

■ TypeScript Project Code Export

■ TypeScript/TSX Files & Safe Config:

```
- [TSX] app\admin\comprehensive-admin.tsx
- [TSX] app\admin\page.tsx
- [TS] app\api\comprehensive-report-data\route.ts
- [TS] app\api\report-data\route.ts
- [TS] app\api\upload-image\route.ts
- [TSX] app\layout.tsx
- [TSX] app\page.tsx
- [TSX] app\report\[id]\page.tsx
- [TSX] app\report\pdf\page.tsx
- [TSX] app\report\preview\page.tsx
- [TSX] components\admin\allergies-sensitivity-admin.tsx
- [TSX] components\admin\content-admin.tsx
- [TSX] components\admin\diet-analysis-admin.tsx
- [TSX] components\admin\digestive-health-admin.tsx
- [TSX] components\admin\dynamic-diet-field-admin.tsx
- [TSX] components\admin\dynamic-field-helpers.tsx
- [TSX] components\admin\family-genetic-impact-admin.tsx
- [TSX] components\admin\gene-results-admin.tsx
- [TSX] components\admin\genes-addiction-admin.tsx
- [TSX] components\admin\genetic-parameters-admin.tsx
- [TSX] components\admin\import-export-admin.tsx
- [TSX] components\admin\lifestyle-conditions-admin.tsx
- [TSX] components\admin\metabolic-core-admin.tsx
- [TSX] components\admin\nutrition-admin.tsx
- [TSX] components\admin\patient-info-admin.tsx
- [TSX] components\admin\pdf-generator.tsx
- [TSX] components\admin\preventive-health-admin.tsx
- [TSX] components\admin\report-content-admin.tsx
- [TSX] components\admin\report-settings-admin.tsx
- [TSX] components\admin\report-summaries-admin.tsx
- [TSX] components\admin\settings-admin.tsx
- [TSX] components\admin\sleep-rest-admin.tsx
- [TSX] components\admin\sports-fitness-admin.tsx
- [TSX] components\admin\summaries-admin.tsx
- [TSX] components\comprehensive-report-viewer.tsx
- [TSX] components\report-viewer.tsx
- [TSX] components\theme-provider.tsx
- [TSX] components\ui\accordion.tsx
- [TSX] components\ui>alert-dialog.tsx
- [TSX] components\ui>alert.tsx
- [TSX] components\ui\aspect-ratio.tsx
- [TSX] components\ui\avatar.tsx
- [TSX] components\ui\badge.tsx
- [TSX] components\ui\breadcrumb.tsx
- [TSX] components\ui\button.tsx
- [TSX] components\ui\calendar.tsx
- [TSX] components\ui\card.tsx
- [TSX] components\ui\carousel.tsx
- [TSX] components\ui\chart.tsx
- [TSX] components\ui\checkbox.tsx
- [TSX] components\ui\collapsible.tsx
- [TSX] components\ui\command.tsx
- [TSX] components\ui\context-menu.tsx
- [TSX] components\ui\dialog.tsx
- [TSX] components\ui\drawer.tsx
- [TSX] components\ui\dropdown-menu.tsx
- [TSX] components\ui\form.tsx
- [TSX] components\ui\hover-card.tsx
- [TSX] components\ui\input-otp.tsx
- [TSX] components\ui\input.tsx
- [TSX] components\ui\label.tsx
- [TSX] components\ui\menubar.tsx
- [TSX] components\ui\navigation-menu.tsx
- [TSX] components\ui\pagination.tsx
- [TSX] components\ui\popover.tsx
- [TSX] components\ui\progress.tsx
- [TSX] components\ui\radio-group.tsx
- [TSX] components\ui\resizable.tsx
- [TSX] components\ui\scroll-area.tsx
```

- [TSX] components\ui\select.tsx
- [TSX] components\ui\separator.tsx
- [TSX] components\ui\sheet.tsx
- [TSX] components\ui\sidebar.tsx
- [TSX] components\ui\skeleton.tsx
- [TSX] components\ui\slider.tsx
- [TSX] components\ui\sonner.tsx
- [TSX] components\ui\switch.tsx
- [TSX] components\ui\table.tsx
- [TSX] components\ui\tabs.tsx
- [TSX] components\ui\textarea.tsx
- [TSX] components\ui\toast.tsx
- [TSX] components\ui\toaster.tsx
- [TSX] components\ui\toggle-group.tsx
- [TSX] components\ui\toggle.tsx
- [TSX] components\ui\tooltip.tsx
- [TSX] components\ui\use-mobile.tsx
- [TS] components\ui\use-toast.ts
- [TSX] hooks\use-mobile.tsx
- [TS] hooks\use-toast.ts
- [TS] lib\utils.ts
- [TS] next-env.d.ts
- [PKG] package.json
- [TS] tailwind.config.ts
- [TSC] tsconfig.json
- [TS] types\report-types.ts

■ File: app\admin\comprehensive-admin.tsx

```
=====
1: // "use client"
2:
3: // import { useState, useEffect } from "react"
4: // import { Button } from "@/components/ui/button"
5: // import { Tabs, TabsContent, TabsList, TabsTrigger } from "@/components/ui/tabs"
6: // import { ScrollArea } from "@/components/ui/scroll-area"
7: // import { Save, ArrowLeft } from "lucide-react"
8: // import Link from "next/link"
9:
10: // // Import all admin components
11: // import PatientInfoAdmin from "@/components/admin/patient-info-admin"
12: // import ContentAdmin from "@/components/admin/content-admin"
13: // import SettingsAdmin from "@/components/admin/settings-admin"
14: // import DietAnalysisAdmin from "@/components/admin/diet-analysis-admin"
15: // import GeneResultsAdmin from "@/components/admin/gene-results-admin"
16: // import ImportExportAdmin from "@/components/admin/import-export-admin"
17: // import SummariesAdmin from "@/components/admin/summaries-admin"
18:
19: // import type {
20: //   ComprehensiveReportData,
21: //   PatientInfo,
22: //   ReportContent,
23: //   ReportSettings,
24: //   DietAnalysis,
25: //   MacronutrientData,
26: //   GeneTestResult,
27: //   ReportSummaries,
28: // } from "@/types/report-types"
29:
30: // export default function ComprehensiveAdminPage() {
31: //   const [reportData, setReportData] = useState<ComprehensiveReportData>({
32: //     patientInfo: {
33: //       name: "",
34: //       gender: "",
35: //       birthDate: "",
36: //       sampleCode: "",
37: //       sampleDate: "",
38: //       reportDate: "",
39: //       reportAuth: "",
40: //       genomicAnalytics: "",
41: //       checkedBy: "",
42: //       scientificContent: "",
43: //     },
44: //     content: {
45: //       disclaimer: `The present report tells you about genetic variations/mutations associated with certain
46: //       This report cannot replace visits to a healthcare professional. Your results serve as a reference point,
47: //       Example, pvt , a comprehensive health app that leverages genetic, metabolic, anthropometric, and clinical
48: //       introduction: `Welcome to your personalised nutrigenomics test report. It is our absolute pleasure
49: //       nutrigenomicsExplanation: `We all are aware that DNA is the blueprint of the human body. The external factors
50: //       genesHealthImpact: `The human DNA consists of more than 20000 genes. Every gene has a role to play in
51: //       fundamentalsPRS: `The risk of an individual to suffer from a chronic condition, such as lifestyle diseases,
52: //       utilityDoctors: `Your polygenic risk scores are not something you should be scared of, as you can consult
53: //       microarrayExplanation: `A microarray is a process that involves detecting several (approximately 0.1% of the
54: //       microarrayData: `The microarray data obtained from your DNA is precious and has been archived on a secure
55: //     },
56: //     settings: {
57: //       title: "COMPREHENSIVE GENOMICS REPORT",
58: //       subtitle: "NUTRIGENOMICS TEST REPORT",
59: //       companyName: "Example PVT LTD",
60: //       headerColor: "#1e40af",
61: //       accentColor: "#3b82f6",
62: //       fonts: {
63: //         primary: "Inter, system-ui, sans-serif",
64: //         secondary: "Roboto, system-ui, sans-serif",
65: //         mono: "JetBrains Mono, Consolas, monospace",
66: //       },
67: //     },
68: //     dietAnalysis: {
69: //       macronutrients: {
70: //       },
71: //     },
72: //   })
73: // }
```

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72: //      carbohydrateSensitivity: {
73: //          score: 3,
74: //          level: "HIGH",
75: //          recommendation: "Maintain carb intake <45% For obesity & IR control",
76: //      },
77: //      fatSensitivity: { score: 6, level: "HIGH", recommendation: "Fat intake not to exceed 15% of total",
78: //      proteinRequirement: {
79: //          score: 6,
80: //          level: "HIGH",
81: //          recommendation: "Protein supplements needed along with dietary source",
82: //      },
83: //  },
84: //  mealPattern: {
85: //      mealFrequency: { score: 6, level: "FREQUENT", recommendation: "4-5 small meals suggested in a day",
86: //      mealReplacement: { score: 6, level: "SUITABLE", recommendation: "Meal replacements may help in weight loss",
87: //      weightMaintenance: { score: 6, level: "HIGH", recommendation: "Weight maintenance regime can be helpful",
88: //  },
89: //  foodSensitivities: {
90: //      alcoholSensitivity: {
91: //          score: 4,
92: //          level: "HIGH",
93: //          recommendation:
94: //              "High sensitivity, avoid alcohol if possible, especially the types of beverages that trigger symptoms",
95: //      },
96: //      caffeineSensitivity: {
97: //          score: 6,
98: //          level: "HIGH",
99: //          recommendation: "High sensitivity, do not consume >4 cups/day",
100: //      },
101: //      glutenSensitivity: { score: 3, level: "HIGH", recommendation: "Gluten intake needs to be reduced",
102: //      lactoseSensitivity: { score: 10, level: "HIGH", recommendation: "Milk & milk products need to be avoided",
103: //      saltSensitivity: {
104: //          score: 10,
105: //          level: "HIGH",
106: //          recommendation: "Try to reduce overall salt intake to up to 3-5 gm per day",
107: //      },
108: //  },
109: //  tasteSensitivities: {
110: //      spiceTolerance: { score: 6, level: "NORMAL", recommendation: "Normal sensitivity to taste" },
111: //      sweetTaste: { score: 3, level: "HIGH", recommendation: "High sweet consumption tendency" },
112: //      tasteSensitivity: { score: 6, level: "NORMAL", recommendation: "Normal taste sensitivity" },
113: //  },
114: //  },
115: //  nutritionData: {
116: //      vitamins: {
117: //          vitaminA: { score: 3, healthImpact: "Skin & Vision", intakeLevel: "ENHANCED INTAKE", source: "DIET",
118: //          vitaminB12: {
119: //              score: 6,
120: //              healthImpact: "Nervous System & Bones",
121: //              intakeLevel: "ENHANCED INTAKE (METHYLCOBALAMIN)",
122: //              source: "DIET",
123: //          },
124: //          vitaminB2: { score: 3, healthImpact: "Energy Metabolism", intakeLevel: "ENHANCED INTAKE", source: "DIET",
125: //          vitaminB6: { score: 6, healthImpact: "Tissue growth repair", intakeLevel: "ENHANCED INTAKE", source: "DIET",
126: //          vitaminB9: {
127: //              score: 3,
128: //              healthImpact: "RBC development & Heart health",
129: //              intakeLevel: "ENHANCED INTAKE (L METHYLFOLATE)",
130: //              source: "DIET",
131: //          },
132: //          vitaminC: { score: 3, healthImpact: "Skin & Immunity", intakeLevel: "ENHANCED INTAKE", source: "DIET",
133: //          vitaminD: {
134: //              score: 6,
135: //              healthImpact: "Bones & Diabetes",
136: //              intakeLevel: "ENHANCED INTAKE & SUN EXPOSURE",
137: //              source: "DIET & SUN EXPOSURE",
138: //          },
139: //          vitaminE: { score: 5, healthImpact: "Skin & Immune system", intakeLevel: "ENHANCED INTAKE", source: "DIET",
140: //      },
141: //      fattyAcids: {
142: //          omegaFattyAcids: {
143: //              score: 5,
144: //              healthImpact: "Cardiac health & Triglycerides",

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145: //         intakeLevel: "ENHANCED INTAKE (VEG SOURCES)",
146: //         source: "ENHANCED INTAKE (VEG/FISH OIL) & DIET",
147: //     },
148: // },
149: // elements: {
150: //     calcium: {
151: //         score: 3,
152: //         healthImpact: "Bone health & Nerve function",
153: //         intakeLevel: "ENHANCED INTAKE",
154: //         source: "DIET",
155: //     },
156: //     iodine: {
157: //         score: 3,
158: //         healthImpact: "Detoxification & Thyroid hormones",
159: //         intakeLevel: "ENHANCED INTAKE",
160: //         source: "DIET",
161: //     },
162: //     iron: { score: 3, healthImpact: "Haemoglobin & Energy", intakeLevel: "RESTRICTED INTAKE", source: "DIET",
163: //     magnesium: {
164: //         score: 3,
165: //         healthImpact: "Heart health & Immunity",
166: //         intakeLevel: "ENHANCED INTAKE",
167: //         source: "DIET",
168: //     },
169: //     phosphorus: {
170: //         score: 3,
171: //         healthImpact: "Bone health & Kidney function",
172: //         intakeLevel: "ENHANCED INTAKE",
173: //         source: "DIET",
174: //     },
175: //     selenium: {
176: //         score: 3,
177: //         healthImpact: "Cognitive & Muscle function",
178: //         intakeLevel: "ENHANCED INTAKE",
179: //         source: "DIET",
180: //     },
181: //     zinc: { score: 3, healthImpact: "Fertility & Skin", intakeLevel: "ENHANCED INTAKE", source: "DIET",
182: // },
183: // complexNutrients: {
184: //     antiInflammatory: {
185: //         score: 5,
186: //         healthImpact: "Pain control & Organ health",
187: //         intakeLevel: "ENHANCED INTAKE",
188: //         source: "DIET",
189: //     },
190: //     antioxidants: {
191: //         score: 6,
192: //         healthImpact: "Skin & Immune system",
193: //         intakeLevel: "ENHANCED INTAKE",
194: //         source: "DIET",
195: //     },
196: // },
197: // },
198: // sportsAndFitness: {
199: //     exerciseType: {
200: //         endurancePotential: {
201: //             level: "High Endurance Potential",
202: //             description: "Excellent genetic predisposition for endurance activities",
203: //         },
204: //         powerPotential: { level: "Average Power Potential", description: "Moderate power output capacity",
205: //         strengthProfile: { level: "High Strength Profile", description: "Good potential for strength training",
206: //         exerciseTime: { level: "Evening time is more beneficial than morning", description: "MORNING Vs. EVENING",
207: //     },
208: //     performance: {
209: //         enduranceCapacity: { level: "High Endurance Potential", description: "Superior aerobic capacity",
210: //         fatigueResistance: {
211: //             level: "Normal fatigue resistance. Average endurance capacity",
212: //             description: "Average endurance capacity",
213: //         },
214: //         bloodFlow: {
215: //             level: "Reduced vascular efficiency, affects endurance sports.",
216: //             description: "Affects endurance sports",
217: //         },

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218: //      oxygenEfficiency: {
219: //          level: "Normal VO2 Max. Need practice to excel in endurance sports",
220: //          description: "Need practice to excel",
221: //      },
222: //      waterLoss: {
223: //          level:
224: //              "Increased water and electrolyte loss tendency. Focus on Hydration and electrolyte management",
225: //          description: "Focus on hydration",
226: //      },
227: //      lactateClearing: {
228: //          level: "High lactate clearance. Beneficial for Endurance sports.",
229: //          description: "Beneficial for endurance",
230: //      },
231: //      recoveryEfficiency: {
232: //          level: "High recovery efficiency. Enhanced sports potential & reduced injury risk",
233: //          description: "Enhanced sports potential",
234: //      },
235: //      bodyComposition: {
236: //          level: "Low fat accumulation. Increased muscle tendency.",
237: //          description: "Increased muscle tendency",
238: //      },
239: //      injuryRisk: {
240: //          level: "High injury tendency. Thorough injury management steps to be taken.",
241: //          description: "Thorough injury management needed",
242: //      },
243: //      achillesTendonInjury: {
244: //          level: "Low injury tendency. Ensure adequate warmup before exercises",
245: //          description: "Ensure adequate warmup",
246: //      },
247: //      ligamentInjury: {
248: //          level: "Low ACL injury tendency. Ensure adequate warmup before exercises",
249: //          description: "Ensure adequate warmup",
250: //      },
251: //      rupture: {
252: //          level: "Low rupture tendency. Ensure adequate warmup before exercises",
253: //          description: "Ensure adequate warmup",
254: //      },
255: //      muscleCramps: {
256: //          level: "Low risk of muscle cramps. Ensure adequate warmup before exercises",
257: //          description: "Ensure adequate warmup",
258: //      },
259: //  },
260: //  },
261: //  lifestyleConditions: {
262: //      heartVascularHealth: {
263: //          hypertension: { status: "strength" },
264: //          leftVentricularHypertrophy: { status: "strength" },
265: //          atherosclerosis: { status: "improvement" },
266: //          familialHypercholesterolemia: { status: "strength" },
267: //          cardiomyopathy: { status: "strength" },
268: //          cholesterolImbalance: { status: "improvement" },
269: //          stroke: { status: "improvement" },
270: //      },
271: //      diabetesity: {
272: //          obesity: { status: "improvement" },
273: //          diabetesType2: { status: "improvement" },
274: //      },
275: //      liverHealth: {
276: //          nafld: { status: "improvement" },
277: //          liverCirrhosis: { status: "strength" },
278: //      },
279: //      boneHealth: {
280: //          osteoporosis: { status: "improvement" },
281: //          osteoarthritis: { status: "improvement" },
282: //      },
283: //      gutHealth: {
284: //          irritableBowelSyndrome: { status: "improvement" },
285: //          celiacDisease: { status: "strength" },
286: //      },
287: //      hormoneSystem: {
288: //          hypothyroidism: { status: "improvement" },
289: //      },
290: //  },

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291: //      metabolicCore: {
292: //          methylation: {
293: //              genes: ["MTHFR (A>C)", "MTHFR (C>T)", "MTR", "MTRR", "CBS"],
294: //              genotype: "TT, GG, GG, GG, CC",
295: //              impact: "NORMAL METHYLATION",
296: //              advice: "FOLIC ACID & METHYL COBALAMINE NEEDED TO MAINTAIN HOMOCYSTEINE",
297: //          },
298: //          inflammation: {
299: //              genes: ["TNF-A", "IL6", "CRP"],
300: //              genotype: "GG, GG, TC",
301: //              impact: "HIGH INFLAMMATION",
302: //              advice: "ANTI-INFLAMMATORY SUPPLEMENT INTAKE SUGGESTED",
303: //          },
304: //          oxidativeStress: {
305: //              genes: ["MnSOD", "SOD2"],
306: //              genotype: "AG, AG",
307: //              impact: "HIGH OXIDATIVE STRESS",
308: //              advice: "ANTIOXIDANT SUPPLEMENTS REQUIRED TO MANAGE OXIDATIVE STRESS",
309: //          },
310: //          detoxification: {
311: //              genes: ["GSTP1", "CYP1A2"],
312: //              genotype: "AA, AC",
313: //              impact: "AFFECTED DETOXIFICATION ABILITY",
314: //              advice: "SUPPORT LIVER DETOXIFICATION WITH CRUCIFEROUS VEGETABLES",
315: //          },
316: //          vitaminDMetabolism: {
317: //              genes: ["VDR-3 (Taq)", "VDR-2 (Bsm)"],
318: //              genotype: "AG, TC",
319: //              impact: "LOW VIT D. METABOLISM",
320: //              advice: "HIGHER VITAMIN D SUPPLEMENTATION NEEDED",
321: //          },
322: //          lipidMetabolism: {
323: //              genes: ["CETP", "APOE", "LPL", "APOC3"],
324: //              genotype: "AA, TC, CC, GG",
325: //              impact: "HIGH TENDENCY OF DYSLIPIDEMIA",
326: //              advice: "PCF RATIO 30:55:15% LPL= LDL, CETP= HDL, APOC3=TRIGLYCERIDES",
327: //          },
328: //          insulinResistance: {
329: //              genes: ["TCF7l2", "PPARG", "FTO"],
330: //              genotype: "TT, CC, AT",
331: //              impact: "HIGH INSULIN RESISTANCE (IR)",
332: //              advice: "FTO = IR TENDENCY TCF7L2 = OBESITY TRIGGERED IR PPARG= CENTRAL OBESITY",
333: //          },
334: //          circadianRhythm: {
335: //              genes: ["CLOCK"],
336: //              genotype: "AG",
337: //              impact: "EVENING EXERCISE TO BE PREFERRED",
338: //              advice: "EVENING EXERCISE TO BE PREFERRED",
339: //          },
340: //          exerciseResponsiveness: {
341: //              genes: ["ADRB2-2", "ADRB2-1", "ADRB3"],
342: //              genotype: "CC, GG, AG",
343: //              impact: "SLOW RESPONSE TO WORKOUT",
344: //              advice: "HIGH INTENSITY WORKOUT ADRB2-2 = CARBS SENSITIVITY",
345: //          },
346: //          snackingTendency: {
347: //              genes: ["MC4R"],
348: //              genotype: "TC",
349: //              impact: "SNACKING TENDENCY PRESENT",
350: //              advice: "CONTROL SNACKING HABITS WITH STRUCTURED MEAL TIMING",
351: //          },
352: //          oestrogenElimination: {
353: //              genes: ["COMT", "CYP1A1"],
354: //              genotype: "GG, CG",
355: //              impact: "AFFECTED OESTROGEN ELIMINATION",
356: //              advice: "SUPPORT ESTROGEN DETOX WITH CRUCIFEROUS VEGETABLES",
357: //          },
358: //          powerVsEndurance: {
359: //              genes: ["ACE", "AGT", "ACTN3"],
360: //              genotype: "AA, GG, TT",
361: //              impact: "HIGH POWER POTENTIAL",
362: //              advice: "ACE (WHITE) = ENDURANCE AGT (RED) = LVH/HT",
363: //          },

