake\naround 5 gm per day",
119:         "low": "Consumption of salt up to\n5 gm/day can be done"
120:     },
121:     {
122:         "id": "field_1751974814401",
123:         "label": "New Field",
124:         "category": "",
125:         "min": 1,
126:         "max": 10,
127:         "high": "",
128:         "normal": "",
129:         "low": ""
130:     }
131: ]
132: }

```

■ File: postcss.config.js

```
=====
1: module.exports = {
2:   plugins: {
3:     tailwindcss: {},
4:     autoprefixer: {},
5:   },
6: }
```

■ File: public/favicon.ico

```
=====
[Binary file - .ico format]
=====
```

■ File: public/index.html

```
=====
1: <!DOCTYPE html>
2: <html lang="en">
3:   <head>
4:     <meta charset="utf-8" />
5:     <link rel="icon" href="%PUBLIC_URL%/favicon.ico" />
6:     <meta name="viewport" content="width=device-width, initial-scale=1" />
7:     <meta name="theme-color" content="#000000" />
8:     <meta
9:       name="description"
10:      content="Web site created using create-react-app"
11:    />
12:     <link rel="apple-touch-icon" href="%PUBLIC_URL%/logo192.png" />
13:     <!--
14:       manifest.json provides metadata used when your web app is installed on a
15:       user's mobile device or desktop. See https://developers.google.com/web/fundamentals/web-app-manifest/
16:     -->
17:     <link rel="manifest" href="%PUBLIC_URL%/manifest.json" />
18:     <!--
19:       Notice the use of %PUBLIC_URL% in the tags above.
20:       It will be replaced with the URL of the `public` folder during the build.
21:       Only files inside the `public` folder can be referenced from the HTML.
22:
23:       Unlike "/favicon.ico" or "favicon.ico", "%PUBLIC_URL%/favicon.ico" will
24:       work correctly both with client-side routing and a non-root public URL.
25:       Learn how to configure a non-root public URL by running `npm run build`.
26:     -->
27:     <title>React App</title>
28:   </head>
29:   <body>
30:     <noscript>You need to enable JavaScript to run this app.</noscript>
31:     <div id="root"></div>
32:     <!--
33:       This HTML file is a template.
34:       If you open it directly in the browser, you will see an empty page.
35:
36:       You can add webfonts, meta tags, or analytics to this file.
37:       The build step will place the bundled scripts into the <body> tag.
38:
39:       To begin the development, run `npm start` or `yarn start`.
40:       To create a production bundle, use `npm run build` or `yarn build`.
41:     -->
42:   </body>
43: </html>
=====
```

■ File: public/left.png

```
=====
[Binary file - .png format]
=====
```

■ File: public\logo192.png

=====
[Binary file - .png format]

■ File: public\logo512.png

=====
[Binary file - .png format]

■ File: public\manifest.json

=====
1: {
2: "short_name": "React App",
3: "name": "Create React App Sample",
4: "icons": [
5: {
6: "src": "favicon.ico",
7: "sizes": "64x64 32x32 24x24 16x16",
8: "type": "image/x-icon"
9: },
10: {
11: "src": "logo192.png",
12: "type": "image/png",
13: "sizes": "192x192"
14: },
15: {
16: "src": "logo512.png",
17: "type": "image/png",
18: "sizes": "512x512"
19: }
20:],
21: "start_url": ".",
22: "display": "standalone",
23: "theme_color": "#000000",
24: "background_color": "#ffffff"
25: }

■ File: public\right.png

=====
[Binary file - .png format]

■ File: public\robots.txt

=====
https://www.robotstxt.org/robotstxt.html
User-agent: *
Disallow:

■ File: script.py

=====
1: import os
2: from reportlab.lib.pagesizes import A4
3: from reportlab.lib.units import mm
4: from reportlab.pdfgen import canvas
5:
6: def get_code_files(directory, excluded_files=None, excluded_dirs=None):
7: """Fetch all project files except specified exclusions."""
8: if excluded_files is None:
9: excluded_files = {'package.json', 'package-lock.json'}
10:
11: if excluded_dirs is None:
12: excluded_dirs = {'node_modules', '.git', '__pycache__', 'build', '.next', 'dist'}
13:
14: code_files = {}
15:

```

16:     for root, dirs, files in os.walk(directory):
17:         # Skip excluded directories
18:         dirs[:] = [d for d in dirs if d not in excluded_dirs]
19:
20:         # Skip if current directory is an excluded directory
21:         if any(excluded_dir in root.split(os.sep) for excluded_dir in excluded_dirs):
22:             continue
23:
24:         for file in files:
25:             # Skip excluded files
26:             if file in excluded_files:
27:                 continue
28:
29:             file_path = os.path.join(root, file)
30:
31:             # Get file extension
32:             _, ext = os.path.splitext(file)
33:
34:             try:
35:                 # Try to read as text file first
36:                 if ext.lower() in {'.js', '.jsx', '.ts', '.tsx', '.css', '.scss', '.sass', '.less',
37:                                     '.html', '.htm', '.json', '.md', '.txt', '.xml', '.yaml', '.yml',
38:                                     '.config', '.gitignore', '.env', '.py', '.sh', '.bat', '.cmd',
39:                                     '.svg', '.dockerfile', '.editorconfig', '.eslintrc', '.prettierrc'}:
40:                     with open(file_path, "r", encoding="utf-8", errors="ignore") as f:
41:                         code_files[file_path] = f.readlines()
42:             except:
43:                 # For binary files, just note them as binary
44:                 code_files[file_path] = [f"[Binary file - {ext} format]"]
45:
46:             except Exception as e:
47:                 print(f"? Error reading {file_path}: {e}")
48:                 code_files[file_path] = [f"[Error reading file: {str(e)}]"]
49:
50:     return code_files
51:
52:
53: def create_pdf(code_data, output_pdf="Frontend_Code_Export.pdf"):
54:     c = canvas.Canvas(output_pdf, pagesize=A4)
55:     width, height = A4
56:     margin = 20 * mm
57:     line_height = 10
58:     y = height - margin
59:
60:     # Title
61:     c.setFont("Helvetica-Bold", 16)
62:     c.drawString(margin, y, "? Project Code Export")
63:     y -= 2 * line_height
64:     c.setFont("Helvetica-Bold", 12)
65:     c.drawString(margin, y, "? Frontend File List:")
66:     y -= 2 * line_height
67:
68:     file_paths = sorted(list(code_data.keys()))
69:
70:     # 1. File list (original simple format)
71:     c.setFont("Courier", 8)
72:     for path in file_paths:
73:         if y < margin:
74:             c.showPage()
75:             c.setFont("Courier", 8)
76:             y = height - margin
77:
78:             display_path = os.path.relpath(path)
79:             c.drawString(margin, y, f"- {display_path}")
80:             y -= line_height
81:
82:     # Add page break before code content
83:     c.showPage()
84:     y = height - margin
85:
86:     # 2. File contents
87:     for file_path in file_paths:
88:         lines = code_data[file_path]

```

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89:         print(f"? Adding: {file_path}")
90:
91:         if y < margin + 3 * line_height:
92:             c.showPage()
93:             y = height - margin
94:
95:         # File header
96:         rel_path = os.path.relpath(file_path)
97:         c.setFont("Helvetica-Bold", 12)
98:         c.drawString(margin, y, f"? File: {rel_path}")
99:         y -= line_height
100:
101:         # Add separator line
102:         c.setFont("Courier", 8)
103:         c.drawString(margin, y, "=" * 80)
104:         y -= line_height
105:
106:         # File content
107:         for line_num, line in enumerate(lines, 1):
108:             if y < margin:
109:                 c.showPage()
110:                 c.setFont("Courier", 8)
111:                 y = height - margin
112:
113:             # Clean and truncate line
114:             line = line.strip("\n").encode("latin-1", "replace").decode("latin-1")
115:
116:             # Add line numbers for code files
117:             if rel_path.endswith((''.js', '.jsx', '.ts', '.tsx', '.css', '.py', '.html', '.json')):
118:                 display_line = f"{line_num:3d}: {line[:280]}"
119:             else:
120:                 display_line = line[:300]
121:
122:             c.drawString(margin, y, display_line)
123:             y -= line_height
124:
125:         # Add spacing between files
126:         y -= line_height
127:         if y > margin:
128:             c.setFont("Courier", 8)
129:             c.drawString(margin, y, "-" * 80)
130:             y -= 2 * line_height
131:
132:         c.save()
133:         print(f"? PDF successfully created: {output_pdf}")
134:         print(f"? Total files processed: {len(code_data)}")
135:
136:
137: def main():
138:     root_dir = os.path.dirname(os.path.abspath(__file__))
139:
140:     # Files to exclude (including package.json as requested)
141:     excluded_files = {
142:         'package.json',
143:         'package-lock.json',
144:         'yarn.lock',
145:         'README.md',
146:         '.DS_Store',
147:         'Thumbs.db',
148:         'Desktop.ini'
149:     }
150:
151:     # Directories to exclude
152:     excluded_dirs = {
153:         'node_modules',
154:         '.git',
155:         '__pycache__',
156:         'build',
157:         'dist',
158:         '.next',
159:         'coverage',
160:         '.nyc_output',
161:         'logs',