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364: //      injuryRecovery: {
365: //          genes: ["COL1A1", "GDF5"],
366: //          genotype: "CC, AG",
367: //          impact: "INCREASED RISK OF INJURY",
368: //          advice: "FOCUS ON INJURY PREVENTION AND PROPER WARM-UP",
369: //      },
370: //      fluidLossTendency: {
371: //          genes: ["BDKRB2"],
372: //          genotype: "TC",
373: //          impact: "HIGH FLUID LOSS TENDENCY",
374: //          advice: "MAINTAIN PROPER HYDRATION DURING EXERCISE",
375: //      },
376: //      vo2Max: {
377: //          genes: ["VEGF"],
378: //          genotype: "GG",
379: //          impact: "AVERAGE VO2 MAX",
380: //          advice: "FOCUS ON AEROBIC TRAINING TO IMPROVE VO2 MAX",
381: //      },
382: //  },
383: //  digestiveHealth: {
384: //      gutHealth: { level: "NORMAL GUT HEALTH", description: "Good overall digestive function" },
385: //      glutenIntolerance: { level: "LOW INTOLERANCE", description: "CONDITIONAL GLUTEN ELIMINATION NEEDED" },
386: //      celiacDiseaseTendency: { level: "LOW TENDENCY", description: "Low genetic risk for celiac disease" },
387: //      impactOnBonesJoints: {
388: //          level: "NO IMPACT ON BONE HEALTH",
389: //          description: "Digestive health does not affect bone health",
390: //      },
391: //      lactoseIntolerance: { level: "HIGH INTOLERANCE", description: "LACTOSE ELIMINATION NEEDED" },
392: //      probioticsRequirement: { level: "PROBIOTICS NEEDED", description: "FOOD & SUPPLEMENTS" },
393: //  },
394: //  genesAndAddiction: {
395: //      alcoholAddiction: { tendency: "LOW", description: "Low genetic predisposition to alcohol dependence" },
396: //      smokingAddiction: { tendency: "NORMAL", description: "Average nicotine addiction susceptibility" },
397: //      snackingHabits: { tendency: "HIGH", description: "Genetic tendency toward frequent snacking" },
398: //      altruism: { tendency: "HIGH", description: "Strong genetic predisposition toward helping others" },
399: //  },
400: //  sleepAndRest: {
401: //      sleepCycle: {
402: //          impact: "DELAYED SLEEP CYCLE",
403: //          intervention: "EXERCISE IN THE EVENING AVOID CARBS DURING BREAKFAST",
404: //      },
405: //      sleepApnea: {
406: //          impact: "INCREASED CHANCES OF SLEEP APNEA",
407: //          intervention: "EXERCISE REGULARLY SEEK MEDICAL ADVICE IF ISSUE PERSISTS",
408: //      },
409: //      sleepDepth: { impact: "LOW SLEEP DEPTH", intervention: "CONSUME CURD RICE IN DINNER FOR BETTER SLEEP" },
410: //      stressSensitivity: {
411: //          impact: "LOW STRESS SENSITIVITY",
412: //          intervention: "EXERCISE REGULARLY FOR A BETTER SLEEP CYCLE",
413: //      },
414: //  },
415: //  allergiesAndSensitivity: {
416: //      dustAllergy: { tendency: "NORMAL" },
417: //      pesticideSensitivity: { tendency: "HIGH" },
418: //      smokeSensitivity: { tendency: "HIGH" },
419: //      automobileSmokeSensitivity: { tendency: "HIGH" },
420: //      generalAdvice:
421: //          "THE BEST WAY TO REDUCE ALLERGIES IS TO STAY AWAY FROM THE SOURCE, NO ROCKET SCIENCE HOWEVER THE",
422: //  },
423: //  geneTestResults: [
424: //      { geneName: "ALDH2 Aldehyde dehydrogenase 2", variation: "G>A", result: "GG" },
425: //      { geneName: "ACTN3 Alpha-actinin-3 protein", variation: "C>T", result: "TT" },
426: //      { geneName: "ACE Angiotensin I-Converting Enzyme", variation: "G>A", result: "AA" },
427: //      { geneName: "AGT Angiotensinogen", variation: "G>A", result: "GG" },
428: //      { geneName: "ApoA5 Apolipoprotein A5", variation: "G>A", result: "GG" },
429: //      { geneName: "APOC3 Apolipoprotein C 3", variation: "C>G", result: "GG" },
430: //      { geneName: "APOE Apolipoprotein E", variation: "C>T", result: "TC" },
431: //      { geneName: "APOE4 Apolipoprotein E (TOMM40)", variation: "A>G", result: "AA" },
432: //      { geneName: "ADRB2-1 BETA-2-ADRENERGIC RECEPTOR (1)", variation: "A>G", result: "GG" },
433: //      { geneName: "ADRB2-2 BETA-2-ADRENERGIC RECEPTOR (2)", variation: "C>G", result: "CC" },
434: //  ],
435: //  metabolicSummary: {
436: //      strengths: [

```



```

437: //      "NORMAL METHYLATION",
438: //      "HIGH POWER POTENTIAL",
439: //      "NORMAL GUT HEALTH",
440: //      "LOW STRESS SENSITIVITY",
441: //      "HIGH RECOVERY EFFICIENCY",
442: //  ],
443: //  weaknesses: [
444: //      "HIGH INFLAMMATION",
445: //      "HIGH OXIDATIVE STRESS",
446: //      "AFFECTED DETOXIFICATION ABILITY",
447: //      "LOW VIT D. METABOLISM",
448: //      "HIGH INSULIN RESISTANCE",
449: //      "AFFECTED OESTROGEN ELIMINATION",
450: //      "INCREASED RISK OF INJURY",
451: //      "HIGH FLUID LOSS TENDENCY",
452: //  ],
453: //  },
454: //  preventiveHealth: {
455: //      diagnosticTests: {
456: //          halfYearly: ["PLASMA SUGAR (FASTING & PP)", "VITAMIN D"],
457: //          yearly: ["HbA1c", "LIPID PROFILE", "SERUM HOMOCYSTEINE", "VITAMIN B12", "LIVER PROFILE"],
458: //      },
459: //      nutritionalSupplements: [
460: //          { supplement: "VITAMIN D", needed: true },
461: //          { supplement: "METHYL FOLATE + METHYL COBALAMINE + B6", needed: true },
462: //          { supplement: "OMEGA FATTY ACIDS (FISH OIL)", needed: true },
463: //          { supplement: "FOLIC ACID + COBALAMINE + B6", needed: true },
464: //          { supplement: "OMEGA FATTY ACIDS (VEG)", needed: true },
465: //          { supplement: "VITAMIN E", needed: true },
466: //          { supplement: "PROBIOTICS", needed: true },
467: //      ],
468: //  },
469: //  familyGeneticImpact: [
470: //      {
471: //          gene: "MnSOD",
472: //          normalAlleles: "AA",
473: //          yourResult: "AG",
474: //          healthImpact: "INCREASED TENDENCY OF OXIDATIVE STRESS NEED OF ANTI-OXIDANT SUPPLEMENTS",
475: //      },
476: //      {
477: //          gene: "FTO",
478: //          normalAlleles: "TT",
479: //          yourResult: "AT",
480: //          healthImpact:
481: //              "INCREASED TENDENCY OF INSULIN RESISTANCE WEIGHT AND CALORIE MANAGEMENT IMPORTANT TO MANAGE AND",
482: //      },
483: //  ],
484: //  summaries: {
485: //      nutrigenomicsSummary:
486: //          "Based on your genetic analysis, you have specific nutritional needs including enhanced vitamin B12 and omega-3 fatty acids.",
487: //      exerciseGenomicsSummary:
488: //          "Your genetic profile indicates high endurance potential with good recovery capacity. Focus on aerobic and strength training.",
489: //  },
490: //  })
491:
492: //  const [isSaving, setIsSaving] = useState(false)
493: //  const [loading, setLoading] = useState(true)
494:
495: //  useEffect(() => {
496: //      loadReportData()
497: //  }, [])
498:
499: //  const loadReportData = async () => {
500: //      try {
501: //          const response = await fetch("/api/comprehensive-report-data")
502: //          if (response.ok && response.headers.get("content-type")?.includes("application/json")) {
503: //              const data = await response.json()
504: //              setReportData(data)
505: //          }
506: //      } catch (error) {
507: //          console.error("Error loading report data:", error)
508: //      } finally {
509: //          setLoading(false)

```

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510: //     }
511: //   }
512:
513: //   const saveReportData = async () => {
514: //     setIsSaving(true)
515: //     try {
516: //       const response = await fetch("/api/comprehensive-report-data", {
517: //         method: "POST",
518: //         headers: {
519: //           "Content-Type": "application/json",
520: //         },
521: //         body: JSON.stringify(reportData),
522: //       })
523:
524: //       if (response.ok) {
525: //         alert("Report data saved successfully!")
526: //       }
527: //     } catch (error) {
528: //       console.error("Error saving report data:", error)
529: //       alert("Error saving report data")
530: //     } finally {
531: //       setIsSaving(false)
532: //     }
533: //   }
534:
535: //   // Helper functions for updating nested data
536: //   const updatePatientInfo = (field: keyof PatientInfo, value: string) => {
537: //     setReportData((prev) => ({
538: //       ...prev,
539: //       patientInfo: { ...prev.patientInfo, [field]: value },
540: //     }))
541: //   }
542:
543: //   const updateContent = (field: keyof ReportContent, value: string) => {
544: //     setReportData((prev) => ({
545: //       ...prev,
546: //       content: { ...prev.content, [field]: value },
547: //     }))
548: //   }
549:
550: //   const updateSettings = (field: keyof ReportSettings, value: string) => {
551: //     setReportData((prev) => ({
552: //       ...prev,
553: //       settings: { ...prev.settings, [field]: value },
554: //     }))
555: //   }
556:
557: //   const updateDietAnalysis = (section: keyof DietAnalysis, field: string, data: Partial<MacronutrientData>) => {
558: //     setReportData((prev) => ({
559: //       ...prev,
560: //       dietAnalysis: {
561: //         ...prev.dietAnalysis,
562: //         [section]: {
563: //           ...prev.dietAnalysis[section],
564: //           [field]: {
565: //             ...prev.dietAnalysis[section][field as keyof (typeof prev.dietAnalysis)[typeof section]],
566: //             ...data,
567: //           },
568: //         },
569: //       },
570: //     }))
571: //   }
572:
573: //   const updateSummaries = (field: keyof ReportSummaries, value: string) => {
574: //     setReportData((prev) => ({
575: //       ...prev,
576: //       summaries: { ...prev.summaries, [field]: value },
577: //     }))
578: //   }
579:
580: //   // Gene test results management
581: //   const addGeneTestResult = () => {
582: //     setReportData((prev) => ({

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583: //      ...prev,
584: //      geneTestResults: [...prev.geneTestResults, { geneName: "", variation: "", result: "" }],
585: //    )))
586: //  }
587:
588: //  const updateGeneTestResult = (index: number, field: keyof GeneTestResult, value: string) => {
589: //    setReportData((prev) => {
590: //      const newResults = [...prev.geneTestResults]
591: //      newResults[index] = { ...newResults[index], [field]: value }
592: //      return { ...prev, geneTestResults: newResults }
593: //    })
594: //  }
595:
596: //  const removeGeneTestResult = (index: number) => {
597: //    setReportData((prev) => ({
598: //      ...prev,
599: //      geneTestResults: prev.geneTestResults.filter((_, i) => i !== index),
600: //    })))
601: //  }
602:
603: //  if (loading) {
604: //    return (
605: //      <div className="min-h-screen flex items-center justify-center bg-gradient-to-br from-blue-50 to-in
606: //      <div className="text-center">
607: //        <div className="animate-spin rounded-full h-16 w-16 border-b-4 border-blue-600 mx-auto mb-6"><
608: //        <p className="text-gray-600 text-lg">Loading comprehensive admin panel...</p>
609: //      </div>
610: //    </div>
611: //  )
612: //  }
613:
614: //  return (
615: //    <div className="min-h-screen bg-gradient-to-br from-gray-50 to-blue-50">
616: //      <div className="container mx-auto px-4 py-8">
617: //        <div className="flex items-center justify-between mb-8">
618: //          <div className="flex items-center gap-4">
619: //            <Link href="/">
620: //              <Button variant="outline" size="sm" className="shadow-sm bg-transparent">
621: //                <ArrowLeft className="h-4 w-4 mr-2" />
622: //                Back to Home
623: //              </Button>
624: //            </Link>
625: //            <h1 className="text-4xl font-bold text-gray-900">? Comprehensive Genomics Admin</h1>
626: //          </div>
627: //          <div className="flex gap-2">
628: //            <Link href="/report/preview">
629: //              <Button variant="outline" className="shadow-sm bg-transparent">
630: //                ?? Preview Report
631: //              </Button>
632: //            </Link>
633: //            <Button onClick={saveReportData} disabled={isSaving} className="shadow-sm">
634: //              <Save className="h-4 w-4 mr-2" />
635: //              {isSaving ? "Saving..." : "Save All Changes"}
636: //            </Button>
637: //          </div>
638: //        </div>
639:
640: //        <Tabs defaultValue="patient-info" className="space-y-6">
641: //          <ScrollArea className="w-full whitespace-nowrap">
642: //            <TabsList className="grid w-full grid-cols-8 gap-1 bg-white shadow-sm">
643: //              <TabsTrigger value="patient-info">Patient Info</TabsTrigger>
644: //              <TabsTrigger value="content">Content</TabsTrigger>
645: //              <TabsTrigger value="settings">Settings</TabsTrigger>
646: //              <TabsTrigger value="diet">Diet Analysis</TabsTrigger>
647: //              <TabsTrigger value="genes">Gene Results</TabsTrigger>
648: //              <TabsTrigger value="summaries">Summaries</TabsTrigger>
649: //              <TabsTrigger value="import-export">Import/Export</TabsTrigger>
650: //              <TabsTrigger value="more">More Sections</TabsTrigger>
651: //            </TabsList>
652: //          </ScrollArea>
653:
654: //          {/* Patient Info Tab */}
655: //          <TabsContent value="patient-info">

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656: //      <PatientInfoAdmin patientInfo={reportData.patientInfo} updatePatientInfo={updatePatientInfo}
657: //    </TabsContent>
658:
659: //    { /* Content Tab */ }
660: //    <TabsContent value="content">
661: //      <ContentAdmin content={reportData.content} updateContent={updateContent} />
662: //    </TabsContent>
663:
664: //    { /* Settings Tab */ }
665: //    <TabsContent value="settings">
666: //      <SettingsAdmin settings={reportData.settings} updateSettings={updateSettings} />
667: //    </TabsContent>
668:
669: //    { /* Diet Analysis Tab */ }
670: //    <TabsContent value="diet">
671: //      <DietAnalysisAdmin dietAnalysis={reportData.dietAnalysis} updateDietAnalysis={updateDietAnal}
672: //    </TabsContent>
673:
674: //    { /* Gene Results Tab */ }
675: //    <TabsContent value="genes">
676: //      <GeneResultsAdmin
677: //        geneTestResults={reportData.geneTestResults}
678: //        addGeneTestResult={addGeneTestResult}
679: //        updateGeneTestResult={updateGeneTestResult}
680: //        removeGeneTestResult={removeGeneTestResult}
681: //      />
682: //    </TabsContent>
683:
684: //    { /* Summaries Tab */ }
685: //    <TabsContent value="summaries">
686: //      <SummariesAdmin summaries={reportData.summaries} updateSummaries={updateSummaries} />
687: //    </TabsContent>
688:
689: //    { /* Import/Export Tab */ }
690: //    <TabsContent value="import-export">
691: //      <ImportExportAdmin reportData={reportData} setReportData={setReportData} />
692: //    </TabsContent>
693:
694: //    { /* More Sections Tab */ }
695: //    <TabsContent value="more">
696: //      <div className="bg-white rounded-lg shadow-lg p-8 text-center">
697: //        <div className="text-6xl mb-4">?</div>
698: //        <h2 className="text-2xl font-bold text-gray-800 mb-4">Additional Sections Coming Soon</h2>
699: //        <p className="text-gray-600 mb-6">
700: //          More admin panels for Nutrition, Sports & Fitness, Lifestyle Conditions, Metabolic Core,
701: //          sections will be added here.
702: //        </p>
703: //        <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-4 text-sm">
704: //          <div className="bg-blue-50 p-4 rounded-lg">
705: //            <h4 className="font-semibold text-blue-800">Nutrition Admin</h4>
706: //            <p className="text-blue-600">Vitamins, elements, supplements</p>
707: //          </div>
708: //          <div className="bg-green-50 p-4 rounded-lg">
709: //            <h4 className="font-semibold text-green-800">Sports & Fitness Admin</h4>
710: //            <p className="text-green-600">Exercise types, performance</p>
711: //          </div>
712: //          <div className="bg-purple-50 p-4 rounded-lg">
713: //            <h4 className="font-semibold text-purple-800">Metabolic Core Admin</h4>
714: //            <p className="text-purple-600">Gene analysis, impacts</p>
715: //          </div>
716: //          <div className="bg-orange-50 p-4 rounded-lg">
717: //            <h4 className="font-semibold text-orange-800">Lifestyle Conditions</h4>
718: //            <p className="text-orange-600">Health conditions, risks</p>
719: //          </div>
720: //          <div className="bg-pink-50 p-4 rounded-lg">
721: //            <h4 className="font-semibold text-pink-800">Sleep & Allergies</h4>
722: //            <p className="text-pink-600">Sleep patterns, sensitivities</p>
723: //          </div>
724: //          <div className="bg-indigo-50 p-4 rounded-lg">
725: //            <h4 className="font-semibold text-indigo-800">Preventive Health</h4>
726: //            <p className="text-indigo-600">Tests, supplements</p>
727: //          </div>
728: //        </div>

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729: //          </div>
730: //          </TabsContent>
731: //          </Tabs>
732: //        </div>
733: //      </div>
734: //    )
735: // }

```

File: app\admin\page.tsx

```

=====
1: "use client";
2:
3: import { Tabs, TabsContent, TabsList, TabsTrigger } from "@components/ui/tabs";
4: import { Button } from "@components/ui/button";
5: import { useState, useEffect } from "react";
6: import { useToast } from "@components/ui/use-toast";
7: import { v4 as uuidv4 } from "uuid"; // Import uuid for default data generation
8: import type {
9:   ComprehensiveReportData,
10:   PatientInfo,
11:   ReportContent,
12:   ReportSettings,
13:   // Removed DietAnalysis
14:   NutritionData,
15:   NutrientData,
16:   GeneTestResult,
17:   ReportSummaries,
18:   SportsAndFitness,
19:   ExerciseData,
20:   LifestyleConditions,
21:   HealthConditionStatus,
22:   MetabolicCore,
23:   MetabolicGeneData,
24:   DigestiveHealth,
25:   DigestiveHealthData,
26:   GenesAndAddiction,
27:   AddictionData,
28:   SleepAndRest,
29:   SleepData,
30:   AllergiesAndSensitivity,
31:   AllergyData,
32:   PreventiveHealth,
33:   FamilyGeneticImpact,
34:   DynamicDietFieldDefinition, // NEW
35:   PatientDietAnalysisResult, // NEW
36: } from "@types/report-types";
37:
38: // Corrected imports for admin components
39: import PatientInfoAdmin from "@components/admin/patient-info-admin";
40: import ContentAdmin from "@components/admin/content-admin";
41: import SettingsAdmin from "@components/admin/settings-admin";
42: import DynamicDietFieldAdmin from "@components/admin/dynamic-diet-field-admin";
43: import GeneResultsAdmin from "@components/admin/gene-results-admin";
44: import SummariesAdmin from "@components/admin/summaries-admin";
45: import ImportExportAdmin from "@components/admin/import-export-admin";
46: import NutritionAdmin from "@components/admin/nutrition-admin";
47: import SportsFitnessAdmin from "@components/admin/sports-fitness-admin";
48: import LifestyleConditionsAdmin from "@components/admin/lifestyle-conditions-admin";
49: import DigestiveHealthAdmin from "@components/admin/digestive-health-admin";
50: import GenesAddictionAdmin from "@components/admin/genes-addiction-admin";
51: import SleepRestAdmin from "@components/admin/sleep-rest-admin";
52: import AllergiesSensitivityAdmin from "@components/admin/allergies-sensitivity-admin";
53: import PreventiveHealthAdmin from "@components/admin/preventive-health-admin";
54: import FamilyGeneticImpactAdmin from "@components/admin/family-genetic-impact-admin";
55: import PDFGenerator from "@components/admin/pdf-generator";
56: import MetabolicCoreAdmin from "@components/admin/metabolic-core-admin";
57: import GeneticParametersAdmin from "@components/admin/genetic-parameters-admin";
58:
59: const getDefaultReportData = (): ComprehensiveReportData => ({
60:   patientInfo: {
61:     name: "John Doe",

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62:     gender: "MALE",
63:     birthDate: "1990-01-01",
64:     sampleCode: "DNL1000000110",
65:     sampleDate: "2023-01-15",
66:     reportDate: "2023-02-01",
67:     reportAuth: "Dr. Jane Smith, PhD",
68:     genomicAnalytics: "Genomics Lab Inc.",
69:     checkedBy: "Dr. Alice Brown",
70:     scientificContent: "Dr. Robert White",
71:     disclaimer:
72:       "This for informational purposes only and should not be used as a substitute for professional medical advice.",
73:   },
74:   content: {
75:     introduction:
76:       "Welcome to your personalized nutrigenomics report. This document provides insights into how your genes influence your health.",
77:     genomicsExplanation:
78:       "Genomics is the study of an organism's complete set of DNA, including all of its genes. It helps us understand how our genes affect our health and how we can optimize our diet and lifestyle based on our genetic makeup.",
79:     genesHealthImpact:
80:       "Your genes play a significant role in determining your health predispositions. This report highlights key genetic factors that may influence your risk of certain health conditions and provides personalized recommendations to help you manage these risks.",
81:     fundamentalsPRS:
82:       "Polygenic Risk Scores (PRS) combine the effects of many genetic variants to estimate an individual's overall genetic risk for certain diseases. This score is used to provide a more comprehensive view of your genetic health.",
83:     utilityDoctors:
84:       "This report is designed to be a valuable tool for doctors and dietitians, providing actionable genetic insights that can inform their clinical decisions and personalized recommendations for their patients.",
85:     microarrayExplanation:
86:       "Microarray technology allows for the simultaneous measurement of the expression levels of thousands of genes. This data is used to identify patterns of gene expression that may be associated with certain health conditions.",
87:     microarrayData:
88:       "Your microarray data has been analyzed to identify specific genetic variations relevant to your health. These variations are used to generate the personalized recommendations found in this report.",
89:   },
90:   settings: {
91:     title: "Comprehensive Health Report",
92:     subtitle: "A Detailed Analysis of Your Genetics",
93:     companyName: "Health Solutions Inc.",
94:     headerColor: "#2C3E50",
95:     accentColor: "#E74C3C",
96:     fonts: {
97:       primary: "Helvetica, Arial, sans-serif",
98:       secondary: "Georgia, serif",
99:       mono: "Courier New, monospace",
100:     },
101:   },
102:   // NEW: Default dynamic diet field definitions
103:   dynamicDietFieldDefinitions: [
104:     {
105:       _uuid: uuidv4(),
106:       id: "carbohydrate_sensitivity",
107:       label: "Carbohydrate Sensitivity",
108:       category: "Macronutrients",
109:       min: 1,
110:       max: 10,
111:       highRecommendation: "Reduce carbohydrate intake, focus on complex carbs.",
112:       normalRecommendation: "Maintain balanced carbohydrate intake.",
113:       lowRecommendation: "Ensure adequate carbohydrate intake.",
114:     },
115:     {
116:       _uuid: uuidv4(),
117:       id: "fat_sensitivity",
118:       label: "Fat Sensitivity",
119:       category: "Macronutrients",
120:       min: 1,
121:       max: 10,
122:       highRecommendation:
123:         "Reduce saturated and trans fats; focus on healthy fats.",
124:       normalRecommendation: "Maintain balanced fat intake.",
125:       lowRecommendation: "Ensure adequate healthy fat intake.",
126:     },
127:     {
128:       _uuid: uuidv4(),
129:       id: "protein_requirement",
130:       label: "Protein Requirement",
131:       category: "Macronutrients",
132:       min: 1,
133:       max: 10,
134:       highRecommendation: "Increased protein intake recommended.",

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135:     normalRecommendation: "Ensure adequate protein intake.",
136:     lowRecommendation:
137:         "Consider increasing protein intake for muscle maintenance.",
138: },
139: {
140:     _uuid: uuidv4(),
141:     id: "meal_frequency",
142:     label: "Meal Frequency",
143:     category: "Meal Pattern",
144:     min: 1,
145:     max: 10,
146:     highRecommendation: "Consider smaller, more frequent meals.",
147:     normalRecommendation: "Maintain regular meal frequency.",
148:     lowRecommendation: "Consider fewer, larger meals.",
149: },
150: {
151:     _uuid: uuidv4(),
152:     id: "alcohol_sensitivity",
153:     label: "Alcohol Sensitivity",
154:     category: "Food Sensitivities",
155:     min: 1,
156:     max: 10,
157:     highRecommendation:
158:         "Limit alcohol consumption due to genetic sensitivity.",
159:     normalRecommendation: "Moderate alcohol intake is fine.",
160:     lowRecommendation: "Normal alcohol metabolism.",
161: },
162: {
163:     _uuid: uuidv4(),
164:     id: "caffeine_sensitivity",
165:     label: "Caffeine Sensitivity",
166:     category: "Food Sensitivities",
167:     min: 1,
168:     max: 10,
169:     highRecommendation: "Limit caffeine intake due to slow metabolism.",
170:     normalRecommendation:
171:         "Normal caffeine metabolism; moderate intake is fine.",
172:     lowRecommendation:
173:         "Fast caffeine metabolism; higher intake may be tolerated.",
174: },
175: ],
176: // NEW: Default patient-specific results for dynamic diet fields
177: patientDietAnalysisResults: [
178:     {
179:         fieldId: "carbohydrate_sensitivity",
180:         score: 5,
181:         level: "NORMAL",
182:         recommendation: "Maintain balanced carbohydrate intake.",
183:     },
184:     {
185:         fieldId: "fat_sensitivity",
186:         score: 7,
187:         level: "HIGH",
188:         recommendation: "Reduce saturated and trans fats; focus on healthy fats.",
189:     },
190:     {
191:         fieldId: "protein_requirement",
192:         score: 3,
193:         level: "LOW",
194:         recommendation: "Ensure adequate protein intake for muscle maintenance.",
195:     },
196:     {
197:         fieldId: "meal_frequency",
198:         score: 6,
199:         level: "FREQUENT",
200:         recommendation: "Consider smaller, more frequent meals.",
201:     },
202:     {
203:         fieldId: "alcohol_sensitivity",
204:         score: 9,
205:         level: "HIGH",
206:         recommendation: "Limit alcohol consumption due to genetic sensitivity.",
207:     },

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208:     {
209:         fieldId: "caffeine_sensitivity",
210:         score: 2,
211:         level: "LOW",
212:         recommendation: "Normal caffeine metabolism; moderate intake is fine.",
213:     },
214: ],
215: nutritionData: {
216:     vitamins: {
217:         vitaminA: {
218:             score: 3,
219:             healthImpact: "Skin & Vision",
220:             intakeLevel: "ENHANCED INTAKE",
221:             source: "DIET",
222:         },
223:         vitaminB12: {
224:             score: 6,
225:             healthImpact: "Nervous System & Bones",
226:             intakeLevel: "ENHANCED INTAKE (METHYLCOBALAMIN)",
227:             source: "DIET",
228:         },
229:         vitaminB2: {
230:             score: 3,
231:             healthImpact: "Energy Metabolism",
232:             intakeLevel: "ENHANCED INTAKE",
233:             source: "DIET",
234:         },
235:         vitaminB6: {
236:             score: 6,
237:             healthImpact: "Tissue growth repair",
238:             intakeLevel: "ENHANCED INTAKE",
239:             source: "DIET",
240:         },
241:         vitaminB9: {
242:             score: 3,
243:             healthImpact: "RBC development & Heart health",
244:             intakeLevel: "ENHANCED INTAKE (L METHYLFOLATE)",
245:             source: "DIET",
246:         },
247:         vitaminC: {
248:             score: 3,
249:             healthImpact: "Skin & Immunity",
250:             intakeLevel: "ENHANCED INTAKE",
251:             source: "DIET",
252:         },
253:         vitaminD: {
254:             score: 6,
255:             healthImpact: "Bones & Diabetes",
256:             intakeLevel: "ENHANCED INTAKE & SUN EXPOSURE",
257:             source: "DIET & SUN EXPOSURE",
258:         },
259:         vitaminE: {
260:             score: 5,
261:             healthImpact: "Skin & Immune system",
262:             intakeLevel: "ENHANCED INTAKE",
263:             source: "DIET",
264:         },
265:     },
266:     fattyAcids: {
267:         omegaFattyAcids: {
268:             score: 5,
269:             healthImpact: "Cardiac health & Triglycerides",
270:             intakeLevel: "ENHANCED INTAKE (VEG SOURCES)",
271:             source: "ENHANCED INTAKE (VEG/FISH OIL) & DIET",
272:         },
273:     },
274:     elements: {
275:         calcium: {
276:             score: 3,
277:             healthImpact: "Bone health & Nerve function",
278:             intakeLevel: "ENHANCED INTAKE",
279:             source: "DIET",
280:         },

```



```

281:     iodine: {
282:         score: 3,
283:         healthImpact: "Detoxification & Thyroid hormones",
284:         intakeLevel: "ENHANCED INTAKE",
285:         source: "DIET",
286:     },
287:     iron: {
288:         score: 3,
289:         healthImpact: "Haemoglobin & Energy",
290:         intakeLevel: "RESTRICTED INTAKE",
291:         source: "DIET",
292:     },
293:     magnesium: {
294:         score: 3,
295:         healthImpact: "Heart health & Immunity",
296:         intakeLevel: "ENHANCED INTAKE",
297:         source: "DIET",
298:     },
299:     phosphorus: {
300:         score: 3,
301:         healthImpact: "Bone health & Kidney function",
302:         intakeLevel: "ENHANCED INTAKE",
303:         source: "DIET",
304:     },
305:     selenium: {
306:         score: 3,
307:         healthImpact: "Cognitive & Muscle function",
308:         intakeLevel: "ENHANCED INTAKE",
309:         source: "DIET",
310:     },
311:     zinc: {
312:         score: 3,
313:         healthImpact: "Fertility & Skin",
314:         intakeLevel: "ENHANCED INTAKE",
315:         source: "DIET",
316:     },
317: },
318: complexNutrients: {
319:     antiInflammatory: {
320:         score: 5,
321:         healthImpact: "Pain control & Organ health",
322:         intakeLevel: "ENHANCED INTAKE",
323:         source: "DIET",
324:     },
325:     antioxidants: {
326:         score: 6,
327:         healthImpact: "Skin & Immune system",
328:         intakeLevel: "ENHANCED INTAKE",
329:         source: "DIET",
330:     },
331: },
332: },
333: sportsAndFitness: {
334:     exerciseType: {
335:         endurancePotential: {
336:             level: "High Endurance Potential",
337:             description:
338:                 "Excellent genetic predisposition for endurance activities",
339:         },
340:         powerPotential: {
341:             level: "Average Power Potential",
342:             description: "Moderate power output capacity",
343:         },
344:         strengthProfile: {
345:             level: "High Strength Profile",
346:             description: "Good potential for strength training",
347:         },
348:         exerciseTime: {
349:             level: "Evening time is more beneficial than morning",
350:             description: "MORNING Vs. EVENING",
351:         },
352:     },
353:     performance: {

```

```

354:     enduranceCapacity: {
355:         level: "High Endurance Potential",
356:         description: "Superior aerobic capacity",
357:     },
358:     fatigueResistance: {
359:         level: "Normal fatigue resistance. Average endurance capacity",
360:         description: "Average endurance capacity",
361:     },
362:     bloodFlow: {
363:         level: "Reduced vascular efficiency, affects endurance sports.",
364:         description: "Affects endurance sports",
365:     },
366:     oxygenEfficiency: {
367:         level: "Normal VO2 Max. Need practice to excel in endurance sports",
368:         description: "Need practice to excel",
369:     },
370:     waterLoss: {
371:         level:
372:             "Increased water and electrolyte loss tendency. Focus on Hydration and electrolyte management dur
373:         description: "Focus on hydration",
374:     },
375:     lactateClearing: {
376:         level: "High lactate clearance. Beneficial for Endurance sports.",
377:         description: "Beneficial for endurance",
378:     },
379:     recoveryEfficiency: {
380:         level:
381:             "High recovery efficiency. Enhanced sports potential & reduced injury risk",
382:         description: "Enhanced sports potential",
383:     },
384:     bodyComposition: {
385:         level: "Low fat accumulation. Increased muscle tendency.",
386:         description: "Increased muscle tendency",
387:     },
388:     injuryRisk: {
389:         level:
390:             "High injury tendency. Thorough injury management steps to be taken.",
391:         description: "Thorough injury management needed",
392:     },
393:     achillesTendonInjury: {
394:         level: "Low injury tendency. Ensure adequate warmup before exercises",
395:         description: "Ensure adequate warmup",
396:     },
397:     ligamentInjury: {
398:         level:
399:             "Low ACL injury tendency. Ensure adequate warmup before exercises",
400:         description: "Ensure adequate warmup",
401:     },
402:     rupture: {
403:         level: "Low rupture tendency. Ensure adequate warmup before exercises",
404:         description: "Ensure adequate warmup",
405:     },
406:     muscleCramps: {
407:         level:
408:             "Low risk of muscle cramps. Ensure adequate warmup before exercises",
409:         description: "Ensure adequate warmup",
410:     },
411: },
412: },
413: lifestyleConditions: {
414:     heartVascularHealth: {
415:         hypertension: { status: "strength" },
416:         leftVentricularHypertrophy: { status: "strength" },
417:         atherosclerosis: { status: "improvement" },
418:         familialHypercholesterolemia: { status: "strength" },
419:         cardiomyopathy: { status: "strength" },
420:         cholesterolImbalance: { status: "improvement" },
421:         stroke: { status: "improvement" },
422:     },
423:     diabetes: {
424:         obesity: { status: "improvement" },
425:         diabetesType2: { status: "improvement" },
426:     },

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```

427:     liverHealth: {
428:         nafld: { status: "improvement" },
429:         liverCirrhosis: { status: "strength" },
430:     },
431:     boneHealth: {
432:         osteoporosis: { status: "improvement" },
433:         osteoarthritis: { status: "improvement" },
434:     },
435:     gutHealth: {
436:         irritableBowelSyndrome: { status: "improvement" },
437:         celiacDisease: { status: "strength" },
438:     },
439:     hormoneSystem: {
440:         hypothyroidism: { status: "improvement" },
441:     },
442: },
443:     metabolicCore: {
444:         methylation: {
445:             genes: ["MTHFR"],
446:             genotype: "C/T",
447:             impact: "Reduced folate metabolism",
448:             advice: "Consider L-methylfolate supplementation.",
449:         },
450:         inflammation: {
451:             genes: ["CRP"],
452:             genotype: "G/A",
453:             impact: "Increased inflammatory response",
454:             advice: "Incorporate anti-inflammatory foods.",
455:         },
456:         oxidativeStress: {
457:             genes: ["SOD2"],
458:             genotype: "T/C",
459:             impact: "Reduced antioxidant defense",
460:             advice: "Increase antioxidant-rich foods and supplements.",
461:         },
462:         detoxification: {
463:             genes: ["GSTP1"],
464:             genotype: "A/G",
465:             impact: "Impaired detoxification capacity",
466:             advice: "Support liver health with cruciferous vegetables.",
467:         },
468:         vitaminDMetabolism: {
469:             genes: ["VDR"],
470:             genotype: "C/C",
471:             impact: "Reduced Vitamin D absorption",
472:             advice: "Ensure adequate Vitamin D intake and sun exposure.",
473:         },
474:         lipidMetabolism: {
475:             genes: ["APOE"],
476:             genotype: "E3/E4",
477:             impact: "Increased LDL cholesterol tendency",
478:             advice: "Monitor lipid levels and follow a heart-healthy diet.",
479:         },
480:         insulinResistance: {
481:             genes: ["TCF7L2"],
482:             genotype: "T/T",
483:             impact: "Higher risk of insulin resistance",
484:             advice: "Focus on low glycemic index foods and regular exercise.",
485:         },
486:         circadianRhythm: {
487:             genes: ["CLOCK"],
488:             genotype: "C/G",
489:             impact: "Altered sleep-wake cycle",
490:             advice:
491:                 "Maintain consistent sleep schedule and optimize sleep environment.",
492:         },
493:         exerciseResponsiveness: {
494:             genes: ["ACTN3"],
495:             genotype: "R/X",
496:             impact: "Enhanced power and strength response to training",
497:             advice: "Incorporate strength and power training into routine.",
498:         },
499:         snackingTendency: {

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500:     genes: ["FTO"],
501:     genotype: "A/A",
502:     impact: "Increased tendency for snacking and higher BMI",
503:     advice: "Practice mindful eating and portion control.",
504: },
505: oestrogenElimination: {
506:     genes: ["COMT"],
507:     genotype: "G/A",
508:     impact: "Slower estrogen elimination",
509:     advice: "Support liver detoxification pathways.",
510: },
511: powerVsEndurance: {
512:     genes: ["ACE"],
513:     genotype: "I/D",
514:     impact: "Balanced power and endurance potential",
515:     advice: "Vary training to include both power and endurance exercises.",
516: },
517: injuryRecovery: {
518:     genes: ["COL1A1"],
519:     genotype: "G/T",
520:     impact: "Slower collagen repair, increased injury risk",
521:     advice: "Focus on adequate protein and Vitamin C for tissue repair.",
522: },
523: fluidLossTendency: {
524:     genes: ["AGT"],
525:     genotype: "T/C",
526:     impact: "Increased fluid and electrolyte loss during exercise",
527:     advice: "Ensure proper hydration and electrolyte replenishment.",
528: },
529: vo2Max: {
530:     genes: ["PPARGC1A"],
531:     genotype: "G/G",
532:     impact: "High VO2 Max potential",
533:     advice: "Optimize cardiovascular training for peak performance.",
534: },
535: },
536: digestiveHealth: {
537:     gutHealth: {
538:         level: "NORMAL GUT HEALTH",
539:         description: "Good overall digestive function",
540:     },
541:     glutenIntolerance: {
542:         level: "LOW INTOLERANCE",
543:         description: "CONDITIONAL GLUTEN ELIMINATION NEEDED",
544:     },
545:     celiacDiseaseTendency: {
546:         level: "LOW TENDENCY",
547:         description: "Low genetic risk for celiac disease",
548:     },
549:     impactOnBonesJoints: {
550:         level: "NO IMPACT ON BONE HEALTH",
551:         description: "Digestive health does not affect bone health",
552:     },
553:     lactoseIntolerance: {
554:         level: "HIGH INTOLERANCE",
555:         description: "LACTOSE ELIMINATION NEEDED",
556:     },
557:     probioticsRequirement: {
558:         level: "PROBIOTICS NEEDED",
559:         description: "FOOD & SUPPLEMENTS",
560:     },
561: },
562: genesAndAddiction: {
563:     alcoholAddiction: {
564:         tendency: "LOW",
565:         description: "Low genetic predisposition to alcohol dependency",
566:     },
567:     smokingAddiction: {
568:         tendency: "NORMAL",
569:         description: "Average nicotine addiction susceptibility",
570:     },
571:     snackingHabits: {
572:         tendency: "HIGH",

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573:     description: "Genetic tendency toward frequent snacking",
574: },
575: altruism: {
576:     tendency: "HIGH",
577:     description: "Strong genetic predisposition toward helping others",
578: },
579: },
580: sleepAndRest: {
581:     sleepCycle: {
582:         impact: "DELAYED SLEEP CYCLE",
583:         intervention: "EXERCISE IN THE EVENING AVOID CARBS DURING BREAKFAST",
584:     },
585:     sleepApnea: {
586:         impact: "INCREASED CHANCES OF SLEEP APNEA",
587:         intervention: "EXERCISE REGULARLY SEEK MEDICAL ADVICE IF ISSUE PERSISTS",
588:     },
589:     sleepDepth: {
590:         impact: "LOW SLEEP DEPTH",
591:         intervention: "CONSUME CURD RICE IN DINNER FOR BETTER SLEEP",
592:     },
593:     stressSensitivity: {
594:         impact: "LOW STRESS SENSITIVITY",
595:         intervention: "EXERCISE REGULARLY FOR A BETTER SLEEP CYCLE",
596:     },
597: },
598: allergiesAndSensitivity: {
599:     dustAllergy: { tendency: "NORMAL" },
600:     pesticideSensitivity: { tendency: "HIGH" },
601:     smokeSensitivity: { tendency: "HIGH" },
602:     automobileSmokeSensitivity: { tendency: "HIGH" },
603:     generalAdvice:
604:         "THE BEST WAY TO REDUCE ALLERGIES IS TO STAY AWAY FROM THE SOURCE, NO ROCKET SCIENCE HOWEVER THE FOLLOWING",
605: },
606: geneTestResults: [
607:     {
608:         geneName: "ALDH2 Aldehyde dehydrogenase 2",
609:         variation: "G>A",
610:         result: "GG",
611:     },
612:     {
613:         geneName: "MTHFR Methylenetetrahydrofolate reductase",
614:         variation: "C>T",
615:         result: "CT",
616:     },
617: ],
618: metabolicSummary: {
619:     strengths: ["Efficient detoxification", "Normal lipid metabolism"],
620:     weaknesses: [
621:         "Increased oxidative stress",
622:         "Higher risk of insulin resistance",
623:     ],
624: },
625: preventiveHealth: {
626:     diagnosticTests: {
627:         halfYearly: ["PLASMA SUGAR (FASTING & PP)", "VITAMIN D"],
628:         yearly: [
629:             "HbA1c",
630:             "LIPID PROFILE",
631:             "SERUM HOMOCYSTEINE",
632:             "VITAMIN B12",
633:             "LIVER PROFILE",
634:         ],
635:     },
636:     nutritionalSupplements: [
637:         { supplement: "VITAMIN D", needed: true },
638:         { supplement: "METHYL FOLATE + METHYL COBALAMINE + B6", needed: true },
639:         { supplement: "OMEGA FATTY ACIDS (FISH OIL)", needed: true },
640:         { supplement: "FOLIC ACID + COBALAMINE + B6", needed: true },
641:         { supplement: "OMEGA FATTY ACIDS (VEG)", needed: true },
642:         { supplement: "VITAMIN E", needed: true },
643:         { supplement: "PROBIOTICS", needed: true },
644:     ],
645: },

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```

646:   familyGeneticImpact: [
647:     {
648:       gene: "MnSOD",
649:       normalAlleles: "AA",
650:       yourResult: "AG",
651:       healthImpact:
652:         "INCREASED TENDENCY OF OXIDATIVE STRESS NEED OF ANTI-OXIDANT SUPPLEMENTS",
653:     },
654:     {
655:       gene: "FTO",
656:       normalAlleles: "TT",
657:       yourResult: "AT",
658:       healthImpact:
659:         "INCREASED TENDENCY OF INSULIN RESISTANCE WEIGHT AND CALORIE MANAGEMENT IMPORTANT TO MANAGE AND REDU
660:     },
661:   ],
662:   categories: [
663:     {
664:       id: "category_1",
665:       category: "Lipid Metabolism",
666:       imageUrl: "/table/content.png",
667:       description:
668:         "This category includes genes related to lipid metabolism and cardiovascular risk.",
669:       parameters: [
670:         "APOA1y",
671:         "APOB",
672:         "LDLR",
673:         "CETP",
674:         "LIPC",
675:         "LPL",
676:         "SCARB1",
677:         "ABCA1",
678:         "PCSK9",
679:         "ANGPTL3",
680:         "ANGPTL4",
681:         "PLTP",
682:         "APOC3",
683:         "APOE",
684:         "SREBF2",
685:         "HMGCR",
686:         "LCAT",
687:         "CYP7A1",
688:         "PPARA",
689:         "PPARG",
690:         "NR1H3",
691:       ],
692:       isActive: true,
693:       order: 1,
694:     },
695:   ],
696:   geneticParameters: [],
697:   metadata: {
698:     lastUpdated: "2025-07-20T12:00:00.000Z",
699:     version: "1.0.0",
700:     totalCategories: 1,
701:     totalParameters: 21,
702:   },
703:   summaries: {
704:     nutrigenomicsSummary:
705:       "Based on the overall nutrigenomics analysis, provide expert summary for personalized diet and lifestyle",
706:     exerciseGenomicsSummary:
707:       "Based on the overall genomics analysis, provide expert summary for personalized exercise plan...",
708:   },
709: });
710:
711: const AdminPage = () => {
712:   const [reportData, setReportData] =
713:     useState<ComprehensiveReportData>(getDefaultReportData);
714:   const { toast } = useToast();
715:
716:   // Load data from API on component mount
717:   useEffect(() => {
718:     const fetchData = async () => {