```

```

162:         '*.log'
163:     }
164:
165:     print("? Scanning project files...")
166:     code_files = get_code_files(root_dir, excluded_files, excluded_dirs)
167:
168:     if not code_files:
169:         print("? No files found to process!")
170:         return
171:
172:     print(f"? Found {len(code_files)} files to include in PDF")
173:     create_pdf(code_files)
174:
175:
176: if __name__ == "__main__":
177:     main()

```

■ File: src\App.css

```

1: .App {
2:   text-align: center;
3: }
4:
5: .App-logo {
6:   height: 40vmin;
7:   pointer-events: none;
8: }
9:
10: @media (prefers-reduced-motion: no-preference) {
11:   .App-logo {
12:     animation: App-logo-spin infinite 20s linear;
13:   }
14: }
15:
16: .App-header {
17:   background-color: #282c34;
18:   min-height: 100vh;
19:   display: flex;
20:   flex-direction: column;
21:   align-items: center;
22:   justify-content: center;
23:   font-size: calc(10px + 2vmin);
24:   color: white;
25: }
26:
27: .App-link {
28:   color: #61dafb;
29: }
30:
31: @keyframes App-logo-spin {
32:   from {
33:     transform: rotate(0deg);
34:   }
35:   to {
36:     transform: rotate(360deg);
37:   }
38: }

```

■ File: src\App.js

```

1: import React from 'react';
2: import { FormConfigProvider } from '../contexts/FormConfigContext';
3: import { ThemeProvider } from '../contexts/ThemeContext';
4: import AppContent from './AppContent';
5: import Toasts from './components/common/Toasts';
6: // import { FormConfigProvider } from "../contexts/FormConfigContext";
7:
8:
9: function App() {

```



```

10:   return (
11:     <ThemeProvider>
12:       <FormConfigProvider>
13:         <AppContent />
14:       </FormConfigProvider>
15:     </ThemeProvider>
16:   );
17: }
18:
19:
20: export default App;

```

■ File: src\App.test.js

```

1: import { render, screen } from '@testing-library/react';
2: import App from './App';
3:
4: test('renders learn react link', () => {
5:   render(<App />);
6:   const linkElement = screen.getByText(/learn react/i);
7:   expect(linkElement).toBeInTheDocument();
8: });

```

■ File: src\AppContent.js

```

1: import React, { useState, useEffect } from "react";
2: import TabNavigation from "../components/common/TabNavigation";
3: import InputForm from "../components/form/InputForm";
4: import ReportOutput from "../components/report/ReportOutput";
5: import AdminPanel from "../components/admin/AdminPanel";
6: import SettingsPanel from "../components/settings/SettingsPanel";
7: import { useReportGeneration } from "../hooks/useReportGeneration";
8: import { AnimatePresence, motion } from "framer-motion";
9:
10: const LOCAL_TAB_KEY = "activeTab";
11:
12: const AppContent = () => {
13:   // ? Load initial tab from localStorage if available
14:   const [activeTab, setActiveTab] = useState(() => {
15:     return localStorage.getItem(LOCAL_TAB_KEY) || "form";
16:   });
17:
18:   const { reportData, generateReport } = useReportGeneration();
19:
20:   // ? Sync tab state to localStorage on every change
21:   useEffect(() => {
22:     localStorage.setItem(LOCAL_TAB_KEY, activeTab);
23:   }, [activeTab]);
24:
25:   const handleGenerateReport = (formData) => {
26:     generateReport(formData);
27:   };
28:
29:   const tabTransition = {
30:     initial: { opacity: 0, y: 20 },
31:     animate: { opacity: 1, y: 0 },
32:     exit: { opacity: 0, y: -20 },
33:     transition: { duration: 0.3 },
34:   };
35:
36:   return (
37:     <div className="bg-gray-100 font-sans min-h-screen dark:bg-gray-900">
38:       <TabNavigation activeTab={activeTab} setActiveTab={setActiveTab} />
39:
40:       <AnimatePresence mode="wait">
41:         {activeTab === "form" && (
42:           <motion.div key="form" {...tabTransition}>
43:             <div className="flex flex-col md:flex-row h-screen desktop-layout">
44:               <InputForm

```

```

45:             onGenerateReport={handleGenerateReport}
46:             reportData={reportData}
47:         />
48:         <ReportOutput reportData={reportData} />
49:     </div>
50: </motion.div>
51: )}
52:
53: {activeTab === "admin" && (
54:     <motion.div key="admin" {...tabTransition}>
55:         <div className="p-6">
56:             <AdminPanel />
57:         </div>
58:     </motion.div>
59: )}
60:
61: {activeTab === "settings" && (
62:     <motion.div key="settings" {...tabTransition}>
63:         <div className="p-6">
64:             <SettingsPanel />
65:         </div>
66:     </motion.div>
67: )}
68: </AnimatePresence>
69: </div>
70: );
71: };
72:
73: export default AppContent;

```

■ File: src/assets/placeholder.svg

■ File: src/components/admin/AdminPanel.js

```

1: import React, { useEffect, useState } from "react";
2: import { DragDropContext, Droppable, Draggable } from "@hello-pangea/dnd";
3: import { toast } from "react-toastify";
4: import { v4 as uuidv4 } from "uuid";
5:
6: const API_URL = "http://localhost:5000";
7:
8: const AdminPanel = () => {
9:     const [localFields, setLocalFields] = useState([]);
10:    const [categories, setCategories] = useState([]);
11:
12:    // ? Fetch all fields
13:    const fetchFields = async () => {
14:        try {
15:            const res = await fetch(`${API_URL}/fields`);
16:            let data = await res.json();
17:
18:            data = data.map((f) => ({
19:                ...f,
20:                _uuid: uuidv4(),
21:                _originalId: f.id,
22:            }));
23:
24:            setLocalFields(data);
25:        } catch (err) {
26:            toast.error("? Failed to load fields");
27:        }
28:    };
29:
30:    // ? Fetch all categories
31:    const fetchCategories = async () => {
32:        try {
33:            const res = await fetch(`${API_URL}/categories`);
34:            const data = await res.json();

```

```

35:         // Convert to string list if needed
36:         const names = data.map((cat) =>
37:             typeof cat === "string" ? cat : cat.name
38:         );
39:         setCategories(names);
40:     } catch (err) {
41:         toast.error("? Failed to load categories");
42:     }
43: };
44:
45: useEffect(() => {
46:     fetchFields();
47:     fetchCategories();
48: }, []);
49:
50: const addNewField = async () => {
51:     const newField = {
52:         _uuid: uuidv4(),
53:         _originalId: null,
54:         id: `field_${Date.now()}`,
55:         label: "New Field",
56:         category: "",
57:         min: 1,
58:         max: 10,
59:         high: "",
60:         normal: "",
61:         low: "",
62:     };
63:
64:     const res = await fetch(`${API_URL}/fields`, {
65:         method: "POST",
66:         headers: { "Content-Type": "application/json" },
67:         body: JSON.stringify(newField),
68:     });
69:
70:     if (res.ok) {
71:         toast.success("? Field added!");
72:         fetchFields();
73:     } else {
74:         toast.error("? Failed to add field");
75:     }
76: };
77:
78: const saveField = async (index) => {
79:     const field = localFields[index];
80:     const targetId = field._originalId ?? field.id;
81:
82:     const res = await fetch(`${API_URL}/fields/${targetId}`, {
83:         method: "PUT",
84:         headers: { "Content-Type": "application/json" },
85:         body: JSON.stringify({ ...field }),
86:     });
87:
88:     if (res.ok) {
89:         toast.success("? Field saved!");
90:         fetchFields();
91:     } else {
92:         toast.error("? Failed to save field");
93:     }
94: };
95:
96: const deleteField = async (id) => {
97:     if (!window.confirm("Are you sure?")) return;
98:
99:     await fetch(`${API_URL}/fields/${id}`, { method: "DELETE" });
100:     toast.info("?? Field deleted");
101:     fetchFields();
102: };
103:
104: const updateLocalField = (index, key, value) => {
105:     const updated = [...localFields];
106:
107:     if (key === "id") {