```

```

719:     try {
720:       const response = await fetch("/api/report-data");
721:       if (response.ok) {
722:         const data = await response.json();
723:         setReportData(data);
724:         toast({
725:           description: "Report data has been loaded from the backend.",
726:           variant: "success",
727:           duration: 3000,
728:         });
729:       } else {
730:         toast({
731:           title: "Failed to load data",
732:           description:
733:             "Could not load report data from the server. Using default data.",
734:           variant: "destructive",
735:           duration: 3000,
736:         });
737:       }
738:     } catch (error) {
739:       console.error("Error fetching report data:", error);
740:       toast({
741:         title: "Error fetching data",
742:         description:
743:           "An error occurred while fetching data from the server. Using default data.",
744:         variant: "destructive",
745:         duration: 3000,
746:       });
747:     }
748:   };
749:   fetchData();
750: }, []);
751:
752: const saveReportData = async () => {
753:   try {
754:     const response = await fetch("/api/report-data", {
755:       method: "POST",
756:       headers: {
757:         "Content-Type": "application/json",
758:       },
759:       body: JSON.stringify(reportData),
760:     });
761:
762:     if (response.ok) {
763:       toast({
764:         title: "Report data saved!",
765:         description: "Your progress has been saved to the backend.",
766:         variant: "success",
767:         duration: 3000,
768:       });
769:     } else {
770:       const errorData = await response.json();
771:       toast({
772:         title: "Failed to save data",
773:         description:
774:           errorData.error || "An error occurred while saving data.",
775:         variant: "destructive",
776:         duration: 3000,
777:       });
778:     }
779:   } catch (error) {
780:     console.error("Error saving report data:", error);
781:     toast({
782:       title: "Error saving data",
783:       description: "An unexpected error occurred while saving data.",
784:       variant: "destructive",
785:       duration: 3000,
786:     });
787:   }
788: };
789:
790: const resetSection = (section: keyof ComprehensiveReportData) => {
791:   setReportData((prev) => {

```

```

792:     const defaultData = getDefaultReportData();
793:     return { ...prev, [section]: defaultData[section] };
794: });
795: toast({
796:   title: `${section} reset!`,
797:   description: `The ${section} section has been reset to default values.`,
798:   duration: 3000,
799: });
800: };
801:
802: const updatePatientInfo = (field: keyof PatientInfo, value: string) => {
803:   setReportData((prev) => ({
804:     ...prev,
805:     patientInfo: { ...prev.patientInfo, [field]: value },
806:   }));
807: };
808:
809: const updateReportContent = (field: keyof ReportContent, value: string) => {
810:   setReportData((prev) => ({
811:     ...prev,
812:     content: { ...prev.content, [field]: value },
813:   }));
814: };
815:
816: const updateReportSettings = (field: keyof ReportSettings, value: string) => {
817:   setReportData((prev) => ({
818:     ...prev,
819:     settings: { ...prev.settings, [field]: value },
820:   }));
821: };
822:
823: // NEW: Update function for dynamicDietFieldDefinitions
824: const updateDynamicDietFieldDefinitions = (
825:   definitions: DynamicDietFieldDefinition[]
826: ) => {
827:   setReportData((prev) => ({
828:     ...prev,
829:     dynamicDietFieldDefinitions: definitions,
830:   }));
831: };
832:
833: // NEW: Update function for patientDietAnalysisResults
834: const updatePatientDietAnalysisResult = (
835:   fieldId: string,
836:   data: Partial<PatientDietAnalysisResult>
837: ) => {
838:   setReportData((prev) => {
839:     const existingIndex = prev.patientDietAnalysisResults.findIndex(
840:       (r) => r.fieldId === fieldId
841:     );
842:     const newResults = [...prev.patientDietAnalysisResults];
843:
844:     if (existingIndex > -1) {
845:       newResults[existingIndex] = { ...newResults[existingIndex], ...data };
846:     } else {
847:       // If result for this fieldId doesn't exist, create a new one
848:       newResults.push({
849:         fieldId,
850:         score: 0,
851:         level: "NORMAL",
852:         recommendation: "",
853:         ...data,
854:       });
855:     }
856:     return { ...prev, patientDietAnalysisResults: newResults };
857:   });
858: };
859:
860: const updateNutritionData = (
861:   category: keyof NutritionData,
862:   nutrient: string,
863:   field: keyof NutrientData,
864:   value: string | number

```



```

865: ) => {
866:   setReportData((prev) => ({
867:     ...prev,
868:     nutritionData: {
869:       ...prev.nutritionData,
870:       [category]: {
871:         ...prev.nutritionData[category],
872:         [nutrient]: {
873:           ...prev.nutritionData[category][
874:             nutrient as keyof (typeof prev.nutritionData)[typeof category]
875:           ],
876:           [field]: value,
877:         },
878:       },
879:     },
880:   }));
881: };
882:
883: const updateSportsAndFitness = (
884:   section: keyof SportsAndFitness,
885:   field: string,
886:   data: Partial<ExerciseData>
887: ) => {
888:   setReportData((prev) => ({
889:     ...prev,
890:     sportsAndFitness: {
891:       ...prev.sportsAndFitness,
892:       [section]: {
893:         ...prev.sportsAndFitness[section],
894:         [field]: {
895:           ...prev.sportsAndFitness[section][
896:             field as keyof (typeof prev.sportsAndFitness)[typeof section]
897:           ],
898:           ...data,
899:         },
900:       },
901:     },
902:   }));
903: };
904:
905: const updateLifestyleCondition = (
906:   section: keyof LifestyleConditions,
907:   field: string,
908:   status: HealthConditionStatus["status"]
909: ) => {
910:   setReportData((prev) => ({
911:     ...prev,
912:     lifestyleConditions: {
913:       ...prev.lifestyleConditions,
914:       [section]: {
915:         ...prev.lifestyleConditions[section],
916:         [field]: {
917:           ...prev.lifestyleConditions[section][
918:             field as keyof (typeof prev.lifestyleConditions)[typeof section]
919:           ],
920:           status: status,
921:         },
922:       },
923:     },
924:   }));
925: };
926:
927: const updateMetabolicCore = (
928:   field: keyof MetabolicCore,
929:   data: Partial<MetabolicGeneData>
930: ) => {
931:   setReportData((prev) => ({
932:     ...prev,
933:     metabolicCore: {
934:       ...prev.metabolicCore,
935:       [field]: {
936:         ...prev.metabolicCore[field],
937:         ...data,

```



```

1011:     },
1012:   }));
1013: };
1014:
1015: const updatePreventiveHealth = (
1016:   section: keyof PreventiveHealth,
1017:   data: any
1018: ) => {
1019:   setReportData((prev) => ({
1020:     ...prev,
1021:     [section]: data,
1022:   }));
1023: };
1024:
1025: const addFamilyGeneticImpact = () => {
1026:   setReportData((prev) => ({
1027:     ...prev,
1028:     familyGeneticImpact: [
1029:       ...prev.familyGeneticImpact,
1030:       { gene: "", normalAlleles: "", yourResult: "", healthImpact: "" },
1031:     ],
1032:   }));
1033: };
1034:
1035: const updateFamilyGeneticImpact = (
1036:   index: number,
1037:   field: keyof FamilyGeneticImpact,
1038:   value: string
1039: ) => {
1040:   setReportData((prev) => {
1041:     const newImpacts = [...prev.familyGeneticImpact];
1042:     newImpacts[index] = { ...newImpacts[index], [field]: value };
1043:     return { ...prev, familyGeneticImpact: newImpacts };
1044:   });
1045: };
1046:
1047: const removeFamilyGeneticImpact = (index: number) => {
1048:   setReportData((prev) => ({
1049:     ...prev,
1050:     familyGeneticImpact: prev.familyGeneticImpact.filter(
1051:       (_, i) => i !== index
1052:     ),
1053:   }));
1054: };
1055:
1056: const updateGeneTestResult = (
1057:   index: number,
1058:   field: keyof GeneTestResult,
1059:   value: string
1060: ) => {
1061:   setReportData((prev) => {
1062:     const newGeneTests = [...prev.geneTestResults];
1063:     newGeneTests[index] = { ...newGeneTests[index], [field]: value };
1064:     return { ...prev, geneTestResults: newGeneTests };
1065:   });
1066: };
1067:
1068: const addGeneTestResult = () => {
1069:   setReportData((prev) => ({
1070:     ...prev,
1071:     geneTestResults: [
1072:       ...prev.geneTestResults,
1073:       { geneName: "", variation: "", result: "" },
1074:     ],
1075:   }));
1076: };
1077:
1078: const removeGeneTestResult = (index: number) => {
1079:   setReportData((prev) => ({
1080:     ...prev,
1081:     geneTestResults: prev.geneTestResults.filter((_, i) => i !== index),
1082:   }));
1083: };

```

```

1084:
1085: const updateReportSummaries = (
1086:   field: keyof ReportSummaries,
1087:   value: string
1088: ) => {
1089:   setReportData((prev) => ({
1090:     ...prev,
1091:     summaries: { ...prev.summaries, [field]: value },
1092:   }));
1093: };
1094:
1095: return (
1096:   <div className="max-w-7xl mx-auto py-10">
1097:     <h1 className="text-3xl font-bold mb-5">Admin Dashboard</h1>
1098:
1099:     <div className="mb-5 flex flex-col sm:flex-row gap-2 sm:items-center sm:justify-start no-print">
1100:       <Button onClick={saveReportData} className="w-full sm:w-auto">
1101:         Save Data
1102:       </Button>
1103:       <Button
1104:         onClick={() => setReportData(getDefaultReportData())}
1105:         className="w-full sm:w-auto"
1106:       >
1107:         Reset All
1108:       </Button>
1109:     </div>
1110:
1111:     <Tabs defaultValue="patient-info" className="w-[100%]">
1112:       <div className="w-full overflow-x-auto scrollbar-hide">
1113:         <TabsList className="flex gap-2 min-w-max bg-white shadow-sm px-4 py-2 rounded-md border border-
1114:           <TabsTrigger value="patient-info">Patient Info</TabsTrigger>
1115:           <TabsTrigger value="content">Content</TabsTrigger>
1116:           <TabsTrigger value="genetic-parameters">
1117:             Table Of Content
1118:           </TabsTrigger>
1119:           <TabsTrigger value="settings">Settings</TabsTrigger>
1120:           <TabsTrigger value="diet-fields">Diet Fields</TabsTrigger>
1121:           <TabsTrigger value="nutrition">Nutrition</TabsTrigger>
1122:           <TabsTrigger value="sports-fitness">Sports & Fitness</TabsTrigger>
1123:           <TabsTrigger value="lifestyle-conditions">Lifestyle</TabsTrigger>
1124:           <TabsTrigger value="metabolic-core">Metabolic Core</TabsTrigger>
1125:           <TabsTrigger value="digestive-health">Digestive Health</TabsTrigger>
1126:           <TabsTrigger value="genes-addiction">Genes & Addiction</TabsTrigger>
1127:           <TabsTrigger value="sleep-rest">Sleep & Rest</TabsTrigger>
1128:           <TabsTrigger value="allergies-sensitivity">Allergies</TabsTrigger>
1129:           <TabsTrigger value="preventive-health">
1130:             Preventive Health
1131:           </TabsTrigger>
1132:           <TabsTrigger value="family-genetic-impact">
1133:             Family Impact
1134:           </TabsTrigger>
1135:           <TabsTrigger value="genes">Gene Results</TabsTrigger>
1136:           <TabsTrigger value="summaries">Summaries</TabsTrigger>
1137:           <TabsTrigger value="pdf-export">PDF Export</TabsTrigger>
1138:           <TabsTrigger value="import-export">Import/Export</TabsTrigger>
1139:         </TabsList>
1140:       </div>
1141:
1142:       <TabsContent value="patient-info">
1143:         <PatientInfoAdmin
1144:           patientInfo={reportData.patientInfo}
1145:           updatePatientInfo={updatePatientInfo}
1146:           onSave={() => saveReportData()}
1147:           onReset={() => resetSection("patientInfo")}
1148:         />
1149:       </TabsContent>
1150:       <TabsContent value="content">
1151:         <ContentAdmin
1152:           content={reportData.content}
1153:           updateContent={updateReportContent}
1154:           onSave={() => saveReportData()}
1155:           onReset={() => resetSection("content")}
1156:         />

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1157:     </TabsContent>
1158:
1159:     <TabsContent value="genetic-parameters">
1160:         <GeneticParametersAdmin
1161:             geneticParameters={reportData.geneticParameters}
1162:             updateParameters={({updated}) =>
1163:                 setReportData((prev) => ({ ...prev, geneticParameters: updated })))
1164:         >
1165:             onSave={() => saveReportData()}
1166:             onReset={() => resetSection("geneticParameters")}
1167:         </>
1168:     </TabsContent>
1169:
1170:     <TabsContent value="settings">
1171:         <SettingsAdmin
1172:             settings={reportData.settings}
1173:             updateSettings={updateReportSettings}
1174:             onSave={() => saveReportData()}
1175:             onReset={() => resetSection("settings")}
1176:         >
1177:     </TabsContent>
1178:
1179:     <TabsContent value="diet-fields">
1180:         { " " }
1181:         { /* Changed tab content value */ }
1182:         <DynamicDietFieldAdmin
1183:             dynamicDietFieldDefinitions={reportData.dynamicDietFieldDefinitions}
1184:             updateDynamicDietFieldDefinitions={
1185:                 updateDynamicDietFieldDefinitions
1186:             }
1187:             onSave={() => saveReportData()}
1188:             onReset={() => resetSection("dynamicDietFieldDefinitions")}
1189:         >
1190:     </TabsContent>
1191:     <TabsContent value="nutrition">
1192:         <NutritionAdmin
1193:             nutritionData={reportData.nutritionData}
1194:             updateNutritionData={updateNutritionData}
1195:             onSave={() => saveReportData()}
1196:             onReset={() => resetSection("nutritionData")}
1197:         >
1198:     </TabsContent>
1199:     <TabsContent value="sports-fitness">
1200:         <SportsFitnessAdmin
1201:             sportsAndFitness={reportData.sportsAndFitness}
1202:             updateSportsAndFitness={updateSportsAndFitness}
1203:             onSave={() => saveReportData()}
1204:             onReset={() => resetSection("sportsAndFitness")}
1205:         >
1206:     </TabsContent>
1207:     <TabsContent value="lifestyle-conditions">
1208:         <LifestyleConditionsAdmin
1209:             lifestyleConditions={reportData.lifestyleConditions}
1210:             updateLifestyleCondition={updateLifestyleCondition}
1211:             onSave={() => saveReportData()}
1212:             onReset={() => resetSection("lifestyleConditions")}
1213:         >
1214:     </TabsContent>
1215:     <TabsContent value="metabolic-core">
1216:         <MetabolicCoreAdmin
1217:             metabolicCore={reportData.metabolicCore}
1218:             updateMetabolicCore={updateMetabolicCore}
1219:             onSave={() => saveReportData()}
1220:             onReset={() => resetSection("metabolicCore")}
1221:         >
1222:     </TabsContent>
1223:     <TabsContent value="digestive-health">
1224:         <DigestiveHealthAdmin
1225:             digestiveHealth={reportData.digestiveHealth}
1226:             updateDigestiveHealth={updateDigestiveHealth}
1227:             onSave={() => saveReportData()}
1228:             onReset={() => resetSection("digestiveHealth")}
1229:         >

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1230:         </TabsContent>
1231:         <TabsContent value="genes-addiction">
1232:             <GenesAddictionAdmin
1233:                 genesAndAddiction={reportData.genesAndAddiction}
1234:                 updateGenesAndAddiction={updateGenesAndAddiction}
1235:                 onSave={() => saveReportData()}
1236:                 onReset={() => resetSection("genesAndAddiction")}
1237:             />
1238:         </TabsContent>
1239:         <TabsContent value="sleep-rest">
1240:             <SleepRestAdmin
1241:                 sleepAndRest={reportData.sleepAndRest}
1242:                 updateSleepAndRest={updateSleepAndRest}
1243:                 onSave={() => saveReportData()}
1244:                 onReset={() => resetSection("sleepAndRest")}
1245:             />
1246:         </TabsContent>
1247:         <TabsContent value="allergies-sensitivity">
1248:             <AllergiesSensitivityAdmin
1249:                 allergiesAndSensitivity={reportData.allergiesAndSensitivity}
1250:                 updateAllergiesAndSensitivity={updateAllergiesAndSensitivity}
1251:                 onSave={() => saveReportData()}
1252:                 onReset={() => resetSection("allergiesAndSensitivity")}
1253:             />
1254:         </TabsContent>
1255:         <TabsContent value="preventive-health">
1256:             <PreventiveHealthAdmin
1257:                 preventiveHealth={reportData.preventiveHealth}
1258:                 updatePreventiveHealth={updatePreventiveHealth}
1259:                 onSave={() => saveReportData()}
1260:                 onReset={() => resetSection("preventiveHealth")}
1261:             />
1262:         </TabsContent>
1263:         <TabsContent value="family-genetic-impact">
1264:             <FamilyGeneticImpactAdmin
1265:                 familyGeneticImpact={reportData.familyGeneticImpact}
1266:                 addFamilyGeneticImpact={addFamilyGeneticImpact}
1267:                 updateFamilyGeneticImpact={updateFamilyGeneticImpact}
1268:                 removeFamilyGeneticImpact={removeFamilyGeneticImpact}
1269:                 onSave={() => saveReportData()}
1270:                 onReset={() => resetSection("familyGeneticImpact")}
1271:             />
1272:         </TabsContent>
1273:         <TabsContent value="genes">
1274:             <GeneResultsAdmin
1275:                 geneTestResults={reportData.geneTestResults}
1276:                 updateGeneTestResult={updateGeneTestResult}
1277:                 addGeneTestResult={addGeneTestResult}
1278:                 removeGeneTestResult={removeGeneTestResult}
1279:                 onSave={() => saveReportData()}
1280:                 onReset={() => resetSection("geneTestResults")}
1281:             />
1282:         </TabsContent>
1283:         <TabsContent value="summaries">
1284:             <SummariesAdmin
1285:                 summaries={reportData.summaries}
1286:                 updateSummaries={updateReportSummaries}
1287:                 onSave={() => saveReportData()}
1288:                 onReset={() => resetSection("summaries")}
1289:             />
1290:         </TabsContent>
1291:         <TabsContent value="pdf-export">
1292:             <PDFGenerator reportData={reportData} />
1293:         </TabsContent>
1294:         <TabsContent value="import-export">
1295:             <ImportExportAdmin
1296:                 reportData={reportData}
1297:                 setReportData={setReportData}
1298:             />
1299:         </TabsContent>
1300:     </Tabs>
1301: </div>
1302: );

```

```
1303: };
1304:
1305: export default AdminPage;
```

■ File: app\api\comprehensive-report-data\route.ts

```
=====
1: import { type NextRequest, NextResponse } from "next/server"
2:
3: // In-memory storage for demo purposes
4: let reportData: any = null
5:
6: export async function GET() {
7:   if (!reportData) {
8:     return NextResponse.json({ message: "No data found" }, { status: 404 })
9:   }
10:
11:   return NextResponse.json(reportData)
12: }
13:
14: export async function POST(request: NextRequest) {
15:   try {
16:     const data = await request.json()
17:     reportData = data
18:
19:     return NextResponse.json({ message: "Data saved successfully" })
20:   } catch (error) {
21:     return NextResponse.json({ message: "Error saving data" }, { status: 500 })
22:   }
23: }
```

■ File: app\api\report-data\route.ts

```
=====
1: import { promises as fs } from "fs";
2: import path from "path";
3: import { NextResponse } from "next/server";
4: import { v4 as uuidv4 } from "uuid"; // Import uuid
5: import type { ComprehensiveReportData } from "@types/report-types";
6:
7: const dataFilePath = path.join(process.cwd(), "data", "report-data.json");
8:
9: // Default data to initialize if the file doesn't exist
10: const defaultReportData: ComprehensiveReportData = {
11:   patientInfo: {
12:     name: "John",
13:     gender: "MALE",
14:     birthDate: "1990-01-01",
15:     sampleCode: "DNL1000000110",
16:     sampleDate: "2023-01-15",
17:     reportDate: "2023-02-01",
18:     reportAuth: "Dr. Jane Smith, PhD",
19:     genomicAnalytics: "Genomics Lab Inc.",
20:     checkedBy: "Dr. Alice Brown",
21:     scientificContent: "Dr. Robert White",
22:     disclaimer:
23:       "This report is for informational purposes only and should not be used as a substitute for professional medical advice. Consult your healthcare provider for more information."
24:   },
25:   signature1: "",
26:   signature2: "",
27:   content: {
28:     introduction:
29:       "Welcome to your personalized nutrigenomics report. This document provides insights into how your genes influence your health and well-being."
30:   },
31:   genomicExplanation:
32:     "Genomics is the study of an organism's complete set of DNA, including all of its genes. It helps us understand how our genes affect our health and how we can optimize our diet and lifestyle based on our genetic makeup."
33:   },
34:   genesHealthImpact:
35:     "Your genes play a significant role in determining your health predispositions. This report highlights key genetic factors that may influence your risk of certain health conditions and provides personalized recommendations to support your overall health."
36:   },
37:   fundamentalsPRS:
38:     "Polygenic Risk Scores (PRS) combine the effects of many genetic variants to estimate an individual's risk of developing certain health conditions. This report provides insights into your PRS for various health conditions and offers personalized recommendations to help you manage your risk."
39:   },
40:   utilityDoctors:
41:     "This report is designed to be a valuable tool for doctors and dietitians, providing actionable genetic insights that can inform their clinical decisions and help them provide personalized care to their patients."
42:   }
43: }
```

```

38:     microarrayExplanation:
39:         "Microarray technology allows for the simultaneous measurement of the expression levels of thousands of genes."
40:     microarrayData:
41:         "Your microarray data has been analyzed to identify specific genetic variations relevant to your health."
42: },
43: settings: {
44:     title: "Comprehensive Health Report",
45:     subtitle: "A Detailed Analysis of Your Genetics",
46:     companyName: "Health Solutions Inc.",
47:     headerColor: "#2C3E50",
48:     accentColor: "#E74C3C",
49:     fonts: {
50:         primary: "Helvetica, Arial, sans-serif",
51:         secondary: "Georgia, serif",
52:         mono: "Courier New, monospace",
53:     },
54: },
55: // NEW: Default dynamic diet field definitions
56: dynamicDietFieldDefinitions: [
57:     {
58:         _uuid: uuidv4(),
59:         id: "carbohydrate_sensitivity",
60:         label: "Carbohydrate Sensitivity",
61:         category: "Macronutrients",
62:         min: 1,
63:         max: 10,
64:         highRecommendation: "Reduce carbohydrate intake, focus on complex carbs.",
65:         normalRecommendation: "Maintain balanced carbohydrate intake.",
66:         lowRecommendation: "Ensure adequate carbohydrate intake.",
67:     },
68:     {
69:         _uuid: uuidv4(),
70:         id: "fat_sensitivity",
71:         label: "Fat Sensitivity",
72:         category: "Macronutrients",
73:         min: 1,
74:         max: 10,
75:         highRecommendation:
76:             "Reduce saturated and trans fats; focus on healthy fats.",
77:         normalRecommendation: "Maintain balanced fat intake.",
78:         lowRecommendation: "Ensure adequate healthy fat intake.",
79:     },
80:     {
81:         _uuid: uuidv4(),
82:         id: "protein_requirement",
83:         label: "Protein Requirement",
84:         category: "Macronutrients",
85:         min: 1,
86:         max: 10,
87:         highRecommendation: "Increased protein intake recommended.",
88:         normalRecommendation: "Ensure adequate protein intake.",
89:         lowRecommendation:
90:             "Consider increasing protein intake for muscle maintenance.",
91:     },
92:     {
93:         _uuid: uuidv4(),
94:         id: "meal_frequency",
95:         label: "Meal Frequency",
96:         category: "Meal Pattern",
97:         min: 1,
98:         max: 10,
99:         highRecommendation: "Consider smaller, more frequent meals.",
100:        normalRecommendation: "Maintain regular meal frequency.",
101:        lowRecommendation: "Consider fewer, larger meals.",
102:     },
103:     {
104:         _uuid: uuidv4(),
105:         id: "alcohol_sensitivity",
106:         label: "Alcohol Sensitivity",
107:         category: "Food Sensitivities",
108:         min: 1,
109:         max: 10,
110:         highRecommendation:

```



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111:         "Limit alcohol consumption due to genetic sensitivity.",
112:         normalRecommendation: "Moderate alcohol intake is fine.",
113:         lowRecommendation: "Normal alcohol metabolism.",
114:     },
115:     {
116:         _uuid: uuidv4(),
117:         id: "caffeine_sensitivity",
118:         label: "Caffeine Sensitivity",
119:         category: "Food Sensitivities",
120:         min: 1,
121:         max: 10,
122:         highRecommendation: "Limit caffeine intake due to slow metabolism.",
123:         normalRecommendation:
124:             "Normal caffeine metabolism; moderate intake is fine.",
125:         lowRecommendation:
126:             "Fast caffeine metabolism; higher intake may be tolerated.",
127:     },
128: ],
129: // NEW: Default patient-specific results for dynamic diet fields
130: patientDietAnalysisResults: [
131:     {
132:         fieldId: "carbohydrate_sensitivity",
133:         score: 5,
134:         level: "NORMAL",
135:         recommendation: "Maintain balanced carbohydrate intake.",
136:     },
137:     {
138:         fieldId: "fat_sensitivity",
139:         score: 7,
140:         level: "HIGH",
141:         recommendation: "Reduce saturated and trans fats; focus on healthy fats.",
142:     },
143:     {
144:         fieldId: "protein_requirement",
145:         score: 3,
146:         level: "LOW",
147:         recommendation: "Ensure adequate protein intake for muscle maintenance.",
148:     },
149:     {
150:         fieldId: "meal_frequency",
151:         score: 6,
152:         level: "FREQUENT",
153:         recommendation: "Consider smaller, more frequent meals.",
154:     },
155:     {
156:         fieldId: "alcohol_sensitivity",
157:         score: 9,
158:         level: "HIGH",
159:         recommendation: "Limit alcohol consumption due to genetic sensitivity.",
160:     },
161:     {
162:         fieldId: "caffeine_sensitivity",
163:         score: 2,
164:         level: "LOW",
165:         recommendation: "Normal caffeine metabolism; moderate intake is fine.",
166:     },
167: ],
168: nutritionData: {
169:     vitamins: {
170:         vitaminA: {
171:             score: 3,
172:             healthImpact: "Skin & Vision",
173:             intakeLevel: "ENHANCED INTAKE",
174:             source: "DIET",
175:         },
176:         vitaminB12: {
177:             score: 6,
178:             healthImpact: "Nervous System & Bones",
179:             intakeLevel: "ENHANCED INTAKE (METHYLCOBALAMIN)",
180:             source: "DIET",
181:         },
182:         vitaminB2: {
183:             score: 3,

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184:         healthImpact: "Energy Metabolism",
185:         intakeLevel: "ENHANCED INTAKE",
186:         source: "DIET",
187:     },
188:     vitaminB6: {
189:         score: 6,
190:         healthImpact: "Tissue growth repair",
191:         intakeLevel: "ENHANCED INTAKE",
192:         source: "DIET",
193:     },
194:     vitaminB9: {
195:         score: 3,
196:         healthImpact: "RBC development & Heart health",
197:         intakeLevel: "ENHANCED INTAKE (L METHYLFOLATE)",
198:         source: "DIET",
199:     },
200:     vitaminC: {
201:         score: 3,
202:         healthImpact: "Skin & Immunity",
203:         intakeLevel: "ENHANCED INTAKE",
204:         source: "DIET",
205:     },
206:     vitaminD: {
207:         score: 6,
208:         healthImpact: "Bones & Diabetes",
209:         intakeLevel: "ENHANCED INTAKE & SUN EXPOSURE",
210:         source: "DIET & SUN EXPOSURE",
211:     },
212:     vitaminE: {
213:         score: 5,
214:         healthImpact: "Skin & Immune system",
215:         intakeLevel: "ENHANCED INTAKE",
216:         source: "DIET",
217:     },
218: },
219: fattyAcids: {
220:     omegaFattyAcids: {
221:         score: 5,
222:         healthImpact: "Cardiac health & Triglycerides",
223:         intakeLevel: "ENHANCED INTAKE (VEG SOURCES)",
224:         source: "ENHANCED INTAKE (VEG/FISH OIL) & DIET",
225:     },
226: },
227: elements: {
228:     calcium: {
229:         score: 3,
230:         healthImpact: "Bone health & Nerve function",
231:         intakeLevel: "ENHANCED INTAKE",
232:         source: "DIET",
233:     },
234:     iodine: {
235:         score: 3,
236:         healthImpact: "Detoxification & Thyroid hormones",
237:         intakeLevel: "ENHANCED INTAKE",
238:         source: "DIET",
239:     },
240:     iron: {
241:         score: 3,
242:         healthImpact: "Haemoglobin & Energy",
243:         intakeLevel: "RESTRICTED INTAKE",
244:         source: "DIET",
245:     },
246:     magnesium: {
247:         score: 3,
248:         healthImpact: "Heart health & Immunity",
249:         intakeLevel: "ENHANCED INTAKE",
250:         source: "DIET",
251:     },
252:     phosphorus: {
253:         score: 3,
254:         healthImpact: "Bone health & Kidney function",
255:         intakeLevel: "ENHANCED INTAKE",
256:         source: "DIET",
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257:     },
258:     selenium: {
259:         score: 3,
260:         healthImpact: "Cognitive & Muscle function",
261:         intakeLevel: "ENHANCED INTAKE",
262:         source: "DIET",
263:     },
264:     zinc: {
265:         score: 3,
266:         healthImpact: "Fertility & Skin",
267:         intakeLevel: "ENHANCED INTAKE",
268:         source: "DIET",
269:     },
270: },
271: complexNutrients: {
272:     antiInflammatory: {
273:         score: 5,
274:         healthImpact: "Pain control & Organ health",
275:         intakeLevel: "ENHANCED INTAKE",
276:         source: "DIET",
277:     },
278:     antioxidants: {
279:         score: 6,
280:         healthImpact: "Skin & Immune system",
281:         intakeLevel: "ENHANCED INTAKE",
282:         source: "DIET",
283:     },
284: },
285: },
286: sportsAndFitness: {
287:     exerciseType: {
288:         endurancePotential: {
289:             level: "High Endurance Potential",
290:             description:
291:                 "Excellent genetic predisposition for endurance activities",
292:         },
293:         powerPotential: {
294:             level: "Average Power Potential",
295:             description: "Moderate power output capacity",
296:         },
297:         strengthProfile: {
298:             level: "High Strength Profile",
299:             description: "Good potential for strength training",
300:         },
301:         exerciseTime: {
302:             level: "Evening time is more beneficial than morning",
303:             description: "MORNING Vs. EVENING",
304:         },
305:     },
306:     performance: {
307:         enduranceCapacity: {
308:             level: "High Endurance Potential",
309:             description: "Superior aerobic capacity",
310:         },
311:         fatigueResistance: {
312:             level: "Normal fatigue resistance. Average endurance capacity",
313:             description: "Average endurance capacity",
314:         },
315:         bloodFlow: {
316:             level: "Reduced vascular efficiency, affects endurance sports.",
317:             description: "Affects endurance sports",
318:         },
319:         oxygenEfficiency: {
320:             level: "Normal VO2 Max. Need practice to excel in endurance sports",
321:             description: "Need practice to excel",
322:         },
323:         waterLoss: {
324:             level:
325:                 "Increased water and electrolyte loss tendency. Focus on Hydration and electrolyte management dur
326:             description: "Focus on hydration",
327:         },
328:         lactateClearing: {
329:             level: "High lactate clearance. Beneficial for Endurance sports.",

```

```

330:         description: "Beneficial for endurance",
331:     },
332:     recoveryEfficiency: {
333:         level:
334:             "High recovery efficiency. Enhanced sports potential & reduced injury risk",
335:         description: "Enhanced sports potential",
336:     },
337:     bodyComposition: {
338:         level: "Low fat accumulation. Increased muscle tendency.",
339:         description: "Increased muscle tendency",
340:     },
341:     injuryRisk: {
342:         level:
343:             "High injury tendency. Thorough injury management steps to be taken.",
344:         description: "Thorough injury management needed",
345:     },
346:     achillesTendonInjury: {
347:         level: "Low injury tendency. Ensure adequate warmup before exercises",
348:         description: "Ensure adequate warmup",
349:     },
350:     ligamentInjury: {
351:         level:
352:             "Low ACL injury tendency. Ensure adequate warmup before exercises",
353:         description: "Ensure adequate warmup",
354:     },
355:     rupture: {
356:         level: "Low rupture tendency. Ensure adequate warmup before exercises",
357:         description: "Ensure adequate warmup",
358:     },
359:     muscleCramps: {
360:         level:
361:             "Low risk of muscle cramps. Ensure adequate warmup before exercises",
362:         description: "Ensure adequate warmup",
363:     },
364: },
365: },
366: lifestyleConditions: {
367:     heartVascularHealth: {
368:         hypertension: { status: "strength" },
369:         leftVentricularHypertrophy: { status: "strength" },
370:         atherosclerosis: { status: "improvement" },
371:         familialHypercholesterolemia: { status: "strength" },
372:         cardiomyopathy: { status: "strength" },
373:         cholesterolImbalance: { status: "improvement" },
374:         stroke: { status: "improvement" },
375:     },
376:     diabetes: {
377:         obesity: { status: "improvement" },
378:         diabetesType2: { status: "improvement" },
379:     },
380:     liverHealth: {
381:         nafld: { status: "improvement" },
382:         liverCirrhosis: { status: "strength" },
383:     },
384:     boneHealth: {
385:         osteoporosis: { status: "improvement" },
386:         osteoarthritis: { status: "improvement" },
387:     },
388:     gutHealth: {
389:         irritableBowelSyndrome: { status: "improvement" },
390:         celiacDisease: { status: "strength" },
391:     },
392:     hormoneSystem: {
393:         hypothyroidism: { status: "improvement" },
394:     },
395: },
396: metabolicCore: {
397:     methylation: {
398:         genes: ["MTHFR"],
399:         genotype: "C/T",
400:         impact: "Reduced folate metabolism",
401:         advice: "Consider L-methylfolate supplementation.",
402:     },

```

```

403:     inflammation: {
404:         genes: ["CRP"],
405:         genotype: "G/A",
406:         impact: "Increased inflammatory response",
407:         advice: "Incorporate anti-inflammatory foods.",
408:     },
409:     oxidativeStress: {
410:         genes: ["SOD2"],
411:         genotype: "T/C",
412:         impact: "Reduced antioxidant defense",
413:         advice: "Increase antioxidant-rich foods and supplements.",
414:     },
415:     detoxification: {
416:         genes: ["GSTP1"],
417:         genotype: "A/G",
418:         impact: "Impaired detoxification capacity",
419:         advice: "Support liver health with cruciferous vegetables.",
420:     },
421:     vitaminDmetabolism: {
422:         genes: ["VDR"],
423:         genotype: "C/C",
424:         impact: "Reduced Vitamin D absorption",
425:         advice: "Ensure adequate Vitamin D intake and sun exposure.",
426:     },
427:     lipidMetabolism: {
428:         genes: ["APOE"],
429:         genotype: "E3/E4",
430:         impact: "Increased LDL cholesterol tendency",
431:         advice: "Monitor lipid levels and follow a heart-healthy diet.",
432:     },
433:     insulinResistance: {
434:         genes: ["TCF7L2"],
435:         genotype: "T/T",
436:         impact: "Higher risk of insulin resistance",
437:         advice: "Focus on low glycemic index foods and regular exercise.",
438:     },
439:     circadianRhythm: {
440:         genes: ["CLOCK"],
441:         genotype: "C/G",
442:         impact: "Altered sleep-wake cycle",
443:         advice:
444:             "Maintain consistent sleep schedule and optimize sleep environment.",
445:     },
446:     exerciseResponsiveness: {
447:         genes: ["ACTN3"],
448:         genotype: "R/X",
449:         impact: "Enhanced power and strength response to training",
450:         advice: "Incorporate strength and power training into routine.",
451:     },
452:     snackingTendency: {
453:         genes: ["FTO"],
454:         genotype: "A/A",
455:         impact: "Increased tendency for snacking and higher BMI",
456:         advice: "Practice mindful eating and portion control.",
457:     },
458:     oestrogenElimination: {
459:         genes: ["COMT"],
460:         genotype: "G/A",
461:         impact: "Slower estrogen elimination",
462:         advice: "Support liver detoxification pathways.",
463:     },
464:     powerVsEndurance: {
465:         genes: ["ACE"],
466:         genotype: "I/D",
467:         impact: "Balanced power and endurance potential",
468:         advice: "Vary training to include both power and endurance exercises.",
469:     },
470:     injuryRecovery: {
471:         genes: ["COL1A1"],
472:         genotype: "G/T",
473:         impact: "Slower collagen repair, increased injury risk",
474:         advice: "Focus on adequate protein and Vitamin C for tissue repair.",
475:     },

```