```

```

108:     const isDuplicate = localFields.some(
109:       (f, i) => i !== index && f.id.trim() === value.trim()
110:     );
111:     if (isDuplicate) {
112:       toast.error("? Field ID must be unique");
113:       return;
114:     }
115:   }
116:
117:   updated[index] = { ...updated[index], [key]: value };
118:   setLocalFields(updated);
119: };
120:
121: const onDragEnd = (result) => {
122:   if (!result.destination) return;
123:
124:   const reordered = [...localFields];
125:   const [moved] = reordered.splice(result.source.index, 1);
126:   reordered.splice(result.destination.index, 0, moved);
127:   setLocalFields(reordered);
128:   toast.info("? Field order updated (not saved yet)");
129: };
130:
131: return (
132:   <div className="max-w-6xl mx-auto px-4 py-8">
133:     <div className="flex justify-between items-center mb-6">
134:       <h2 className="text-2xl font-bold">?? Field Management</h2>
135:       <button
136:         onClick={addNewField}
137:         className="bg-green-600 hover:bg-green-700 text-white px-5 py-2 rounded-lg font-semibold"
138:       >
139:         ? Add New Field
140:       </button>
141:     </div>
142:
143:     <DragDropContext onDragEnd={onDragEnd}>
144:       <Draggable draggableId="fields">
145:         {(provided) => (
146:           <div ref={provided.innerRef} {...provided.draggableProps}>
147:             {localFields.map((field, index) => (
148:               <Draggable
149:                 key={field._uuid}
150:                 draggableId={field._uuid}
151:                 index={index}
152:               >
153:                 {(provided, snapshot) => (
154:                   <div
155:                     ref={provided.innerRef}
156:                     {...provided.draggableProps}
157:                     {...provided.dragHandleProps}
158:                     className={`border rounded-lg p-6 bg-white shadow-sm space-y-4 ${
159:                       snapshot.isDragging
160:                         ? "bg-gray-100 ring-2 ring-green-500"
161:                         : ""
162:                     }`}
163:                   >
164:                     <div className="flex justify-between items-center">
165:                       <h3 className="text-lg font-semibold">
166:                         {index + 1}. {field.label}
167:                       </h3>
168:                       <div className="flex gap-2">
169:                         <button
170:                           onClick={() => saveField(index)}
171:                           className="text-blue-600 hover:underline"
172:                         >
173:                           ? Save
174:                         </button>
175:                         <button
176:                           onClick={() =>
177:                             deleteField(field._originalId ?? field.id)
178:                           }
179:                           className="text-red-600 hover:underline"
180:                         >

```

```

181:         ?? Delete
182:     </button>
183: </div>
184: </div>
185:
186: <div className="grid grid-cols-1 md:grid-cols-2 gap-4">
187:     <FieldInput
188:         label="Field ID"
189:         value={field.id}
190:         onChange={(val) =>
191:             updateLocalField(index, "id", val.trim())
192:         }
193:     />
194:     <FieldInput
195:         label="Label"
196:         value={field.label}
197:         onChange={(val) =>
198:             updateLocalField(index, "label", val)
199:         }
200:     />
201:     <FieldSelect
202:         label="Category"
203:         value={field.category}
204:         options={categories}
205:         onChange={(val) =>
206:             updateLocalField(index, "category", val)
207:         }
208:     />
209:     <FieldInput
210:         label="Min"
211:         type="number"
212:         value={field.min}
213:         onChange={(val) =>
214:             updateLocalField(
215:                 index,
216:                 "min",
217:                 val ? parseInt(val) : undefined
218:             )
219:         }
220:     />
221:     <FieldInput
222:         label="Max"
223:         type="number"
224:         value={field.max}
225:         onChange={(val) =>
226:             updateLocalField(
227:                 index,
228:                 "max",
229:                 val ? parseInt(val) : undefined
230:             )
231:         }
232:     />
233:     <FieldTextarea
234:         label="High Recommendation"
235:         value={field.high}
236:         onChange={(val) =>
237:             updateLocalField(index, "high", val)
238:         }
239:     />
240:     <FieldTextarea
241:         label="Normal Recommendation"
242:         value={field.normal}
243:         onChange={(val) =>
244:             updateLocalField(index, "normal", val)
245:         }
246:     />
247:     <FieldTextarea
248:         label="Low Recommendation"
249:         value={field.low}
250:         onChange={(val) =>
251:             updateLocalField(index, "low", val)
252:         }
253:     />

```

```

254:             </div>
255:         </div>
256:     )}
257: </Draggable>
258: )})
259: {provided.placeholder}
260: </div>
261: )}
262: </Droppable>
263: </DragDropContext>
264: </div>
265: );
266: };
267:
268: // ? Reusable components
269: const FieldInput = ({
270:   label,
271:   value,
272:   onChange,
273:   type = "text",
274:   disabled = false,
275: }) => (
276:   <div>
277:     <label className="text-sm font-medium">{label}</label>
278:     <input
279:       type={type}
280:       disabled={disabled}
281:       className="w-full border rounded px-3 py-2"
282:       value={value ?? ""}
283:       onChange={(e) => onChange?.(e.target.value)}
284:     />
285:   </div>
286: );
287:
288: const FieldTextarea = ({ label, value, onChange }) => (
289:   <div>
290:     <label className="text-sm font-medium">{label}</label>
291:     <textarea
292:       rows={3}
293:       className="w-full border rounded px-3 py-2"
294:       value={value ?? ""}
295:       onChange={(e) => onChange?.(e.target.value)}
296:     />
297:   </div>
298: );
299:
300: const FieldSelect = ({ label, value, options, onChange }) => (
301:   <div>
302:     <label className="text-sm font-medium">{label}</label>
303:     <select
304:       className="w-full border rounded px-3 py-2"
305:       value={value ?? ""}
306:       onChange={(e) => onChange?.(e.target.value)}
307:     >
308:       <option value="">? None ?</option>
309:       {options.map((opt, i) => (
310:         <option key={i} value={opt}>
311:           {opt}
312:         </option>
313:       ))}
314:     </select>
315:   </div>
316: );
317:
318: export default AdminPanel;

```

■ File: src\components\common>LoadingSpinner.js

=====

■ File: src\components\common\ResetAll.js

```
=====
1: import React from "react";
2: import { toast } from "react-toastify";
3:
4: const ResetAll = () => {
5:   const handleReset = () => {
6:     const confirmReset = window.confirm(
7:       "This will erase all unsaved changes and restore the app to its default state. Continue?"
8:     );
9:
10:    if (!confirmReset) return;
11:
12:    // Clear form input, config, settings
13:    localStorage.removeItem("genomics_form_data");
14:    // Optionally remove other keys if added later (e.g., config, theme)
15:    // localStorage.removeItem('genomics_config');
16:
17:    toast.success("App state reset. Reloading...");
18:
19:    setTimeout(() => {
20:      window.location.reload(); // reload default from formConfig.json
21:    }, 1000);
22:  };
23:
24:  return (
25:    <button
26:      onClick={handleReset}
27:      className="bg-red-600 hover:bg-red-700 text-white px-6 py-3 rounded-lg font-semibold"
28:    >
29:      ?? Reset All
30:    </button>
31:  );
32: };
33:
34: export default ResetAll;
-----
```

■ File: src\components\common\TabNavigation.js

```
=====
1: import { useTheme } from "../../contexts/ThemeContext";
2:
3: const TabNavigation = ({ activeTab, setActiveTab }) => {
4:   const { theme, toggleTheme } = useTheme();
5:
6:   const tabs = [
7:     { id: "form", label: "? Form View" },
8:     { id: "admin", label: "?? Admin Panel" },
9:     { id: "settings", label: "?? Form Settings" },
10:  ];
11:
12:  return (
13:    <div className="bg-white dark:bg-gray-800 shadow-sm border-b sticky top-0 z-10">
14:      <div className="container mx-auto px-4">
15:        <div className="flex justify-between items-center py-4">
16:          {/* Tabs */}
17:          <div className="flex gap-2">
18:            {tabs.map((tab) => (
19:              <button
20:                key={tab.id}
21:                role="tab"
22:                aria-selected={activeTab === tab.id}
23:                className={`px-4 py-2 rounded-lg font-medium transition-all ${
24:                  activeTab === tab.id
25:                    ? "bg-green-600 text-white"
26:                    : "bg-gray-200 text-gray-800 hover:bg-gray-300 dark:bg-gray-700 dark:text-gray-100 dark
27:                }`}
28:                onClick={() => setActiveTab(tab.id)}
29:              >
30:                {tab.label}
31:              </button>
32:            )

```

```

33:         </div>
34:
35:         {/* Theme Toggle */}
36:         <button
37:             onClick={toggleTheme}
38:             className="text-sm px-3 py-2 bg-gray-100 dark:bg-gray-700 dark:text-white rounded"
39:             >
40:                 {theme === "dark" ? "?? Light" : "? Dark"}
41:             </button>
42:         </div>
43:     </div>
44: </div>
45: );
46: };
47:
48: export default TabNavigation;

```

■ File: src\components\common\Toasts.js

```

=====
1: import { ToastContainer } from "react-toastify";
2: import "react-toastify/dist/ReactToastify.css";
3:
4: const Toasts = () => {
5:     return (
6:         <>
7:             <ToastContainer
8:                 position="top-center"
9:                 autoClose={2000}
10:                 hideProgressBar={false}
11:                 newestOnTop={true}
12:                 closeOnClick
13:                 pauseOnFocusLoss
14:                 draggable
15:                 pauseOnHover
16:                 closeButton={false}
17:                 theme="light"
18:                 limit={3}
19:                 toastClassName="!bg-white/95 !backdrop-blur-md !rounded-xl !shadow-lg !shadow-black/10 !border !border-gray-100"
20:                 bodyClassName="!p-0 !m-0"
21:                 progressClassName="!bg-gradient-to-r !from-blue-500 !to-cyan-500 !h-1"
22:                 style={{
23:                     top: "20px",
24:                     left: "50%",
25:                     transform: "translateX(-50%)",
26:                     width: "400px",
27:                     maxWidth: "90vw",
28:                 }}
29:             </>
30:
31:             <style jsx global>{`
32:                 .Toastify__toast-container {
33:                     @apply font-sans;
34:                 }
35:
36:                 .Toastify__toast--success {
37:                     @apply !bg-green-50/95 !border-l-4 !border-l-green-500 !text-green-800;
38:                 }
39:
40:                 .Toastify__toast--error {
41:                     @apply !bg-red-50/95 !border-l-4 !border-l-red-500 !text-red-800;
42:                 }
43:
44:                 .Toastify__toast--warning {
45:                     @apply !bg-yellow-50/95 !border-l-4 !border-l-yellow-500 !text-yellow-800;
46:                 }
47:
48:                 .Toastify__toast--info {
49:                     @apply !bg-blue-50/95 !border-l-4 !border-l-blue-500 !text-blue-800;
50:                 }
51:             `}</style>
52:         </>

```



```

53:   });
54: };
55:
56: export default Toasts;

```

■ File: src\components\form\FieldInputRow.js

■ File: src\components\form\InputForm.js

```

1: import React, { useState, useEffect } from "react";
2: import { useExcelExport } from "../../hooks/useExcelExport";
3: import { useFormConfig } from "../../contexts/FormConfigContext";
4: import { usePDFGeneration } from "../../hooks/usePDFGeneration";
5: import { isValidScore } from "../../utils/helpers";
6: import { toast } from "react-toastify";
7:
8: const LOCAL_STORAGE_KEY = "genomics_form_data";
9:
10: const InputForm = ({ onGenerateReport, reportData }) => {
11:   const { state } = useFormConfig();
12:   const { generatePDF } = usePDFGeneration();
13:
14:   // Try restoring from localStorage
15:   const [formData, setFormData] = useState(() => {
16:     try {
17:       const stored = localStorage.getItem(LOCAL_STORAGE_KEY);
18:       return stored ? JSON.parse(stored) : {};
19:     } catch (e) {
20:       return {};
21:     }
22:   });
23:
24:   const { exportToExcel } = useExcelExport();
25:
26:   const [errors, setErrors] = useState({});
27:
28:   // ? Save to localStorage on formData change
29:   useEffect(() => {
30:     localStorage.setItem(LOCAL_STORAGE_KEY, JSON.stringify(formData));
31:   }, [formData]);
32:
33:   const handleInputChange = (fieldId, value) => {
34:     const updatedValue = value.replace(/\D/g, "");
35:     setFormData((prev) => ({
36:       ...prev,
37:       [fieldId]: updatedValue,
38:     }));
39:     setErrors((prev) => ({
40:       ...prev,
41:       [fieldId]: null,
42:     }));
43:   };
44:
45:   const validateForm = () => {
46:     const newErrors = {};
47:     state.fields.forEach((field) => {
48:       const value = formData[field.id];
49:       if (!isValidScore(value)) {
50:         newErrors[field.id] = "Score must be between 1 and 10";
51:       }
52:     });
53:     setErrors(newErrors);
54:     return Object.keys(newErrors).length === 0;
55:   };
56:
57:   const handleSubmit = (e) => {
58:     e.preventDefault();
59:     if (validateForm()) {

```

```

60:     onGenerateReport(formData);
61:     toast.success("Report generated and saved!");
62:   } else {
63:     toast.error("Please fix errors before submitting.");
64:   }
65: };
66:
67: const handleDownloadPDF = () => {
68:   if (!reportData || reportData.length === 0) {
69:     toast.warning("Please generate a report first.");
70:     return;
71:   }
72:   generatePDF(reportData);
73: };
74:
75: const handleClearForm = () => {
76:   if (window.confirm("Clear all form scores and reset saved state?")) {
77:     localStorage.removeItem(LOCAL_STORAGE_KEY);
78:     setFormData({});
79:     toast.info("?? Cleared saved input.");
80:   }
81: };
82:
83: return (
84:   <div className="w-full md:w-1/2 bg-white p-4 md:p-8 overflow-y-auto mobile-section">
85:     { /* ... header & description remain the same */ }
86:
87:     <form onSubmit={handleSubmit} className="space-y-3 md:space-y-4">
88:       <div className="grid grid-cols-1 gap-4">
89:         {state.fields.map((field, index) => (
90:           <div
91:             key={field.id}
92:             className="flex flex-col md:flex-row md:items-center"
93:           >
94:             <label className="w-full md:w-48 text-sm font-semibold mb-1 md:mb-0">
95:               {field.label}
96:             </label>
97:             <input
98:               type="number"
99:               min="1"
100:               max="10"
101:               value={formData[field.id] || ""}
102:               onChange={(e) => handleInputChange(field.id, e.target.value)}
103:               className={`border p-2 w-full md:w-20 text-center rounded
104:                 ${errors[field.id] ? "border-red-500" : "border-gray-300"}`}
105:             />
106:             {errors[field.id] && (
107:               <p className="text-red-600 text-xs mt-1 md:ml-4">
108:                 {errors[field.id]}
109:               </p>
110:             )}
111:           </div>
112:         ))}
113:       </div>
114:
115:       <div className="flex flex-col md:flex-row gap-2 mt-6">
116:         <button
117:           type="submit"
118:           className="bg-green-600 hover:bg-green-700 text-white px-6 py-3 rounded-lg font-semibold"
119:         >
120:           Generate Report
121:         </button>
122:
123:         <button
124:           type="button"
125:           onClick={handleDownloadPDF}
126:           className="bg-blue-600 hover:bg-blue-700 text-white px-6 py-3 rounded-lg font-semibold"
127:         >
128:           Download PDF
129:         </button>
130:
131:         <button
132:           type="button"

```

```

133:         onClick={handleClearForm}
134:         className="bg-gray-500 hover:bg-gray-600 text-white px-6 py-3 rounded-lg font-semibold"
135:     >
136:         Clear Input
137:     </button>
138:     <button
139:         type="button"
140:         onClick={() => exportToExcel(reportData)}
141:         className="bg-yellow-500 hover:bg-yellow-600 text-white px-6 py-3 rounded-lg font-semibold"
142:     >
143:         ? Export Excel
144:     </button>
145: </div>
146: </form>
147: </div>
148: );
149: };
150:
151: export default InputForm;

```

■ File: src\components\report\ReportOutput.js

```

45:         className="bg-gray-200 px-4 py-2 font-bold text-sm text-gray-700 border-l-4 border-gray-400
46:     >
47:         {currentCategory}
48:     </div>
49: );
50: }
51:
52: // Add field row
53: elements.push(
54:     <div
55:         key={field.id}
56:         className="flex flex-col md:flex-row items-stretch border-b border-gray-200"
57:     >
58:         {/* Field Label */}
59:         <div className="w-full md:w-48 px-3 py-3 text-center md:text-right bg-gray-100 md:bg-white">
60:             <div className="text-xs font-bold text-gray-700 uppercase leading-tight">
61:                 {field.label}
62:             </div>
63:         </div>
64:
65:         {/* Score */}
66:         <div className="w-full md:w-16 flex justify-center items-center py-3">
67:             <div
68:                 className={`w-10 h-10 ${getScoreColor(
69:                     score
70:                 )} text-white font-bold text-lg flex items-center justify-center rounded-full`}
71:             >
72:                 {score}
73:             </div>
74:         </div>
75:
76:         {/* Recommendations */}
77:         <div className="flex-1 px-3 py-3 flex flex-col md:flex-row">
78:             {/* High */}
79:             <div className="w-full md:w-1/3 md:pr-2 mb-3 md:mb-0">
80:                 <div
81:                     className={`text-xs font-bold mb-1 ${getTextStyle(
82:                         showHigh
83:                     )}`}
84:                 >
85:                     HIGH
86:                 </div>
87:                 <div
88:                     className={`text-xs leading-tight ${getTextStyle(
89:                         showHigh
90:                     )}`}
91:                 >
92:                     {field.high.split("\n").map((line, i, arr) => (
93:                         <React.Fragment key={i}>
94:                             {line}
95:                             {i < arr.length - 1 && <br />}
96:                         </React.Fragment>
97:                     ))}
98:                 </div>
99:             </div>
100:
101:             {/* Normal */}
102:             <div className="w-full md:w-1/3 md:px-2 mb-3 md:mb-0">
103:                 <div
104:                     className={`text-xs font-bold mb-1 ${getTextStyle(
105:                         showNormal
106:                     )}`}
107:                 >
108:                     NORMAL
109:                 </div>
110:                 <div
111:                     className={`text-xs leading-tight ${getTextStyle(
112:                         showNormal
113:                     )}`}
114:                 >
115:                     {field.normal?.split("\n").map((line, i, arr) => (
116:                         <React.Fragment key={i}>
117:                             {line}