```

476:     fluidLossTendency: {
477:       genes: ["AGT"],
478:       genotype: "T/C",
479:       impact: "Increased fluid and electrolyte loss during exercise",
480:       advice: "Ensure proper hydration and electrolyte replenishment.",
481:     },
482:     vo2Max: {
483:       genes: ["PPARGC1A"],
484:       genotype: "G/G",
485:       impact: "High VO2 Max potential",
486:       advice: "Optimize cardiovascular training for peak performance.",
487:     },
488:   },
489:   digestiveHealth: {
490:     gutHealth: {
491:       level: "NORMAL GUT HEALTH",
492:       description: "Good overall digestive function",
493:     },
494:     glutenIntolerance: {
495:       level: "LOW INTOLERANCE",
496:       description: "CONDITIONAL GLUTEN ELIMINATION NEEDED",
497:     },
498:     celiacDiseaseTendency: {
499:       level: "LOW TENDENCY",
500:       description: "Low genetic risk for celiac disease",
501:     },
502:     impactOnBonesJoints: {
503:       level: "NO IMPACT ON BONE HEALTH",
504:       description: "Digestive health does not affect bone health",
505:     },
506:     lactoseIntolerance: {
507:       level: "HIGH INTOLERANCE",
508:       description: "LACTOSE ELIMINATION NEEDED",
509:     },
510:     probioticsRequirement: {
511:       level: "PROBIOTICS NEEDED",
512:       description: "FOOD & SUPPLEMENTS",
513:     },
514:   },
515:   genesAndAddiction: {
516:     alcoholAddiction: {
517:       tendency: "LOW",
518:       description: "Low genetic predisposition to alcohol dependency",
519:     },
520:     smokingAddiction: {
521:       tendency: "NORMAL",
522:       description: "Average nicotine addiction susceptibility",
523:     },
524:     snackingHabits: {
525:       tendency: "HIGH",
526:       description: "Genetic tendency toward frequent snacking",
527:     },
528:     altruism: {
529:       tendency: "HIGH",
530:       description: "Strong genetic predisposition toward helping others",
531:     },
532:   },
533:   sleepAndRest: {
534:     sleepCycle: {
535:       impact: "DELAYED SLEEP CYCLE",
536:       intervention: "EXERCISE IN THE EVENING AVOID CARBS DURING BREAKFAST",
537:     },
538:     sleepApnea: {
539:       impact: "INCREASED CHANCES OF SLEEP APNEA",
540:       intervention: "EXERCISE REGULARLY SEEK MEDICAL ADVICE IF ISSUE PERSISTS",
541:     },
542:     sleepDepth: {
543:       impact: "LOW SLEEP DEPTH",
544:       intervention: "CONSUME CURD RICE IN DINNER FOR BETTER SLEEP",
545:     },
546:     stressSensitivity: {
547:       impact: "LOW STRESS SENSITIVITY",
548:       intervention: "EXERCISE REGULARLY FOR A BETTER SLEEP CYCLE",

```

```

549:     },
550:   },
551:   allergiesAndSensitivity: {
552:     dustAllergy: { tendency: "NORMAL" },
553:     pesticideSensitivity: { tendency: "HIGH" },
554:     smokeSensitivity: { tendency: "HIGH" },
555:     automobileSmokeSensitivity: { tendency: "HIGH" },
556:     generalAdvice:
557:       "THE BEST WAY TO REDUCE ALLERGIES IS TO STAY AWAY FROM THE SOURCE, NO ROCKET SCIENCE HOWEVER THE FOLLOWING",
558:   },
559:   geneTestResults: [
560:     {
561:       geneName: "ALDH2 Aldehyde dehydrogenase 2",
562:       variation: "G>A",
563:       result: "GG",
564:     },
565:     {
566:       geneName: "MTHFR Methylene tetrahydrofolate reductase",
567:       variation: "C>T",
568:       result: "CT",
569:     },
570:   ],
571:   metabolicSummary: {
572:     strengths: ["Efficient detoxification", "Normal lipid metabolism"],
573:     weaknesses: [
574:       "Increased oxidative stress",
575:       "Higher risk of insulin resistance",
576:     ],
577:   },
578:   preventiveHealth: {
579:     diagnosticTests: {
580:       halfYearly: ["PLASMA SUGAR (FASTING & PP)", "VITAMIN D"],
581:       yearly: [
582:         "HbA1c",
583:         "LIPID PROFILE",
584:         "SERUM HOMOCYSTEINE",
585:         "VITAMIN B12",
586:         "LIVER PROFILE",
587:       ],
588:     },
589:     nutritionalSupplements: [
590:       { supplement: "VITAMIN D", needed: true },
591:       { supplement: "METHYL FOLATE + METHYL COBALAMINE + B6", needed: true },
592:       { supplement: "OMEGA FATTY ACIDS (FISH OIL)", needed: true },
593:       { supplement: "FOLIC ACID + COBALAMINE + B6", needed: true },
594:       { supplement: "OMEGA FATTY ACIDS (VEG)", needed: true },
595:       { supplement: "VITAMIN E", needed: true },
596:       { supplement: "PROBIOTICS", needed: true },
597:     ],
598:   },
599:   familyGeneticImpact: [
600:     {
601:       gene: "MnSOD",
602:       normalAlleles: "AA",
603:       yourResult: "AG",
604:       healthImpact:
605:         "INCREASED TENDENCY OF OXIDATIVE STRESS NEED OF ANTI-OXIDANT SUPPLEMENTS",
606:     },
607:     {
608:       gene: "FTO",
609:       normalAlleles: "TT",
610:       yourResult: "AT",
611:       healthImpact:
612:         "INCREASED TENDENCY OF INSULIN RESISTANCE WEIGHT AND CALORIE MANAGEMENT IMPORTANT TO MANAGE AND REDUCE",
613:     },
614:   ],
615:   categories: [
616:     {
617:       id: "category_1",
618:       category: "Lipid Metabolism",
619:       imageUrl: "/table/content.png",
620:       description:
621:         "This category includes genes related to lipid metabolism and cardiovascular risk.",

```

```

622:     parameters: [
623:         "APOA11yy",
624:         "APOB",
625:         "LDLR",
626:         "CETP",
627:         "LIPC",
628:         "LPL",
629:         "SCARB1",
630:         "ABCA1",
631:         "PCSK9",
632:         "ANGPTL3",
633:         "ANGPTL4",
634:         "PLTP",
635:         "APOC3",
636:         "APOE",
637:         "SREBF2",
638:         "HMGCR",
639:         "LCAT",
640:         "CYP7A1",
641:         "PPARA",
642:         "PPARG",
643:         "NR1H3",
644:     ],
645:     isActive: true,
646:     order: 1,
647: },
648: ],
649: geneticParameters: [],
650: metadata: {
651:     lastUpdated: "2025-07-20T12:00:00.000Z",
652:     version: "1.0.0",
653:     totalCategories: 1,
654:     totalParameters: 21,
655: },
656:
657: summaries: {
658:     nutrigenomicsSummary:
659:         "Based on the overall nutrigenomics analysis, provide expert summary for personalized diet and lifestyle",
660:     exerciseGenomicsSummary:
661:         "Based on the overall genomics analysis, provide expert summary for personalized exercise plan...",
662: },
663: };
664:
665: export async function GET() {
666:     try {
667:         // Ensure the data directory exists
668:         const dataDir = path.dirname(dataFilePath);
669:         await fs.mkdir(dataDir, { recursive: true });
670:
671:         let data: ComprehensiveReportData;
672:
673:         try {
674:             const fileContent = await fs.readFile(dataFilePath, "utf-8");
675:             data = JSON.parse(fileContent);
676:         } catch (readError: any) {
677:             if (readError.code === "ENOENT") {
678:                 // File does not exist, initialize with default data
679:                 data = defaultReportData;
680:                 await fs.writeFile(
681:                     dataFilePath,
682:                     JSON.stringify(data, null, 2),
683:                     "utf-8"
684:                 );
685:             } else {
686:                 // Other read errors
687:                 console.error("Error reading report data file:", readError);
688:                 return NextResponse.json(
689:                     { error: "Failed to read report data" },
690:                     { status: 500 }
691:                 );
692:             }
693:         }
694:     }

```



```

695:     return NextResponse.json(data);
696:   } catch (error) {
697:     console.error("Error in GET /api/report-data:", error);
698:     return NextResponse.json(
699:       { error: "Internal Server Error" },
700:       { status: 500 }
701:     );
702:   }
703: }
704:
705: export async function POST(request: Request) {
706:   try {
707:     const data: ComprehensiveReportData = await request.json();
708:
709:     // Basic validation (can be expanded)
710:     if (!data || !data.patientInfo || !data.content) {
711:       return NextResponse.json(
712:         { error: "Invalid report data provided" },
713:         { status: 400 }
714:       );
715:     }
716:
717:     // Ensure the data directory exists
718:     const dataDir = path.dirname(dataFilePath);
719:     await fs.mkdir(dataDir, { recursive: true });
720:
721:     await fs.writeFile(dataFilePath, JSON.stringify(data, null, 2), "utf-8");
722:     return NextResponse.json({ message: "Report data saved successfully" });
723:   } catch (error) {
724:     console.error("Error in POST /api/report-data:", error);
725:     return NextResponse.json(
726:       { error: "Internal Server Error" },
727:       { status: 500 }
728:     );
729:   }
730: }

```

■ File: app\api\upload-image\route.ts

```

=====
1: import { writeFile } from "fs/promises";
2: import path from "path";
3: import { NextRequest, NextResponse } from "next/server";
4:
5: export async function POST(req: NextRequest) {
6:   const formData = await req.formData();
7:   const file = formData.get("file") as File;
8:
9:   if (!file) {
10:    return NextResponse.json(
11:      { success: false, error: "No file uploaded" },
12:      { status: 400 }
13:    );
14:   }
15:
16:   const bytes = await file.arrayBuffer();
17:   const buffer = Buffer.from(bytes);
18:
19:   const fileName = `${Date.now()}-${file.name}`;
20:   const filePath = path.join(process.cwd(), "public", "table", fileName);
21:
22:   try {
23:     await writeFile(filePath, buffer);
24:     const publicUrl = `/table/${fileName}`;
25:     return NextResponse.json({ success: true, url: publicUrl });
26:   } catch (error) {
27:     return NextResponse.json(
28:       { success: false, error: "Failed to save file" },
29:       { status: 500 }
30:     );
31:   }
32: }

```

■ File: app\layout.tsx

```
=====
1: import type React from "react"
2: import type { Metadata } from "next"
3: import { Inter } from "next/font/google"
4: import "../globals.css"
5: import { ThemeProvider } from "@components/theme-provider"
6: import { Toaster } from "@components/ui/toaster"
7:
8: const inter = Inter({ subsets: ["latin"] })
9:
10: export const metadata: Metadata = {
11:   title: "Nutrigenomics Report App",
12:   description: "Comprehensive Nutrigenomics Test Report Application",
13:   generator: 'v0.dev'
14: }
15:
16: export default function RootLayout({
17:   children,
18: }: Readonly<{
19:   children: React.ReactNode
20: }>) {
21:   return (
22:     <html lang="en" suppressHydrationWarning>
23:       <body className={inter.className}>
24:         <ThemeProvider attribute="class" defaultTheme="system" enableSystem disableTransitionOnChange>
25:           {children}
26:         <Toaster />
27:       </ThemeProvider>
28:     </body>
29:   </html>
30: )
31: }
```

■ File: app\page.tsx

```
=====
1: import { CardDescription } from "@components/ui/card";
2: import Link from "next/link";
3: import { Button } from "@components/ui/button";
4: import { Card, CardContent, CardHeader, CardTitle } from "@components/ui/card";
5: import {
6:   Settings,
7:   FileText,
8:   Eye,
9:   Download,
10:   Database,
11:   Dna,
12:   Activity,
13:   Heart,
14:   Brain,
15:   Utensils,
16:   Zap,
17:   AlertCircle,
18:   Users,
19: } from "lucide-react";
20:
21: export default function HomePage() {
22:   return (
23:     <div className="flex flex-col items-center w-full justify-center min-h-screen bg-gradient-to-br from-gray-50 to-gray-100">
24:       <div className="grid md:grid-cols-4 gap-6 mb-12 mt-12">
25:         <Link href="/admin">
26:           <Card className="hover:shadow-xl transition-all duration-300 border-0 bg-gradient-to-br from-blue-500 to-blue-600 text-white">
27:             <CardContent className="p-6 text-center">
28:               <Settings className="h-12 w-12 mx-auto mb-4" />
29:               <h3 className="font-bold text-lg">Admin Panel</h3>
30:               <p className="text-blue-100 text-sm">Manage all data</p>
31:             </CardContent>
32:           </Card>
33:         </Link>
34:       </div>
35:     </div>
```

```

36:         <Link href="/report/preview">
37:             <Card className="hover:shadow-xl transition-all duration-300 border-0 bg-gradient-to-br from-green-500 to-green-600 text-white rounded-t-lg">
38:                 <CardContent className="p-6 text-center">
39:                     <Eye className="h-12 w-12 mx-auto mb-4" />
40:                     <h3 className="font-bold text-lg">Preview Report</h3>
41:                     <p className="text-green-100 text-sm">View live report</p>
42:                 </CardContent>
43:             </Card>
44:         </Link>
45:
46:         <Link href="/report/pdf">
47:             <Card className="hover:shadow-xl transition-all duration-300 border-0 bg-gradient-to-br from-purple-500 to-purple-600 text-white rounded-t-lg">
48:                 <CardContent className="p-6 text-center">
49:                     <Download className="h-12 w-12 mx-auto mb-4" />
50:                     <h3 className="font-bold text-lg">Generate PDF</h3>
51:                     <p className="text-purple-100 text-sm">Export to PDF</p>
52:                 </CardContent>
53:             </Card>
54:         </Link>
55:
56:         <Card className="hover:shadow-xl transition-all duration-300 border-0 bg-gradient-to-br from-orange-500 to-orange-600 text-white rounded-t-lg">
57:             <CardContent className="p-6 text-center">
58:                 <Database className="h-12 w-12 mx-auto mb-4" />
59:                 <h3 className="font-bold text-lg">Data Management</h3>
60:                 <p className="text-orange-100 text-sm">CRUD operations</p>
61:             </CardContent>
62:         </Card>
63:     </div>
64:
65:     { /* Report Sections */ }
66:     <Card className="shadow-lg border-0 bg-white mb-12">
67:         <CardHeader className="bg-gradient-to-r from-indigo-500 to-purple-600 text-white rounded-t-lg">
68:             <CardTitle className="text-2xl">
69:                 ? Report Sections Included
70:             </CardTitle>
71:             <CardDescription className="text-indigo-100">
72:                 All sections from the original PDF with complete data management
73:             </CardDescription>
74:         </CardHeader>
75:         <CardContent className="p-8">
76:             <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-6">
77:                 <div className="flex items-center gap-3 p-4 bg-red-50 rounded-lg">
78:                     <Utensils className="h-8 w-8 text-red-600" />
79:                     <div>
80:                         <h4 className="font-semibold text-red-800">Diet Analysis</h4>
81:                         <p className="text-sm text-red-600">
82:                             Macronutrients, sensitivities, meal patterns
83:                         </p>
84:                     </div>
85:                 </div>
86:
87:                 <div className="flex items-center gap-3 p-4 bg-blue-50 rounded-lg">
88:                     <Activity className="h-8 w-8 text-blue-600" />
89:                     <div>
90:                         <h4 className="font-semibold text-blue-800">Nutrition</h4>
91:                         <p className="text-sm text-blue-600">
92:                             Vitamins, minerals, supplements
93:                         </p>
94:                     </div>
95:                 </div>
96:
97:                 <div className="flex items-center gap-3 p-4 bg-green-50 rounded-lg">
98:                     <Zap className="h-8 w-8 text-green-600" />
99:                     <div>
100:                        <h4 className="font-semibold text-green-800">
101:                            Sports & Fitness
102:                        </h4>
103:                        <p className="text-sm text-green-600">
104:                            Exercise types, performance factors
105:                        </p>
106:                    </div>
107:                </div>
108:            </div>

```

```

109:     <div className="flex items-center gap-3 p-4 bg-yellow-50 rounded-lg">
110:         <Heart className="h-8 w-8 text-yellow-600" />
111:         <div>
112:             <h4 className="font-semibold text-yellow-800">
113:                 Lifestyle Conditions
114:             </h4>
115:             <p className="text-sm text-yellow-600">
116:                 Health risks and strengths
117:             </p>
118:         </div>
119:     </div>
120:
121:     <div className="flex items-center gap-3 p-4 bg-purple-50 rounded-lg">
122:         <Dna className="h-8 w-8 text-purple-600" />
123:         <div>
124:             <h4 className="font-semibold text-purple-800">
125:                 Metabolic Core
126:             </h4>
127:             <p className="text-sm text-purple-600">
128:                 Gene analysis and impacts
129:             </p>
130:         </div>
131:     </div>
132:
133:     <div className="flex items-center gap-3 p-4 bg-indigo-50 rounded-lg">
134:         <Brain className="h-8 w-8 text-indigo-600" />
135:         <div>
136:             <h4 className="font-semibold text-indigo-800">
137:                 Digestive Health
138:             </h4>
139:             <p className="text-sm text-indigo-600">
140:                 Gut health, intolerances
141:             </p>
142:         </div>
143:     </div>
144:
145:     <div className="flex items-center gap-3 p-4 bg-pink-50 rounded-lg">
146:         <Dna className="h-8 w-8 text-pink-600" />
147:         <div>
148:             <h4 className="font-semibold text-pink-800">
149:                 Genes & Addiction
150:             </h4>
151:             <p className="text-sm text-pink-600">Tendencies, advice</p>
152:         </div>
153:     </div>
154:
155:     <div className="flex items-center gap-3 p-4 bg-teal-50 rounded-lg">
156:         <Brain className="h-8 w-8 text-teal-600" />
157:         <div>
158:             <h4 className="font-semibold text-teal-800">Sleep & Rest</h4>
159:             <p className="text-sm text-teal-600">Sleep patterns, quality</p>
160:         </div>
161:     </div>
162:
163:     <div className="flex items-center gap-3 p-4 bg-cyan-50 rounded-lg">
164:         <AlertCircle className="h-8 w-8 text-cyan-600" />
165:         <div>
166:             <h4 className="font-semibold text-cyan-800">
167:                 Allergies & Sensitivity
168:             </h4>
169:             <p className="text-sm text-cyan-600">
170:                 Environmental sensitivities
171:             </p>
172:         </div>
173:     </div>
174:
175:     <div className="flex items-center gap-3 p-4 bg-lime-50 rounded-lg">
176:         <Heart className="h-8 w-8 text-lime-600" />
177:         <div>
178:             <h4 className="font-semibold text-lime-800">
179:                 Preventive Health
180:             </h4>
181:             <p className="text-sm text-lime-600">

```

```

182:         Diagnostic tests, supplements
183:     </p>
184: </div>
185: </div>
186:
187: <div className="flex items-center gap-3 p-4 bg-amber-50 rounded-lg">
188:   <Users className="h-8 w-8 text-amber-600" />
189:   <div>
190:     <h4 className="font-semibold text-amber-800">
191:       Family Genetic Impact
192:     </h4>
193:     <p className="text-sm text-amber-600">
194:       Inherited traits, family recommendations
195:     </p>
196:   </div>
197: </div>
198: </div>
199: </CardContent>
200: </Card>
201: </div>
202: );
203: }

```

■ File: app/report/[id]/page.tsx

```

=====
1: import { notFound } from "next/navigation";
2: import ComprehensiveReportViewer from "@/components/comprehensive-report-viewer";
3: import type { ComprehensiveReportData } from "@/types/report-types";
4:
5: interface ReportPageProps {
6:   params: {
7:     id: string;
8:   };
9: }
10:
11: async function getReportData(
12:   id: string
13: ): Promise<ComprehensiveReportData | null> {
14:   try {
15:     // In a real application, you would fetch data based on the 'id'
16:     // For this example, we fetch the single stored report data
17:     const response = await fetch(
18:       `${
19:         process.env.NEXT_PUBLIC_APP_URL || "http://localhost:3000"
20:       }/api/report-data`,
21:       { cache: "no-store" }
22:     );
23:
24:     if (!response.ok) {
25:       console.error(
26:         `Failed to fetch report data: ${response.status} ${response.statusText}`
27:       );
28:       return null;
29:     }
30:
31:     const data = await response.json();
32:     // If you had multiple reports, you'd filter by ID here
33:     return data as ComprehensiveReportData;
34:   } catch (error) {
35:     console.error("Error fetching report data:", error);
36:     return null;
37:   }
38: }
39:
40: export default async function ReportPage({ params }: ReportPageProps) {
41:   const reportData = await getReportData(params.id);
42:
43:   if (!reportData) {
44:     notFound();
45:   }
46: }

```

```

47:   return (
48:     <div className="min-h-screen bg-gray-100 print:bg-white">
49:       <ComprehensiveReportViewer reportData={reportData} />
50:     </div>
51:   );
52: }

```

■ File: app\report\pdf\page.tsx

```

1: import ComprehensiveReportViewer from "@/components/comprehensive-report-viewer";
2: import type { ComprehensiveReportData } from "@/types/report-types";
3:
4: async function getReportData(): Promise<ComprehensiveReportData | null> {
5:   try {
6:     const response = await fetch(
7:       `${
8:         process.env.NEXT_PUBLIC_APP_URL || "http://localhost:3000"
9:       }/api/report-data`,
10:      { cache: "no-store" }
11:    );
12:
13:    if (!response.ok) {
14:      console.error(
15:        `Failed to fetch report data: ${response.status} ${response.statusText}`
16:      );
17:      return null;
18:    }
19:
20:    const data = await response.json();
21:    return data as ComprehensiveReportData;
22:  } catch (error) {
23:    console.error("Error fetching report data:", error);
24:    return null;
25:  }
26: }
27:
28: export default async function ReportPdfPage() {
29:   const reportData = await getReportData();
30:
31:   if (!reportData) {
32:     return (
33:       <div className="text-center py-10 text-red-500">
34:         Failed to load report data for PDF generation.
35:       </div>
36:     );
37:   }
38:
39:   return (
40:     <div className="min-h-screen bg-white print:bg-white">
41:       <ComprehensiveReportViewer reportData={reportData} />
42:     </div>
43:   );
44: }

```

■ File: app\report\preview\page.tsx