```

```

118:             {i < arr.length - 1 && <br />}
119:         </React.Fragment>
120:     )}}
121: </div>
122: </div>
123:
124:     {/* Low */}
125:     <div className="w-full md:w-1/3 md:pl-2">
126:         <div
127:             className={`text-xs font-bold mb-1 ${getTextStyle(
128:                 showLow
129:             )}`}
130:         >
131:             LOW
132:         </div>
133:         <div
134:             className={`text-xs leading-tight ${getTextStyle(showLow)} `}
135:         >
136:             {field.low.split("\n").map((line, i, arr) => (
137:                 <React.Fragment key={i}>
138:                     {line}
139:                     {i < arr.length - 1 && <br />}
140:                 </React.Fragment>
141:             )}}
142:         </div>
143:     </div>
144: </div>
145: </div>
146: );
147:
148:     return elements;
149:     })}
150: </div>
151: </div>
152: );
153: };
154:
155: export default ReportOutput;

```

■ File: src\components\settings\CategoryManager.js

```

1: import { useState, useEffect } from "react";
2: import { toast } from "react-toastify";
3:
4: const API_URL = "http://localhost:5000";
5:
6: const CategoryManager = () => {
7:     const [categories, setCategories] = useState([]);
8:     const [newCategory, setNewCategory] = useState("");
9:     const [editIndex, setEditIndex] = useState(null);
10:    const [editedName, setEditedName] = useState("");
11:
12:    // ? Fetch from server
13:    const fetchCategories = async () => {
14:        try {
15:            const res = await fetch(`${API_URL}/categories`);
16:            const data = await res.json();
17:            setCategories(data);
18:        } catch (err) {
19:            toast.error("? Failed to load categories");
20:        }
21:    };
22:
23:    useEffect(() => {
24:        fetchCategories();
25:    }, []);
26:
27:    // ? Add
28:    const addCategory = async () => {
29:        const trimmed = newCategory.trim();
30:        if (!trimmed) return;

```

```

31:
32:     const exists = categories.some((c) => c.name === trimmed);
33:     if (exists) {
34:         toast.error("? Category already exists");
35:         return;
36:     }
37:
38:     const res = await fetch(`${API_URL}/categories`, {
39:         method: "POST",
40:         headers: { "Content-Type": "application/json" },
41:         body: JSON.stringify({ name: trimmed }),
42:     });
43:
44:     if (res.ok) {
45:         toast.success("? Category added");
46:         setNewCategory("");
47:         fetchCategories(); // ? refresh list
48:     }
49: };
50:
51: // ?? Start editing
52: const startEdit = (i, name) => {
53:     setEditIndex(i);
54:     setEditedName(name);
55: };
56:
57: // ? Confirm edit
58: const confirmEdit = async () => {
59:     if (!editedName.trim()) return;
60:
61:     const cat = categories[editIndex];
62:
63:     const res = await fetch(`${API_URL}/categories/${cat.id}`, {
64:         method: "PUT",
65:         headers: { "Content-Type": "application/json" },
66:         body: JSON.stringify({ ...cat, name: editedName.trim() }),
67:     });
68:
69:     if (res.ok) {
70:         toast.success("?? Category updated");
71:         setEditIndex(null);
72:         setEditedName("");
73:         fetchCategories(); // ? refresh
74:     } else {
75:         toast.error("? Failed to update category");
76:     }
77: };
78:
79: // ?? Delete
80: const deleteCategory = async (index) => {
81:     const cat = categories[index];
82:
83:     if (!window.confirm(`Delete category "${cat.name}"?`)) return;
84:
85:     const res = await fetch(`${API_URL}/categories/${cat.id}`, {
86:         method: "DELETE",
87:     });
88:
89:     if (res.ok) {
90:         toast.info("?? Category deleted");
91:         fetchCategories(); // ? refresh
92:     } else {
93:         toast.error("? Failed to delete category");
94:     }
95: };
96:
97: return (
98:     <div className="mt-10 border-t pt-6">
99:         <h3 className="text-xl font-semibold mb-4">?? Category Manager</h3>
100:
101:         <div className="flex gap-2 mb-4">
102:             <input
103:                 type="text"

```

```

104:         className="border px-3 py-2 rounded w-full"
105:         placeholder="New category name"
106:         value={newCategory}
107:         onChange={(e) => setNewCategory(e.target.value)}
108:     />
109:     <button
110:         onClick={addCategory}
111:         className="bg-green-600 hover:bg-green-700 text-white px-4 py-2 rounded"
112:     >
113:         ? Add
114:     </button>
115: </div>
116:
117: <div className="space-y-3">
118:     {categories.map((cat, i) => (
119:         <div
120:             key={cat.id}
121:             className="flex items-center justify-between bg-white border p-3 rounded"
122:         >
123:             {editIndex === i ? (
124:                 <>
125:                     <input
126:                         type="text"
127:                         className="border px-2 py-1 rounded w-full mr-2"
128:                         value={editedName}
129:                         onChange={(e) => setEditedName(e.target.value)}
130:                     />
131:                     <button
132:                         onClick={confirmEdit}
133:                         className="bg-blue-600 text-white px-3 py-1 rounded"
134:                     >
135:                         ?
136:                     </button>
137:                 </>
138:             ) : (
139:                 <>
140:                     <span>{cat.name}</span>
141:                     <div className="flex gap-2">
142:                         <button
143:                             onClick={() => startEdit(i, cat.name)}
144:                             className="text-blue-600 hover:underline"
145:                         >
146:                             ?? Edit
147:                         </button>
148:                         <button
149:                             onClick={() => deleteCategory(i)}
150:                             className="text-red-600 hover:underline"
151:                         >
152:                             ?? Delete
153:                         </button>
154:                     </div>
155:                 </>
156:             )}
157:         </div>
158:     )]}
159: </div>
160: </div>
161: );
162: };
163:
164: export default CategoryManager;

```

File: src\components\settings\SettingsPanel.js

```

1: import React, { useState, useRef } from "react";
2: import { useFormConfig } from "../../contexts/FormConfigContext";
3: import { useConfigImportExport } from "../../hooks/useConfigImportExport";
4: import { toast } from "react-toastify";
5: import ResetAll from "../../common/ResetAll";
6: import CategoryManager from "../CategoryManager";
7:

```

```

8: const API_URL = "http://localhost:5000";
9:
10: const SettingsPanel = () => {
11:   const { state, dispatch } = useFormConfig();
12:
13:   const [settings, setSettings] = useState({
14:     title: state.title,
15:     quote: state.quote,
16:     description: state.description,
17:     headerColor: state.headerColor,
18:     highThreshold: state.highThreshold,
19:     colors: {
20:       low: state.colors.low,
21:       medium: state.colors.medium,
22:       high: state.colors.high,
23:     },
24:   });
25:
26:   const fileInputRef = useRef(null);
27:   const { exportConfig, importConfig } = useConfigImportExport();
28:
29:   const handleImportClick = () => {
30:     fileInputRef.current?.click();
31:   };
32:
33:   const handleFileSelected = (e) => {
34:     const file = e.target.files?.[0];
35:     if (!file || !file.name.endsWith(".json")) {
36:       toast.error("Please upload a valid JSON file.");
37:       return;
38:     }
39:     importConfig(file);
40:     e.target.value = ""; // reset input
41:   };
42:
43:   // ? Update local state as user types
44:   const handleChange = (key, value) => {
45:     setSettings((prev) => ({
46:       ...prev,
47:       [key]: value,
48:     }));
49:   };
50:
51:   const handleColorChange = (level, value) => {
52:     setSettings((prev) => ({
53:       ...prev,
54:       colors: {
55:         ...prev.colors,
56:         [level]: value,
57:       },
58:     }));
59:   };
60:
61:   // ? Save to backend
62:   const applySettings = async () => {
63:     try {
64:       const res = await fetch(`${API_URL}/settings`, {
65:         method: "PUT",
66:         headers: { "Content-Type": "application/json" },
67:         body: JSON.stringify(settings),
68:       });
69:
70:       if (!res.ok) throw new Error("Failed to save settings");
71:
72:       dispatch({ type: "UPDATE_SETTINGS", settings }); // update UI too
73:       toast.success("? Settings saved to server!");
74:     } catch (error) {
75:       console.error(error);
76:       toast.error("? Failed to save settings");
77:     }
78:   };
79:
80:   const resetSettings = () => {