```

1: import ComprehensiveReportViewer from "@/components/comprehensive-report-viewer";
2: import type { ComprehensiveReportData } from "@/types/report-types";
3:
4: async function getReportData(): Promise<ComprehensiveReportData | null> {
5:   try {
6:     const response = await fetch(
7:       `${
8:         process.env.NEXT_PUBLIC_APP_URL || "http://localhost:3000"
9:       }/api/report-data`,
10:      { cache: "no-store" }
11:    );
12:
13:    if (!response.ok) {

```

```

14:         console.error(
15:             `Failed to fetch report data: ${response.status} ${response.statusText}`
16:         );
17:         return null;
18:     }
19:
20:     const data = await response.json();
21:     return data as ComprehensiveReportData;
22: } catch (error) {
23:     console.error("Error fetching report data:", error);
24:     return null;
25: }
26: }
27:
28: export default async function ReportPreviewPage() {
29:     const reportData = await getReportData();
30:
31:     if (!reportData) {
32:         return (
33:             <div className="text-center py-10 text-red-500">
34:                 Failed to load report data for preview.
35:             </div>
36:         );
37:     }
38:
39:     return (
40:         <div className="min-h-screen bg-gray-100 print:bg-white">
41:             <ComprehensiveReportViewer reportData={reportData} />
42:         </div>
43:     );
44: }

```

■ File: components\admin\allergies-sensitivity-admin.tsx

```

=====
1: "use client"
2:
3: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@components/ui/card"
4: import { Input } from "@components/ui/input"
5: import { Label } from "@components/ui/label"
6: import { Textarea } from "@components/ui/textarea"
7: import { Button } from "@components/ui/button"
8: import { Save, RotateCcw } from "lucide-react"
9: import type { AllergiesAndSensitivity, AllergyData } from "@types/report-types"
10:
11: interface AllergiesSensitivityAdminProps {
12:     allergiesAndSensitivity: AllergiesAndSensitivity
13:     updateAllergiesAndSensitivity: (field: keyof AllergiesAndSensitivity, data: Partial<AllergyData> | string
14:     onSave: () => void
15:     onReset: () => void
16: }
17:
18: export default function AllergiesSensitivityAdmin({
19:     allergiesAndSensitivity,
20:     updateAllergiesAndSensitivity,
21:     onSave,
22:     onReset,
23: }: AllergiesSensitivityAdminProps) {
24:     const renderAllergyField = (
25:         field: Exclude<keyof AllergiesAndSensitivity, "generalAdvice">,
26:         data: AllergyData,
27:         title: string,
28:     ) => (
29:         <Card key={field} className="border-2 border-orange-100 bg-orange-50/30">
30:             <CardHeader className="pb-3">
31:                 <CardTitle className="text-lg text-orange-800">{title}</CardTitle>
32:             </CardHeader>
33:             <CardContent className="space-y-4">
34:                 <div className="space-y-2">
35:                     <Label className="text-sm font-medium">Tendency</Label>
36:                     <Input
37:                         value={data.tendency}

```

```

38:         onChange={(e) => updateAllergiesAndSensitivity(field, { tendency: e.target.value })}
39:         placeholder="e.g., NORMAL, HIGH"
40:         className="border-2 focus:border-orange-500"
41:     />
42: </div>
43: </CardContent>
44: </Card>
45: )
46:
47: return (
48:     <Card className="shadow-lg border-0 bg-white">
49:         <CardHeader className="bg-gradient-to-r from-orange-500 to-red-600 text-white rounded-t-lg">
50:             <CardTitle className="text-2xl">? Allergies & Sensitivity</CardTitle>
51:             <CardDescription className="text-orange-100">
52:                 Manage genetic predispositions for various allergies and environmental sensitivities
53:             </CardDescription>
54:         </CardHeader>
55:         <CardContent className="space-y-8 p-8">
56:             { /* Action Buttons */ }
57:             <div className="flex justify-end gap-2 mb-6">
58:                 <Button onClick={onReset} variant="outline" size="sm">
59:                     <RotateCcw className="h-4 w-4 mr-2" />
60:                     Reset
61:                 </Button>
62:                 <Button onClick={onSave} size="sm">
63:                     <Save className="h-4 w-4 mr-2" />
64:                     Save Changes
65:                 </Button>
66:             </div>
67:
68:             { /* Allergy & Sensitivity Fields */ }
69:             <div className="grid md:grid-cols-2 lg:grid-cols-2 gap-6">
70:                 {Object.entries(allergiesAndSensitivity)
71:                     .filter(([key]) => key !== "generalAdvice")
72:                     .map(([key, item]) =>
73:                         renderAllergyField(
74:                             key as Exclude<keyof AllergiesAndSensitivity, "generalAdvice">,
75:                             item as AllergyData,
76:                             key.replace(/[A-Z]/g, " $1").replace(/^../, (str) => str.toUpperCase()),
77:                         ),
78:                     )}
79:             </div>
80:
81:             { /* General Advice */ }
82:             <div className="space-y-2">
83:                 <h3 className="text-xl font-semibold text-gray-800 border-b-2 border-orange-200 pb-2">? General A
84:                 <Label className="text-sm font-medium">General Advice for Allergies & Sensitivities</Label>
85:                 <Textarea
86:                     value={allergiesAndSensitivity.generalAdvice}
87:                     onChange={(e) => updateAllergiesAndSensitivity("generalAdvice", e.target.value)}
88:                     rows={5}
89:                     className="border-2 focus:border-orange-500 text-sm"
90:                     placeholder="Enter general advice for managing allergies and sensitivities..."
91:                 />
92:             </div>
93:
94:             { /* Section Guidelines */ }
95:             <div className="bg-orange-50 border-2 border-orange-200 rounded-lg p-6">
96:                 <h4 className="font-semibold text-orange-800 mb-2">? Allergies & Sensitivity Guidelines:</h4>
97:                 <div className="text-sm text-orange-700 space-y-2">
98:                     <ul className="list-disc list-inside space-y-1">
99:                         <li>
100:                             <strong>Dust Allergy:</strong> Genetic tendency towards allergic reactions to dust.
101:                         </li>
102:                         <li>
103:                             <strong>Pesticide Sensitivity:</strong> Genetic susceptibility to adverse reactions from pe
104:                         </li>
105:                         <li>
106:                             <strong>Smoke Sensitivity:</strong> Genetic predisposition to sensitivity from smoke (e.g.,
107:                             environmental).
108:                         </li>
109:                         <li>
110:                             <strong>Automobile Smoke Sensitivity:</strong> Genetic tendency to react to vehicle exhaust

```



```

111:             </li>
112:             <li>Genetic variations can influence immune system responses to various environmental factors
113:             <li>Personalized advice can help in reducing hyper-reactivity and managing symptoms.</li>
114:         </ul>
115:     </div>
116: </div>
117: </CardContent>
118: </Card>
119: )
120: }

```

■ File: components\admin\content-admin.tsx

```

=====
1: "use client";
2:
3: import {
4:   Card,
5:   CardContent,
6:   CardDescription,
7:   CardHeader,
8:   CardTitle,
9: } from "@components/ui/card";
10: import { Label } from "@components/ui/label";
11: import { Textarea } from "@components/ui/textarea";
12: import { Button } from "@components/ui/button";
13: import { Save, RotateCcw } from "lucide-react"; // Import icons
14: import type { ReportContent } from "@types/report-types";
15:
16: interface ContentAdminProps {
17:   content: ReportContent;
18:   updateContent: (field: keyof ReportContent, value: string) => void;
19:   onSave: () => void; // Added onSave
20:   onReset: () => void; // Added onReset
21: }
22:
23: export default function ContentAdmin({
24:   content,
25:   updateContent,
26:   onSave,
27:   onReset,
28: }: ContentAdminProps) {
29:   return (
30:     <Card className="shadow-lg border-0 bg-white">
31:       <CardHeader className="bg-gradient-to-r from-green-500 to-teal-600 text-white rounded-t-lg">
32:         <CardTitle className="text-2xl">? Report Content</CardTitle>
33:         <CardDescription className="text-green-100">
34:           Edit the main content sections of the report
35:         </CardDescription>
36:       </CardHeader>
37:       <CardContent className="space-y-8 p-8">
38:         { /* Action Buttons */ }
39:         <div className="flex justify-end gap-2 mb-6">
40:           <Button onClick={onReset} variant="outline" size="sm">
41:             <RotateCcw className="h-4 w-4 mr-2" />
42:             Reset
43:           </Button>
44:           <Button onClick={onSave} size="sm">
45:             <Save className="h-4 w-4 mr-2" />
46:             Save Changes
47:           </Button>
48:         </div>
49:
50:         <div className="space-y-3">
51:           <Label
52:             htmlFor="introduction"
53:             className="text-lg font-semibold text-gray-800"
54:           >
55:             ? Welcome Letter Introduction
56:           </Label>
57:           <Textarea
58:             id="introduction"

```

```

59:         value={content.introduction}
60:         onChange={(e) => updateContent("introduction", e.target.value)}
61:         placeholder="Enter introduction text"
62:         rows={8}
63:         className="border-2 focus:border-green-500 text-sm leading-relaxed"
64:     />
65: </div>
66: <div className="space-y-3">
67:     <Label
68:         htmlFor="genomicsExplanation"
69:         className="text-lg font-semibold text-gray-800"
70:     >
71:         ? What is Genomics?
72:     </Label>
73:     <Textarea
74:         id="genomicsExplanation"
75:         value={content.genomicsExplanation}
76:         onChange={(e) =>
77:             updateContent("genomicsExplanation", e.target.value)
78:         }
79:         placeholder="Enter genomics explanation"
80:         rows={8}
81:         className="border-2 focus:border-green-500 text-sm leading-relaxed"
82:     />
83: </div>
84: <div className="space-y-3">
85:     <Label
86:         htmlFor="genesHealthImpact"
87:         className="text-lg font-semibold text-gray-800"
88:     >
89:         ? Genes and Health Impact
90:     </Label>
91:     <Textarea
92:         id="genesHealthImpact"
93:         value={content.genesHealthImpact}
94:         onChange={(e) => updateContent("genesHealthImpact", e.target.value)}
95:         placeholder="Enter genes and health impact content"
96:         rows={8}
97:         className="border-2 focus:border-green-500 text-sm leading-relaxed"
98:     />
99: </div>
100: <div className="space-y-3">
101:     <Label
102:         htmlFor="fundamentalsPRS"
103:         className="text-lg font-semibold text-gray-800"
104:     >
105:         ? Fundamentals and PRS
106:     </Label>
107:     <Textarea
108:         id="fundamentalsPRS"
109:         value={content.fundamentalsPRS}
110:         onChange={(e) => updateContent("fundamentalsPRS", e.target.value)}
111:         placeholder="Enter fundamentals and PRS content"
112:         rows={8}
113:         className="border-2 focus:border-green-500 text-sm leading-relaxed"
114:     />
115: </div>
116: <div className="space-y-3">
117:     <Label
118:         htmlFor="utilityDoctors"
119:         className="text-lg font-semibold text-gray-800"
120:     >
121:         ??? Utility for Doctors and Dietitians
122:     </Label>
123:     <Textarea
124:         id="utilityDoctors"
125:         value={content.utilityDoctors}
126:         onChange={(e) => updateContent("utilityDoctors", e.target.value)}
127:         placeholder="Enter utility for doctors content"
128:         rows={8}
129:         className="border-2 focus:border-green-500 text-sm leading-relaxed"
130:     />
131: </div>

```

```

132:         <div className="space-y-3">
133:             <Label
134:                 htmlFor="microarrayExplanation"
135:                 className="text-lg font-semibold text-gray-800"
136:             >
137:                 ? Microarray Explanation
138:             </Label>
139:             <Textarea
140:                 id="microarrayExplanation"
141:                 value={content.microarrayExplanation}
142:                 onChange={(e) =>
143:                     updateContent("microarrayExplanation", e.target.value)
144:                 }
145:                 placeholder="Enter microarray explanation"
146:                 rows={8}
147:                 className="border-2 focus:border-green-500 text-sm leading-relaxed"
148:             />
149:         </div>
150:         <div className="space-y-3">
151:             <Label
152:                 htmlFor="microarrayData"
153:                 className="text-lg font-semibold text-gray-800"
154:             >
155:                 ? Your Microarray Data
156:             </Label>
157:             <Textarea
158:                 id="microarrayData"
159:                 value={content.microarrayData}
160:                 onChange={(e) => updateContent("microarrayData", e.target.value)}
161:                 placeholder="Enter microarray data content"
162:                 rows={8}
163:                 className="border-2 focus:border-green-500 text-sm leading-relaxed"
164:             />
165:         </div>
166:     </CardContent>
167: </Card>
168: );
169: }

```

File: components\admin\diet-analysis-admin.tsx

```

1: "use client"
2:
3: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@/components/ui/card"
4: import { Input } from "@/components/ui/input"
5: import { Label } from "@/components/ui/label"
6: import { Textarea } from "@/components/ui/textarea"
7: import { Select, SelectContent, SelectItem, SelectTrigger, SelectValue } from "@/components/ui/select"
8: import { Button } from "@/components/ui/button" // Import Button
9: import { Save, RotateCcw } from "lucide-react" // Import icons
10: import type { DietAnalysis, MacronutrientData } from "@/types/report-types"
11:
12: interface DietAnalysisAdminProps {
13:   dietAnalysis: DietAnalysis
14:   updateDietAnalysis: (section: keyof DietAnalysis, field: string, data: Partial<MacronutrientData>) => void
15:   onSave: () => void // Added onSave
16:   onReset: () => void // Added onReset
17: }
18:
19: export default function DietAnalysisAdmin({
20:   dietAnalysis,
21:   updateDietAnalysis,
22:   onSave,
23:   onReset,
24: }: DietAnalysisAdminProps) {
25:   const renderMacronutrientField = (
26:     section: keyof DietAnalysis,
27:     field: string,
28:     data: MacronutrientData,
29:     title: string,
30:   ) => (

```

```

31:     <Card key={field} className="border-2 border-blue-100 bg-blue-50/30">
32:       <CardHeader className="pb-3">
33:         <CardTitle className="text-lg text-blue-800">{title}</CardTitle>
34:       </CardHeader>
35:       <CardContent className="space-y-4">
36:         <div className="grid grid-cols-2 gap-4">
37:           <div className="space-y-2">
38:             <Label className="text-sm font-medium">Score (1-10)</Label>
39:             <Input
40:               type="number"
41:               min="1"
42:               max="10"
43:               value={data.score}
44:               onChange={(e) => updateDietAnalysis(section, field, { score: Number.parseInt(e.target.value)
45:               className="border-2 focus:border-blue-500"
46:             />
47:           </div>
48:           <div className="space-y-2">
49:             <Label className="text-sm font-medium">Level</Label>
50:             <Select value={data.level} onValueChange={(value) => updateDietAnalysis(section, field, { level
51:               <SelectTrigger className="border-2 focus:border-blue-500">
52:                 <SelectValue />
53:               </SelectTrigger>
54:               <SelectContent>
55:                 <SelectItem value="HIGH">HIGH</SelectItem>
56:                 <SelectItem value="NORMAL">NORMAL</SelectItem>
57:                 <SelectItem value="LOW">LOW</SelectItem>
58:                 <SelectItem value="FREQUENT">FREQUENT</SelectItem>
59:                 <SelectItem value="LESS FREQUENT">LESS FREQUENT</SelectItem>
60:                 <SelectItem value="SUITABLE">SUITABLE</SelectItem>
61:                 <SelectItem value="LESS SUITABLE">LESS SUITABLE</SelectItem>
62:               </SelectContent>
63:             </Select>
64:           </div>
65:         </div>
66:         <div className="space-y-2">
67:           <Label className="text-sm font-medium">Recommendation</Label>
68:           <Textarea
69:             value={data.recommendation}
70:             onChange={(e) => updateDietAnalysis(section, field, { recommendation: e.target.value }}}
71:             rows={3}
72:             className="border-2 focus:border-blue-500 text-sm"
73:           />
74:         </div>
75:       </CardContent>
76:     </Card>
77:   )
78:
79:   return (
80:     <Card className="shadow-lg border-0 bg-white">
81:       <CardHeader className="bg-gradient-to-r from-amber-500 to-orange-600 text-white rounded-t-lg">
82:         <CardTitle className="text-2xl">? Diet Analysis</CardTitle>
83:         <CardDescription className="text-amber-100">
84:           Configure macronutrients, meal patterns, and food sensitivities
85:         </CardDescription>
86:       </CardHeader>
87:       <CardContent className="space-y-8 p-8">
88:         { /* Action Buttons */ }
89:         <div className="flex justify-end gap-2 mb-6">
90:           <Button onClick={onReset} variant="outline" size="sm">
91:             <RotateCcw className="h-4 w-4 mr-2" />
92:             Reset
93:           </Button>
94:           <Button onClick={onSave} size="sm">
95:             <Save className="h-4 w-4 mr-2" />
96:             Save Changes
97:           </Button>
98:         </div>
99:
100:         { /* Macronutrients Section */ }
101:         <div className="space-y-4">
102:           <h3 className="text-xl font-semibold text-gray-800 border-b-2 border-amber-200 pb-2">? Macronutri
103:           <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-6">

```

```

104:         {renderMacronutrientField(
105:             "macronutrients",
106:             "carbohydrateSensitivity",
107:             dietAnalysis.macronutrients.carbohydrateSensitivity,
108:             "Carbohydrate Sensitivity",
109:         )}
110:     {renderMacronutrientField(
111:         "macronutrients",
112:         "fatSensitivity",
113:         dietAnalysis.macronutrients.fatSensitivity,
114:         "Fat Sensitivity",
115:     )}
116:     {renderMacronutrientField(
117:         "macronutrients",
118:         "proteinRequirement",
119:         dietAnalysis.macronutrients.proteinRequirement,
120:         "Protein Requirement",
121:     )}
122: </div>
123: </div>
124:
125: { /* Meal Pattern Section */}
126: <div className="space-y-4">
127:     <h3 className="text-xl font-semibold text-gray-800 border-b-2 border-amber-200 pb-2">?? Meal Pattern</h3>
128:     <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-6">
129:         {renderMacronutrientField(
130:             "mealPattern",
131:             "mealFrequency",
132:             dietAnalysis.mealPattern.mealFrequency,
133:             "Meal Frequency",
134:         )}
135:         {renderMacronutrientField(
136:             "mealPattern",
137:             "mealReplacement",
138:             dietAnalysis.mealPattern.mealReplacement,
139:             "Meal Replacement",
140:         )}
141:         {renderMacronutrientField(
142:             "mealPattern",
143:             "weightMaintenance",
144:             dietAnalysis.mealPattern.weightMaintenance,
145:             "Weight Maintenance",
146:         )}
147:     </div>
148: </div>
149:
150: { /* Food Sensitivities Section */}
151: <div className="space-y-4">
152:     <h3 className="text-xl font-semibold text-gray-800 border-b-2 border-amber-200 pb-2">?? Food Sensitivities</h3>
153:     ? Food Sensitivities
154: </h3>
155:     <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-6">
156:         {renderMacronutrientField(
157:             "foodSensitivities",
158:             "alcoholSensitivity",
159:             dietAnalysis.foodSensitivities.alcoholSensitivity,
160:             "Alcohol Sensitivity",
161:         )}
162:         {renderMacronutrientField(
163:             "foodSensitivities",
164:             "caffeineSensitivity",
165:             dietAnalysis.foodSensitivities.caffeineSensitivity,
166:             "Caffeine Sensitivity",
167:         )}
168:         {renderMacronutrientField(
169:             "foodSensitivities",
170:             "glutenSensitivity",
171:             dietAnalysis.foodSensitivities.glutenSensitivity,
172:             "Gluten Sensitivity",
173:         )}
174:         {renderMacronutrientField(
175:             "foodSensitivities",
176:             "lactoseSensitivity",

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177:         dietAnalysis.foodSensitivities.lactoseSensitivity,
178:         "Lactose Sensitivity",
179:     )}
180:     {renderMacronutrientField(
181:         "foodSensitivities",
182:         "saltSensitivity",
183:         dietAnalysis.foodSensitivities.saltSensitivity,
184:         "Salt Sensitivity",
185:     )}
186: </div>
187: </div>
188:
189: { /* Taste Sensitivities Section */}
190: <div className="space-y-4">
191:     <h3 className="text-xl font-semibold text-gray-800 border-b-2 border-amber-200 pb-2">
192:         ? Taste Sensitivities
193:     </h3>
194:     <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-6">
195:         {renderMacronutrientField(
196:             "tasteSensitivities",
197:             "spiceTolerance",
198:             dietAnalysis.tasteSensitivities.spiceTolerance,
199:             "Spice Tolerance",
200:         )}
201:         {renderMacronutrientField(
202:             "tasteSensitivities",
203:             "sweetTaste",
204:             dietAnalysis.tasteSensitivities.sweetTaste,
205:             "Sweet Taste",
206:         )}
207:         {renderMacronutrientField(
208:             "tasteSensitivities",
209:             "tasteSensitivity",
210:             dietAnalysis.tasteSensitivities.tasteSensitivity,
211:             "Taste Sensitivity",
212:         )}
213:     </div>
214: </div>
215: </CardContent>
216: </Card>
217: )
218: }

```

File: components\admin\digestive-health-admin.tsx