```



```

81:     if (
82:         window.confirm("Are you sure you want to reset all settings to default?")
83:     ) {
84:         window.location.reload(); // simplest way
85:     }
86: };
87:
88: return (
89:     <div className="max-w-4xl mx-auto px-4 py-8">
90:         <h2 className="bg-white text-2xl font-bold mb-6">
91:             ?? Form Customization
92:         </h2>
93:
94:         <div className="grid grid-cols-1 md:grid-cols-2 gap-6">
95:             {/* Left Section */}
96:             <div className="bg-white rounded-lg shadow-sm p-6 space-y-4">
97:                 <h3 className="text-lg font-semibold">? Header Info</h3>
98:
99:                 <div>
100:                     <label className="block text-sm font-medium mb-1">Main Title</label>
101:                     <input
102:                         type="text"
103:                         value={settings.title}
104:                         onChange={(e) => handleChange("title", e.target.value)}
105:                         className="w-full border rounded px-3 py-2"
106:                     />
107:                 </div>
108:
109:                 <div>
110:                     <label className="block text-sm font-medium mb-1">Quote</label>
111:                     <textarea
112:                         rows={2}
113:                         value={settings.quote}
114:                         onChange={(e) => handleChange("quote", e.target.value)}
115:                         className="w-full border rounded px-3 py-2"
116:                     />
117:                 </div>
118:
119:                 <div>
120:                     <label className="block text-sm font-medium mb-1">
121:                         Description
122:                     </label>
123:                     <textarea
124:                         rows={4}
125:                         value={settings.description}
126:                         onChange={(e) => handleChange("description", e.target.value)}
127:                         className="w-full border rounded px-3 py-2"
128:                     />
129:                 </div>
130:
131:                 <div>
132:                     <label className="block text-sm font-medium mb-1">
133:                         Header Background Color
134:                     </label>
135:                     <input
136:                         type="color"
137:                         value={settings.headerColor}
138:                         onChange={(e) => handleChange("headerColor", e.target.value)}
139:                         className="h-10 w-full border rounded"
140:                     />
141:                 </div>
142:             </div>
143:
144:             {/* Right Section */}
145:             <div className="bg-white rounded-lg shadow-sm p-6 space-y-4">
146:                 <h3 className="text-lg font-semibold">? Score Logic</h3>
147:
148:                 <div>
149:                     <label className="block text-sm font-medium mb-1">
150:                         High Score Threshold (?)
151:                     </label>
152:                     <input
153:                         type="number"

```

```

154:         min="1"
155:         max="10"
156:         value={settings.highThreshold}
157:         onChange={(e) =>
158:             handleChange("highThreshold", parseInt(e.target.value))
159:         }
160:         className="w-full border rounded px-3 py-2"
161:     />
162: </div>
163:
164: <h3 className="text-lg font-semibold mt-6">? Score Colors</h3>
165:
166: <div className="space-y-2">
167:     <ColorInput
168:         label="High"
169:         value={settings.colors.high}
170:         onChange={(val) => handleColorChange("high", val)}
171:     />
172:     <ColorInput
173:         label="Medium"
174:         value={settings.colors.medium}
175:         onChange={(val) => handleColorChange("medium", val)}
176:     />
177:     <ColorInput
178:         label="Low"
179:         value={settings.colors.low}
180:         onChange={(val) => handleColorChange("low", val)}
181:     />
182: </div>
183: </div>
184: </div>
185:
186: { /* Buttons */ }
187: <div className="mt-6 flex flex-wrap gap-4">
188:     <button
189:         onClick={applySettings}
190:         className="bg-green-600 hover:bg-green-700 text-white px-6 py-3 rounded-lg font-semibold"
191:     >
192:         ? Apply Settings
193:     </button>
194:     <button
195:         onClick={resetSettings}
196:         className="bg-gray-600 hover:bg-gray-700 text-white px-6 py-3 rounded-lg font-semibold"
197:     >
198:         ?? Reset to Default
199:     </button>
200:     <button
201:         onClick={exportConfig}
202:         className="bg-blue-600 hover:bg-blue-700 text-white px-6 py-3 rounded-lg font-semibold"
203:     >
204:         ? Export Config (.json)
205:     </button>
206:
207:     <button
208:         onClick={handleImportClick}
209:         className="bg-purple-600 hover:bg-purple-700 text-white px-6 py-3 rounded-lg font-semibold"
210:     >
211:         ? Import Config (.json)
212:     </button>
213:
214:     <div className="mt-2">
215:         <ResetAll />
216:     </div>
217:
218:     <input
219:         type="file"
220:         accept=".json"
221:         ref={fileInputRef}
222:         className="hidden"
223:         onChange={handleFileSelected}
224:     />
225: </div>
226:

```

```

227:      {/* ?? Category management (uses API now) */}
228:      <div className="mt-6">
229:        <CategoryManager />
230:      </div>
231:    </div>
232:  );
233: };
234:
235: const ColorInput = ({ label, value, onChange }) => (
236:   <div>
237:     <label className="block text-sm font-medium mb-1">{label}</label>
238:     <input
239:       type="color"
240:       value={value}
241:       onChange={(e) => onChange(e.target.value)}
242:       className="h-10 w-full border rounded"
243:     />
244:   </div>
245: );
246:
247: export default SettingsPanel;

```

■ File: src\contexts\FormConfigContext.js

```

1: import React, { createContext, useContext, useReducer, useEffect } from "react";
2:
3: // Base URL of your json-server
4: const API_URL = "http://localhost:5000";
5:
6: const formConfigReducer = (state, action) => {
7:   switch (action.type) {
8:     case "IMPORT_CONFIG":
9:       return { ...action.config };
10:
11:     case "ADD_FIELD":
12:       return { ...state, fields: [...state.fields, action.field] };
13:
14:     case "UPDATE_FIELD":
15:       if (action.property === "full") {
16:         return {
17:           ...state,
18:           fields: state.fields.map((field, i) =>
19:             i === action.index ? action.value : field
20:           ),
21:         };
22:       }
23:       return {
24:         ...state,
25:         fields: state.fields.map((field, i) =>
26:           i === action.index
27:             ? { ...field, [action.property]: action.value }
28:             : field
29:         ),
30:       };
31:
32:     case "DELETE_FIELD":
33:       return {
34:         ...state,
35:         fields: state.fields.filter((_, i) => i !== action.index),
36:       };
37:
38:     case "REORDER_FIELDS":
39:       return { ...state, fields: action.fields };
40:
41:     case "UPDATE_SETTINGS":
42:       return { ...state, ...action.settings };
43:
44:     case "ADD_CATEGORY":
45:       return {
46:         ...state,
47:         categories: [

```

```

48:         ...state.categories,
49:         { id: Date.now(), name: action.name },
50:     ],
51:     };
52:
53: case "UPDATE_CATEGORY":
54:     return {
55:         ...state,
56:         categories: state.categories.map((cat, i) =>
57:             i === action.index ? { ...cat, name: action.newName } : cat
58:         ),
59:         fields: state.fields.map((field) =>
60:             field.category === state.categories[action.index]?.name
61:             ? { ...field, category: action.newName }
62:             : field
63:         ),
64:     };
65:
66: case "DELETE_CATEGORY":
67:     const catName = state.categories[action.index]?.name;
68:     return {
69:         ...state,
70:         categories: state.categories.filter((_, i) => i !== action.index),
71:         fields: state.fields.map((field) =>
72:             field.category === catName ? { ...field, category: "" } : field
73:         ),
74:     };
75:
76: default:
77:     return state;
78: }
79: };
80:
81: const FormConfigContext = createContext(null);
82:
83: export const FormConfigProvider = ({ children }) => {
84:     const [state, dispatch] = useReducer(formConfigReducer, {
85:         title: "",
86:         quote: "",
87:         description: "",
88:         headerColor: "",
89:         colors: { low: "", medium: "", high: "" },
90:         highThreshold: 6,
91:         categories: [],
92:         fields: [],
93:     });
94:
95:     // ? Load config from json-server at startup
96:     useEffect(() => {
97:         const loadFromServer = async () => {
98:             try {
99:                 const [settingsRes, categoriesRes, fieldsRes] = await Promise.all([
100:                     fetch(`${API_URL}/settings`),
101:                     fetch(`${API_URL}/categories`),
102:                     fetch(`${API_URL}/fields`),
103:                 ]);
104:
105:                 const settings = await settingsRes.json();
106:                 const categories = await categoriesRes.json();
107:                 const fields = await fieldsRes.json();
108:
109:                 dispatch({
110:                     type: "IMPORT_CONFIG",
111:                     config: {
112:                         ...settings,
113:                         categories, // array of { id, name }
114:                         fields, // array of full field objects
115:                     },
116:                 });
117:             } catch (err) {
118:                 console.error("Failed to fetch config from API", err);
119:             }
120:         };

```

```

121:
122:     loadFromServer();
123: }, []);
124:
125: return (
126:     <FormConfigContext.Provider value={{ state, dispatch }}>
127:         {children}
128:     </FormConfigContext.Provider>
129: );
130: };
131:
132: export const useFormConfig = () => {
133:     const context = useContext(FormConfigContext);
134:     if (!context)
135:         throw new Error("useFormConfig must be used within a FormConfigProvider");
136:     return context;
137: };

```

■ File: src\contexts\ThemeContext.js

```

=====
1: import React, { createContext, useEffect, useState, useContext } from "react";
2:
3: const ThemeContext = createContext();
4:
5: export const ThemeProvider = ({ children }) => {
6:     const [theme, setTheme] = useState("light");
7:
8:     useEffect(() => {
9:         const stored = localStorage.getItem("theme");
10:        if (stored === "dark") {
11:            document.documentElement.classList.add("dark");
12:            setTheme("dark");
13:        }
14:    }, []);
15:
16:    const toggleTheme = () => {
17:        const nextTheme = theme === "dark" ? "light" : "dark";
18:        setTheme(nextTheme);
19:        localStorage.setItem("theme", nextTheme);
20:        document.documentElement.classList.toggle("dark");
21:    };
22:
23:    return (
24:        <ThemeContext.Provider value={{ theme, toggleTheme }}>
25:            {children}
26:        </ThemeContext.Provider>
27:    );
28: };
29:
30: export const useTheme = () => useContext(ThemeContext);

```

■ File: src\hooks\useConfigImportExport.js

```

=====
1: import { useCallback } from "react";
2: import { useFormConfig } from "../contexts/FormConfigContext";
3:
4: const API_URL = "http://localhost:5000";
5:
6: export const useConfigImportExport = () => {
7:     const { state, dispatch } = useFormConfig();
8:
9:     // ?? Export config from current state to file
10:    const exportConfig = useCallback(() => {
11:        const dataStr = JSON.stringify(state, null, 2);
12:        const blob = new Blob([dataStr], { type: "application/json" });
13:        const url = URL.createObjectURL(blob);
14:
15:        const link = document.createElement("a");
16:        link.href = url;

```

```

17:     link.download = "genomics-form-config.json";
18:     link.click();
19:     URL.revokeObjectURL(url);
20: }, [state]);
21:
22: // ?? Import config and write to all backend endpoints
23: const importConfig = useCallback(
24:   async (file) => {
25:     const reader = new FileReader();
26:
27:     reader.onload = async (e) => {
28:       try {
29:         const parsed = JSON.parse(e.target.result);
30:
31:         // Validate structure
32:         if (
33:           !parsed.fields ||
34:           !parsed.categories ||
35:           !parsed.title ||
36:           !parsed.colors
37:         ) {
38:           alert("Invalid configuration file.");
39:           return;
40:         }
41:
42:         // ?? Overwrite ALL current data via PUT/DELETE/POST
43:         await Promise.all([
44:           // Clear old fields
45:           fetch(`${API_URL}/fields`)
46:             .then((res) => res.json())
47:             .then((existing) =>
48:               Promise.all(
49:                 existing.map((f) =>
50:                   fetch(`${API_URL}/fields/${f.id}`, { method: "DELETE" })
51:                 )
52:             ),
53:           ],
54:
55:           // Clear old categories
56:           fetch(`${API_URL}/categories`)
57:             .then((res) => res.json())
58:             .then((existing) =>
59:               Promise.all(
60:                 existing.map((c) =>
61:                   fetch(`${API_URL}/categories/${c.id}`, { method: "DELETE" })
62:                 )
63:             ),
64:           ],
65:         ]);
66:
67:         // ? Upload settings
68:         await fetch(`${API_URL}/settings`, {
69:           method: "PUT",
70:           headers: { "Content-Type": "application/json" },
71:           body: JSON.stringify({
72:             title: parsed.title,
73:             quote: parsed.quote,
74:             description: parsed.description,
75:             headerColor: parsed.headerColor,
76:             colors: parsed.colors,
77:             highThreshold: parsed.highThreshold,
78:           }),
79:         });
80:
81:         // ? Upload categories
82:         for (const cat of parsed.categories) {
83:           await fetch(`${API_URL}/categories`, {
84:             method: "POST",
85:             headers: { "Content-Type": "application/json" },
86:             body: JSON.stringify(
87:               typeof cat === "string" ? { name: cat } : cat
88:             ),
89:           });

```

```

90:         }
91:
92:         // ? Upload fields
93:         for (const field of parsed.fields) {
94:             await fetch(`${API_URL}/fields`, {
95:                 method: "POST",
96:                 headers: { "Content-Type": "application/json" },
97:                 body: JSON.stringify(field),
98:             });
99:         }
100:
101:         // ? Dispatch to update UI immediately
102:         dispatch({ type: "IMPORT_CONFIG", config: parsed });
103:         alert("? Configuration imported and saved to server.");
104:     } catch (err) {
105:         console.error(err);
106:         alert("? Error importing config: " + err.message);
107:     }
108: };
109:
110:     reader.readAsText(file);
111: },
112: [dispatch]
113: );
114:
115: return { exportConfig, importConfig };
116: };

```

■ File: src\hooks\useExcelExport.js

```

1: import * as XLSX from "xlsx";
2:
3: export const useExcelExport = () => {
4:     const exportToExcel = (reportData) => {
5:         if (!reportData || reportData.length === 0) {
6:             alert("No report data to export.");
7:             return;
8:         }
9:
10:         const exportRows = reportData.map((item) => {
11:             const { field, score, showHigh, showNormal, showLow } = item;
12:
13:             let recommendation = "";
14:             if (showHigh) recommendation = field.high;
15:             else if (showNormal) recommendation = field.normal;
16:             else if (showLow) recommendation = field.low;
17:
18:             return {
19:                 Field: field.label,
20:                 Category: field.category || "Uncategorized",
21:                 Score: score,
22:                 Recommendation: recommendation.replace(/\n/g, " "),
23:             };
24:         });
25:
26:         const worksheet = XLSX.utils.json_to_sheet(exportRows);
27:         const workbook = XLSX.utils.book_new();
28:         XLSX.utils.book_append_sheet(workbook, worksheet, "Genomics Report");
29:
30:         XLSX.writeFile(workbook, "genomics_diet_report.xlsx");
31:     };
32:
33:     return { exportToExcel };
34: };

```

■ File: src\hooks\usePDFGeneration.js

```

1: import { useCallback } from "react";
2: import { jsPDF } from "jspdf";

```

```

3: import { useFormConfig } from "../contexts/FormConfigContext";
4: import { hexToRgb } from "../utils/helpers";
5:
6: export const usePDFGeneration = () => {
7:   const { state } = useFormConfig();
8:
9:   // Base64 logo (optional)
10:  const leftLogoUrl = "/left.png";
11:  const rightLogoUrl = "/right.png";
12:
13:  const generatePDF = useCallback(
14:    (reportData) => {
15:      if (!reportData || reportData.length === 0) {
16:        alert("No report data found.");
17:        return;
18:      }
19:
20:      const doc = new jsPDF();
21:      const pageHeight = doc.internal.pageSize.height;
22:      const pageWidth = doc.internal.pageSize.width;
23:      const margin = 10;
24:      let y = 20;
25:
26:      // -----
27:      // Header section
28:      // -----
29:      doc.setFillColor(...hexToRgb(state.headerColor));
30:      doc.rect(margin, y, pageWidth - margin * 2, 20, "F");
31:      doc.setTextColor(255, 255, 255);
32:      doc.setFontSize(16);
33:      doc.setFont(undefined, "bold");
34:      doc.text(state.title, pageWidth / 2, y + 13, { align: "center" });
35:      y += 30;
36:
37:      // Quote
38:      doc.setTextColor(0, 0, 0);
39:      doc.setFontSize(11);
40:      doc.setFont(undefined, "bold");
41:      doc.text(state.quote, pageWidth / 2, y, { align: "center" });
42:      y += 10;
43:
44:      // Description
45:      doc.setFont(undefined, "normal");
46:      doc.setFontSize(10);
47:      const descLines = doc.splitTextToSize(
48:        state.description,
49:        pageWidth - 2 * margin
50:      );
51:      doc.text(descLines, margin, y);
52:      y += descLines.length * 5 + 5;
53:
54:      let currentCategory = null;
55:
56:      reportData.forEach((item, index) => {
57:        const { field, score, showHigh, showNormal, showLow } = item;
58:
59:        // Insert page break if needed
60:        const estimatedFieldHeight = 40; // Rough estimate
61:        if (y + estimatedFieldHeight > pageHeight - 20) {
62:          doc.addPage();
63:          y = 20;
64:        }
65:
66:        // Render category title if needed
67:        if (field.category && field.category !== currentCategory) {
68:          currentCategory = field.category;
69:          doc.setFontSize(12);
70:          doc.setFont(undefined, "bold");
71:          doc.setTextColor(50, 50, 50);
72:          doc.text(currentCategory, margin, y);
73:          y += 8;
74:        }
75:

```



```

76:         // Field Label
77:         doc.setFontSize(10);
78:         doc.setFont(undefined, "bold");
79:         doc.setTextColor(0, 0, 0);
80:         doc.text(field.label, margin, y);
81:         y += 6;
82:
83:         // Score Circle
84:         const circleX = margin + 5;
85:         doc.setDrawColor(0);
86:         const rgb =
87:             score >= state.highThreshold
88:                 ? hexToRgb(state.colors.high)
89:                 : score >= 4
90:                 ? hexToRgb(state.colors.medium)
91:                 : hexToRgb(state.colors.low);
92:
93:         doc.setFillColor(...rgb);
94:         doc.circle(circleX, y + 5, 4, "FD");
95:         doc.setTextColor(255, 255, 255);
96:         doc.setFontSize(8);
97:         doc.text(String(score), circleX, y + 6, { align: "center" });
98:
99:         y += 12;
100:
101:         // Render matching text
102:         const renderTextBlock = (label, text, active) => {
103:             if (!text) return;
104:             doc.setFontSize(9);
105:             doc.setFont(undefined, "bold");
106:             doc.setTextColor(
107:                 active ? 0 : 180,
108:                 active ? 0 : 180,
109:                 active ? 0 : 180
110:             );
111:             doc.text(`${label}:`, margin, y);
112:             y += 5;
113:
114:             doc.setFont(undefined, "normal");
115:             const lines = doc.splitTextToSize(text, pageWidth - 2 * margin);
116:             lines.forEach((line) => {
117:                 if (y + 6 > pageHeight - 15) {
118:                     doc.addPage();
119:                     y = 20;
120:                 }
121:                 doc.text(line, margin, y);
122:                 y += 5;
123:             });
124:             y += 2;
125:         };
126:
127:         renderTextBlock("HIGH", field.high, showHigh);
128:         renderTextBlock("NORMAL", field.normal, showNormal);
129:         renderTextBlock("LOW", field.low, showLow);
130:
131:         y += 4;
132:     });
133:
134:     // Footer (optional logos)
135:     const addLogos = () => {
136:         try {
137:             doc.addImage(leftLogoUrl, "PNG", 10, pageHeight - 20, 30, 10);
138:             doc.addImage(
139:                 rightLogoUrl,
140:                 "PNG",
141:                 pageWidth - 40,
142:                 pageHeight - 20,
143:                 30,
144:                 10
145:             );
146:         } catch (e) {
147:             console.warn("Logo failed to load. Skipping...");
148:         }

```

```

149:     };
150:     addLogos();
151:
152:     // Save file
153:     doc.save("genomics-diet-report.pdf");
154:   },
155:   [state]
156: );
157:
158: return { generatePDF };
159: };

```

■ File: src\hooks\useReportGeneration.js

```

=====
1: import { useState, useCallback } from 'react';
2: import { useFormConfig } from '../contexts/FormConfigContext';
3: import { isValidScore } from '../utils/helpers';
4:
5: /**
6:  * Hook: useReportGeneration
7:  * Transforms form input into structured report data based on score thresholds
8:  */
9: export const useReportGeneration = () => {
10:   const { state } = useFormConfig(); // Get field config and settings from context
11:   const [reportData, setReportData] = useState([]);
12:
13:   /**
14:    * generateReport
15:    * @param {Object} formData - { fieldId: score }
16:    */
17:   const generateReport = useCallback((formData) => {
18:     const processedData = [];
19:
20:     // Loop through all fields from config
21:     state.fields.forEach((field) => {
22:       const rawValue = formData[field.id];
23:       const score = parseInt(rawValue);
24:
25:       if (!isValidScore(score)) {
26:         return; // Skip invalid scores
27:       }
28:
29:       // Determine logic: high / normal / low
30:       const isHigh = score >= state.highThreshold;
31:       const isNormal = score >= 4 && score < state.highThreshold;
32:       const isLow = score < 4;
33:
34:       processedData.push({
35:         field, // full field config
36:         score, // numeric score
37:         showHigh: isHigh,
38:         showNormal: isNormal,
39:         showLow: isLow,
40:       });
41:     });
42:
43:     // Update state
44:     setReportData(processedData);
45:
46:     // Return for immediate use
47:     return processedData;
48:   }, [state.fields, state.highThreshold]);
49:
50:   return { reportData, generateReport };
51: };
=====

```

■ File: src\index.css

```
=====
1: /* Tailwind's base styles */
2: @tailwind base;
3: @tailwind components;
4: @tailwind utilities;
5:
6: /* Custom global styles */
7: @layer base {
8:   /* HTML transition for smooth dark mode switching */
9:   html {
10:     transition: background-color 0.3s ease, color 0.3s ease;
11:   }
12:
13:   /* Body settings for light and dark mode */
14:   body {
15:     @apply bg-white text-gray-900 dark:bg-gray-900 dark:text-white; /* Global body colors */
16:   }
17:
18:   /* Customizations for links */
19:   a {
20:     @apply text-blue-600 dark:text-blue-400; /* Links: light mode blue, dark mode lighter blue */
21:   }
22:
23:   /* Buttons with default light/dark mode background */
24:   button {
25:     @apply bg-gray-300 dark:bg-gray-700 text-gray-800 dark:text-gray-100; /* Default button styles */
26:   }
27:
28:   /* Background color for any white-background elements */
29:   .bg-white {
30:     @apply dark:bg-gray-900; /* Switches background color to dark mode */
31:   }
32:
33:   /* Text color for general text */
34:   .text-gray-900 {
35:     @apply dark:text-white; /* Changes text color to white in dark mode */
36:   }
37:
38:   /* Form elements: inputs, textareas, and selects */
39:   input,
40:   textarea,
41:   select {
42:     @apply bg-white dark:bg-gray-800 text-black dark:text-white border dark:border-gray-700;
43:   }
44:
45:   /* Focused state of inputs, textareas, and selects */
46:   input:focus,
47:   textarea:focus,
48:   select:focus {
49:     @apply ring-2 ring-blue-500 dark:ring-blue-300;
50:   }
51:
52:   /* Global font and smoothing */
53:   body {
54:     margin: 0;
55:     font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", "Roboto",
56:       "Oxygen", "Ubuntu", "Cantarell", "Fira Sans", "Droid Sans",
57:       "Helvetica Neue", sans-serif;
58:     -webkit-font-smoothing: antialiased;
59:     -moz-osx-font-smoothing: grayscale;
60:   }
61:
62:   /* Code styles for code blocks */
63:   code {
64:     font-family: source-code-pro, Menlo, Monaco, Consolas, "Courier New",
65:       monospace;
66:   }
67:
68:   /* Global styling for text input elements */
69:   input[type="text"],
70:   input[type="number"],
71:   input[type="email"],
```

```

72:   textarea,
73:   select {
74:     @apply border-2 rounded-lg p-2 dark:border-gray-600;
75:   }
76:
77:   /* Button hover and focus states */
78:   button:hover {
79:     @apply bg-gray-200 dark:bg-gray-700; /* Darker button on hover */
80:   }
81:
82:   /* Ensuring links are visible in dark mode */
83:   .text-blue-600 {
84:     @apply dark:text-blue-400; /* Light blue in normal mode, changes to darker in dark mode */
85:   }
86:
87:   /* Customize card elements for dark mode */
88:   .card {
89:     @apply bg-white dark:bg-gray-800 text-black dark:text-white border dark:border-gray-700;
90:   }
91:
92:   /* Customize borders */
93:   .border-gray-300 {
94:     @apply dark:border-gray-600; /* Change border color in dark mode */
95:   }
96:
97:   /* Ensure smooth transitions when toggling dark/light mode */
98:   .transition-all {
99:     transition: all 0.3s ease; /* Apply smooth transitions */
100:  }
101: }

```

■ File: src\index.js

```

=====
1: import React from 'react';
2: import ReactDOM from 'react-dom/client';
3: import './index.css';
4: import App from './App';
5: import reportWebVitals from './reportWebVitals';
6:
7: const root = ReactDOM.createRoot(document.getElementById('root'));
8: root.render(
9:   <React.StrictMode>
10:    <App />
11:  </React.StrictMode>
12: );
13:
14: // If you want to start measuring performance in your app, pass a function
15: // to log results (for example: reportWebVitals(console.log))
16: // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
17: reportWebVitals();

```

■ File: src\logo.svg

```

=====
<svg xmlns="http://www.w3.org/2000/svg" viewBox="0 0 841.9 595.3"><g fill="#61DAFB"><path d="M666.3 296.5c0-32.5

```

■ File: src\reportWebVitals.js

```

=====
1: const reportWebVitals = onPerfEntry => {
2:   if (onPerfEntry && onPerfEntry instanceof Function) {
3:     import('web-vitals').then(({ getCLS, getFID, getFCP, getLCP, getTTFB }) => {
4:       getCLS(onPerfEntry);
5:       getFID(onPerfEntry);
6:       getFCP(onPerfEntry);
7:       getLCP(onPerfEntry);
8:       getTTFB(onPerfEntry);
9:     });
10:  }

```

```
11: };
12:
13: export default reportWebVitals;
```

■ File: src\setupTests.js

```
1: // jest-dom adds custom jest matchers for asserting on DOM nodes.
2: // allows you to do things like:
3: // expect(element).toHaveTextContent(/react/i)
4: // learn more: https://github.com/testing-library/jest-dom
5: import '@testing-library/jest-dom';
```

■ File: src\utils\constants.js

■ File: src\utils\helpers.js

```
1: // Convert HEX color to RGB array for jsPDF
2: export function hexToRgb(hex) {
3:   const result = /^#?([a-f\d]{2})([a-f\d]{2})([a-f\d]{2})$/i.exec(hex);
4:   return result
5:     ? [
6:       parseInt(result[1], 16),
7:       parseInt(result[2], 16),
8:       parseInt(result[3], 16)
9:     ]
10:    : [0, 0, 0];
11: }
12:
13: // Simple validation helper
14: export const isValidScore = (value) => {
15:   const num = parseInt(value);
16:   return !isNaN(num) && num >= 1 && num <= 10;
17: };
```

■ File: tailwind.config.js

```
1: /** @type {import('tailwindcss').Config} */
2: module.exports = {
3:   darkMode: "class", // ? enables class-based dark mode
4:   content: ["/src/**/*.{js,jsx}"],
5:   theme: {
6:     extend: {},
7:   },
8:   plugins: [],
9: };
```