```

=====
1: "use client"
2:
3: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@/components/ui/card"
4: import { Input } from "@/components/ui/input"
5: import { Label } from "@/components/ui/label"
6: import { Textarea } from "@/components/ui/textarea"
7: import { Button } from "@/components/ui/button"
8: import { Save, RotateCcw } from "lucide-react"
9: import type { DigestiveHealth, DigestiveHealthData } from "@/types/report-types"
10:
11: interface DigestiveHealthAdminProps {
12:     digestiveHealth: DigestiveHealth
13:     updateDigestiveHealth: (field: keyof DigestiveHealth, data: Partial<DigestiveHealthData>) => void
14:     onSave: () => void
15:     onReset: () => void
16: }
17:
18: export default function DigestiveHealthAdmin({
19:     digestiveHealth,
20:     updateDigestiveHealth,
21:     onSave,
22:     onReset,
23: }: DigestiveHealthAdminProps) {
24:     const renderDigestiveHealthField = (field: keyof DigestiveHealth, data: DigestiveHealthData, title: string) => {
25:         <Card key={field} className="border-2 border-red-100 bg-red-50/30">
26:             <CardHeader className="pb-3">

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27:         <CardTitle className="text-lg text-red-800">{title}</CardTitle>
28:     </CardHeader>
29:     <CardContent className="space-y-4">
30:         <div className="space-y-2">
31:             <Label className="text-sm font-medium">Level</Label>
32:             <Input
33:                 value={data.level}
34:                 onChange={(e) => updateDigestiveHealth(field, { level: e.target.value })}
35:                 placeholder="e.g., NORMAL GUT HEALTH"
36:                 className="border-2 focus:border-red-500"
37:             />
38:         </div>
39:         <div className="space-y-2">
40:             <Label className="text-sm font-medium">Description</Label>
41:             <Textarea
42:                 value={data.description}
43:                 onChange={(e) => updateDigestiveHealth(field, { description: e.target.value })}
44:                 rows={3}
45:                 className="border-2 focus:border-red-500 text-sm"
46:             />
47:         </div>
48:     </CardContent>
49: </Card>
50: )
51:
52: return (
53:     <Card className="shadow-lg border-0 bg-white">
54:         <CardHeader className="bg-gradient-to-r from-red-500 to-orange-600 text-white rounded-t-lg">
55:             <CardTitle className="text-2xl">? Digestive Health</CardTitle>
56:             <CardDescription className="text-red-100">
57:                 Manage genetic influences on gut health, intolerances, and sensitivities
58:             </CardDescription>
59:         </CardHeader>
60:         <CardContent className="space-y-8 p-8">
61:             { /* Action Buttons */ }
62:             <div className="flex justify-end gap-2 mb-6">
63:                 <Button onClick={onReset} variant="outline" size="sm">
64:                     <RotateCcw className="h-4 w-4 mr-2" />
65:                     Reset
66:                 </Button>
67:                 <Button onClick={onSave} size="sm">
68:                     <Save className="h-4 w-4 mr-2" />
69:                     Save Changes
70:                 </Button>
71:             </div>
72:
73:             { /* Digestive Health Fields */ }
74:             <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-6">
75:                 {Object.entries(digestiveHealth).map(([key, item]) =>
76:                     renderDigestiveHealthField(
77:                         key as keyof DigestiveHealth,
78:                         item as DigestiveHealthData,
79:                         key.replace(/[A-Z])/g, " $1").replace(/^./, (str) => str.toUpperCase()),
80:                 ),
81:             }
82:             </div>
83:
84:             { /* Section Guidelines */ }
85:             <div className="bg-red-50 border-2 border-red-200 rounded-lg p-6">
86:                 <h4 className="font-semibold text-red-800 mb-2">? Digestive Health Guidelines:</h4>
87:                 <div className="text-sm text-red-700 space-y-2">
88:                     <ul className="list-disc list-inside space-y-1">
89:                         <li>
90:                             <strong>Gut Health:</strong> Overall genetic predisposition for gut function.
91:                         </li>
92:                         <li>
93:                             <strong>Gluten Intolerance:</strong> Genetic tendency towards gluten sensitivity.
94:                         </li>
95:                         <li>
96:                             <strong>Celiac Disease Tendency:</strong> Genetic risk for celiac disease.
97:                         </li>
98:                         <li>
99:                             <strong>Impact on Bones/Joints:</strong> How digestive health genetics might influence muscu

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100:         health.
101:     </li>
102: </li>
103:     <strong>Lactose Intolerance:</strong> Genetic ability to digest lactose.
104: </li>
105: </li>
106:     <strong>Probiotics Requirement:</strong> Indication for probiotic supplementation based on
107: </li>
108: </ul>
109: </div>
110: </div>
111: </CardContent>
112: </Card>
113: )
114: }

```

■ File: components\admin\dynamic-diet-field-admin.tsx

```

1: "use client";
2:
3: import { useState, useEffect } from "react";
4: import { DragDropContext, Droppable, Draggable } from "@hello-pangea/dnd";
5: import { v4 as uuidv4 } from "uuid";
6: import {
7:   Card,
8:   CardContent,
9:   CardDescription,
10:  CardHeader,
11:  CardTitle,
12: } from "@/components/ui/card";
13: import { Button } from "@/components/ui/button";
14: import { Plus, Save, RotateCcw, Trash2, GripVertical } from "lucide-react";
15: import { useToast } from "@/components/ui/use-toast";
16: import {
17:   FieldInput,
18:   FieldTextarea,
19:   FieldSelect,
20: } from "@/components/admin/dynamic-field-helpers";
21: import type { DynamicDietFieldDefinition } from "@/types/report-types";
22:
23: interface DynamicDietFieldAdminProps {
24:   dynamicDietFieldDefinitions: DynamicDietFieldDefinition[];
25:   updateDynamicDietFieldDefinitions: (
26:     definitions: DynamicDietFieldDefinition[]
27:   ) => void;
28:   onSave: () => void;
29:   onReset: () => void;
30: }
31:
32: export default function DynamicDietFieldAdmin({
33:   dynamicDietFieldDefinitions,
34:   updateDynamicDietFieldDefinitions,
35:   onSave,
36:   onReset,
37: }: DynamicDietFieldAdminProps) {
38:   const [localFields, setLocalFields] = useState<DynamicDietFieldDefinition[]>(
39:     dynamicDietFieldDefinitions
40:   );
41:   const [categories, setCategories] = useState<string[]>([
42:     "Macronutrients",
43:     "Meal Pattern",
44:     "Food Sensitivities",
45:     "Taste Sensitivities",
46:   ]); // Predefined categories for diet analysis
47:   const [showCreateModal, setShowCreateModal] = useState(false);
48:   const [newFieldData, setNewFieldData] = useState<
49:     Omit<DynamicDietFieldDefinition, "_uuid" | "id">
50:   >({
51:     label: "",
52:     category: categories[0] || "", // Default to first category
53:     min: 1,

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54:     max: 10,
55:     highRecommendation: "",
56:     normalRecommendation: "",
57:     lowRecommendation: "",
58:   });
59:   const { toast } = useToast();
60:
61:   useEffect(() => {
62:     setLocalFields(dynamicDietFieldDefinitions);
63:   }, [dynamicDietFieldDefinitions]);
64:
65:   const addNewField = () => {
66:     if (!newFieldData.label.trim()) {
67:       toast({
68:         title: "Validation Error",
69:         description: "Field label is required.",
70:         variant: "destructive",
71:         duration: 3000,
72:       });
73:       return;
74:     }
75:
76:     const fieldId = newFieldData.label
77:       .toLowerCase()
78:       .replace(/\s+/g, "_")
79:       .replace(/[^a-z0-9_]/g, "");
80:     const isDuplicate = localFields.some((field) => field.id === fieldId);
81:
82:     if (isDuplicate) {
83:       toast({
84:         title: "Validation Error",
85:         description: "A field with this label (ID) already exists.",
86:         variant: "destructive",
87:         duration: 3000,
88:       });
89:       return;
90:     }
91:
92:     const newField: DynamicDietFieldDefinition = {
93:       _uuid: uuidv4(),
94:       id: fieldId,
95:       ...newFieldData,
96:     };
97:
98:     const updatedFields = [...localFields, newField];
99:     setLocalFields(updatedFields);
100:    updateDynamicDietFieldDefinitions(updatedFields);
101:    setShowCreateModal(false);
102:    setNewFieldData({
103:      label: "",
104:      category: categories[0] || "",
105:      min: 1,
106:      max: 10,
107:      highRecommendation: "",
108:      normalRecommendation: "",
109:      lowRecommendation: "",
110:    });
111:    toast({
112:      title: "Field Added",
113:      description: `"${newField.label}" has been added. Remember to Save Changes.`,
114:      variant: "success",
115:      duration: 3000,
116:    });
117:  };
118:
119:   const handleCreateModalClose = () => {
120:     setShowCreateModal(false);
121:     setNewFieldData({
122:       label: "",
123:       category: categories[0] || "",
124:       min: 1,
125:       max: 10,
126:       highRecommendation: "",

```

```

127:         normalRecommendation: "",
128:         lowRecommendation: "",
129:     });
130: };
131:
132: const updateLocalField = (
133:     index: number,
134:     key: keyof DynamicDietFieldDefinition,
135:     value: any
136: ) => {
137:     const updated = [...localFields];
138:     if (key === "id") {
139:         const newId = String(value)
140:             .toLowerCase()
141:             .replace(/\\s+/g, "_")
142:             .replace(/[^a-z0-9_]/g, "");
143:         const isDuplicate = localFields.some(
144:             (f, i) => i !== index && f.id === newId
145:         );
146:         if (isDuplicate) {
147:             toast({
148:                 title: "Validation Error",
149:                 description: "Field ID must be unique.",
150:                 variant: "destructive",
151:                 duration: 3000,
152:             });
153:             return;
154:         }
155:         updated[index] = { ...updated[index], [key]: newId };
156:     } else {
157:         updated[index] = { ...updated[index], [key]: value };
158:     }
159:     setLocalFields(updated);
160:     updateDynamicDietFieldDefinitions(updated); // Update parent state immediately
161: };
162:
163: const deleteField = (idToDelete: string) => {
164:     if (
165:         !window.confirm(
166:             "Are you sure you want to delete this field? This action cannot be undone."
167:         )
168:     ) {
169:         return;
170:     }
171:     const updatedFields = localFields.filter(
172:         (field) => field.id !== idToDelete
173:     );
174:     setLocalFields(updatedFields);
175:     updateDynamicDietFieldDefinitions(updatedFields);
176:     toast({
177:         title: "Field Deleted",
178:         description: "Field removed. Remember to Save Changes.",
179:         variant: "destructive",
180:         duration: 3000,
181:     });
182: };
183:
184: const onDragEnd = (result: any) => {
185:     if (!result.destination) return;
186:
187:     const reordered = Array.from(localFields);
188:     const [moved] = reordered.splice(result.source.index, 1);
189:     reordered.splice(result.destination.index, 0, moved);
190:
191:     setLocalFields(reordered);
192:     updateDynamicDietFieldDefinitions(reordered); // Update parent state
193:     toast({
194:         title: "Fields Reordered",
195:         description: "Order updated. Remember to Save Changes.",
196:         variant: "warning",
197:         duration: 3000,
198:     });
199: };

```

```

200:
201:   return (
202:     <Card className="shadow-lg border-0 bg-white">
203:       <CardHeader className="bg-gradient-to-r from-amber-500 to-orange-600 text-white rounded-t-lg">
204:         <CardTitle className="text-2xl">
205:           ? Dynamic Diet Field Management
206:         </CardTitle>
207:         <CardDescription className="text-amber-100">
208:           Define and manage the types of diet analysis fields for your reports.
209:         </CardDescription>
210:       </CardHeader>
211:       <CardContent className="space-y-8 p-8">
212:         <div className="flex justify-start items-center">
213:           <h3 className="text-xl font-semibold text-gray-800">
214:             Configured Fields
215:           </h3>
216:         </div>
217:
218:         <div className="flex justify-end mb-6">
219:           <Button
220:             onClick={onReset}
221:             variant="outline"
222:             size="sm"
223:             className="mx-1"
224:           >
225:             <RotateCcw className="h-4 w-4 mr-2" />
226:             Reset Section
227:           </Button>
228:           <Button
229:             onClick={() => setShowCreateModal(true)}
230:             size="sm"
231:             className="mx-1"
232:           >
233:             <Plus className="h-4 w-4 mr-2" />
234:             Add New Field
235:           </Button>
236:           <Button onClick={onSave} size="sm" className="mx-1">
237:             <Save className="h-4 w-4 mr-2" />
238:             Save All Changes
239:           </Button>
240:         </div>
241:
242:         {localFields.length === 0 ? (
243:           <div className="text-center py-12 text-gray-500 italic">
244:             No dynamic diet fields defined yet.
245:           </div>
246:         ) : (
247:           <DragDropContext onDragEnd={onDragEnd}>
248:             <Draggable droppableId="fields">
249:               {(provided) => (
250:                 <div
251:                   {...provided.droppableProps}
252:                   ref={provided.innerRef}
253:                   className="space-y-4"
254:                 >
255:                   {localFields.map((field, index) => (
256:                     <Draggable
257:                       key={field._uuid}
258:                       draggableId={field._uuid}
259:                       index={index}
260:                     >
261:                       {(provided, snapshot) => (
262:                         <div
263:                           ref={provided.innerRef}
264:                           {...provided.draggableProps}
265:                           className={`border rounded-lg p-4 bg-white shadow-sm transition-all duration-200
266:                             ${snapshot.isDragging
267:                               ? "bg-gray-100 ring-2 ring-blue-500 shadow-lg"
268:                               : "hover:shadow-md"}
269:                         >
270:                       </div>
271:                     </div>
272:                   )

```

```

273:         <span
274:             {...provided.dragHandleProps}
275:             className="cursor-grab text-gray-400"
276:         >
277:             <GripVertical className="h-5 w-5" />
278:         </span>
279:         <h4 className="text-lg font-semibold text-gray-900">
280:             {index + 1}. {field.label} (ID: {field.id})
281:         </h4>
282:     </div>
283:     <Button
284:         variant="destructive"
285:         size="sm"
286:         onClick={() => deleteField(field.id)}
287:         className="ml-4"
288:     >
289:         <Trash2 className="h-4 w-4" />
290:     </Button>
291: </div>
292:
293: <div className="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-3 gap-4">
294:     { /* First row - 3 columns */}
295:     <FieldInput
296:         label="Field ID (Auto-generated from Label)"
297:         value={field.id}
298:         onChange={(val) =>
299:             updateLocalField(index, "id", val)
300:         }
301:         disabled // ID is derived from label, not directly editable
302:     />
303:     <FieldInput
304:         label="Label"
305:         value={field.label}
306:         onChange={(val) =>
307:             updateLocalField(index, "label", val)
308:         }
309:     />
310:     <FieldSelect
311:         label="Category"
312:         value={field.category}
313:         options={categories}
314:         onChange={(val) =>
315:             updateLocalField(index, "category", val)
316:         }
317:     />
318:     { /* Second row - 2 columns on left side */}
319:     <FieldInput
320:         label="Min Score"
321:         type="number"
322:         value={field.min}
323:         onChange={(val) =>
324:             updateLocalField(index, "min", val)
325:         }
326:         min={0}
327:         max={field.max}
328:     />
329:     <FieldInput
330:         label="Max Score"
331:         type="number"
332:         value={field.max}
333:         onChange={(val) =>
334:             updateLocalField(index, "max", val)
335:         }
336:         min={field.min}
337:     />
338: </div></div>{ " "}
339: { /* Empty div for spacing on the right */}
340: { /* Third row - 3 columns */}
341: <FieldTextarea
342:     label="High Recommendation"
343:     value={field.highRecommendation}
344:     onChange={(val) =>
345:         updateLocalField(

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346:             index,
347:             "highRecommendation",
348:             val
349:         )
350:     }
351: }
352: </FieldTextarea>
353:     label="Normal Recommendation"
354:     value={field.normalRecommendation}
355:     onChange={(val) =>
356:         updateLocalField(
357:             index,
358:             "normalRecommendation",
359:             val
360:         )
361:     }
362: }
363: </FieldTextarea>
364:     label="Low Recommendation"
365:     value={field.lowRecommendation}
366:     onChange={(val) =>
367:         updateLocalField(
368:             index,
369:             "lowRecommendation",
370:             val
371:         )
372:     }
373: }
374: </div>
375: </div>
376: )}
377: </Draggable>
378: )}
379: {provided.placeholder}
380: </div>
381: )}
382: </Droppable>
383: </DragDropContext>
384: )}
385: </CardContent>
386:
387: { /* Create New Field Modal */}
388: {showCreateModal && (
389:     <div className="fixed inset-0 bg-black bg-opacity-50 flex items-center justify-center z-50 p-4">
390:         <div className="bg-white rounded-lg p-6 w-full max-w-md max-h-[90vh] overflow-y-auto shadow-xl">
391:             <h3 className="text-xl font-bold mb-4">
392:                 Add New Diet Field Definition
393:             </h3>
394:             <div className="space-y-4">
395:                 <FieldInput
396:                     label="Field Label"
397:                     value={newFieldData.label}
398:                     onChange={(val) =>
399:                         setNewFieldData({ ...newFieldData, label: val })
400:                     }
401:                     placeholder="e.g., Gluten Sensitivity"
402:                     required
403:                 />
404:                 <FieldSelect
405:                     label="Category"
406:                     value={newFieldData.category}
407:                     options={categories}
408:                     onChange={(val) =>
409:                         setNewFieldData({ ...newFieldData, category: val })
410:                     }
411:                 />
412:             </div>
413:             <FieldInput
414:                 label="Min Score"
415:                 type="number"
416:                 value={newFieldData.min}
417:                 onChange={(val) =>
418:                     setNewFieldData({ ...newFieldData, min: Number(val) })

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```

419:         }
420:         min={0}
421:         max={newFieldData.max}
422:       />
423:       <FieldInput
424:         label="Max Score"
425:         type="number"
426:         value={newFieldData.max}
427:         onChange={(val) =>
428:           setNewFieldData({ ...newFieldData, max: Number(val) })
429:         }
430:         min={newFieldData.min}
431:       />
432:     </div>
433:     <FieldTextarea
434:       label="High Recommendation"
435:       value={newFieldData.highRecommendation}
436:       onChange={(val) =>
437:         setNewFieldData({ ...newFieldData, highRecommendation: val })
438:       }
439:       placeholder="Recommendation for high score"
440:     />
441:     <FieldTextarea
442:       label="Normal Recommendation"
443:       value={newFieldData.normalRecommendation}
444:       onChange={(val) =>
445:         setNewFieldData({
446:           ...newFieldData,
447:           normalRecommendation: val,
448:         })
449:       }
450:       placeholder="Recommendation for normal score"
451:     />
452:     <FieldTextarea
453:       label="Low Recommendation"
454:       value={newFieldData.lowRecommendation}
455:       onChange={(val) =>
456:         setNewFieldData({ ...newFieldData, lowRecommendation: val })
457:       }
458:       placeholder="Recommendation for low score"
459:     />
460:   </div>
461:   <div className="flex justify-end gap-3 mt-6">
462:     <Button variant="outline" onClick={handleCreateModalClose}>
463:       Cancel
464:     </Button>
465:     <Button onClick={addNewField}>Add Field</Button>
466:   </div>
467: </div>
468: </div>
469:   )}
470: </Card>
471: );
472: }

```

■ File: components\admin\dynamic-field-helpers.tsx

```

=====
1: "use client"
2:
3: import type React from "react"
4:
5: interface FieldInputProps {
6:   label: string
7:   value: string | number | undefined
8:   onChange: (value: string | number) => void
9:   type?: React.HTMLInputTypeAttribute
10:  disabled?: boolean
11:  placeholder?: string
12:  required?: boolean
13:  min?: number
14:  max?: number

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```

15: }
16:
17: export const FieldInput: React.FC<FieldInputProps> = ({
18:   label,
19:   value,
20:   onChange,
21:   type = "text",
22:   disabled = false,
23:   placeholder = "",
24:   required = false,
25:   min,
26:   max,
27: }) => (
28:   <div className="flex flex-col">
29:     <label className="text-sm font-medium text-gray-700 mb-1">{label}</label>
30:     <input
31:       type={type}
32:       disabled={disabled}
33:       placeholder={placeholder}
34:       required={required}
35:       min={min}
36:       max={max}
37:       className={`w-full border rounded-md px-3 py-2 text-sm focus:outline-none focus:ring-2 focus:ring-blue-500
38:         disabled ? "bg-gray-100 text-gray-500 cursor-not-allowed" : "bg-white border-gray-300 hover:border-gray-350"}
39:     >
40:       {value ?? ""}
41:     </input>
42:   </div>
43: )
44:
45:
46: interface FieldTextareaProps {
47:   label: string
48:   value: string | undefined
49:   onChange: (value: string) => void
50: }
51:
52: export const FieldTextarea: React.FC<FieldTextareaProps> = ({ label, value, onChange }) => (
53:   <div className="flex flex-col">
54:     <label className="text-sm font-medium text-gray-700 mb-1">{label}</label>
55:     <textarea
56:       rows={3}
57:       className="w-full border border-gray-300 rounded-md px-3 py-2 text-sm focus:outline-none focus:ring-2 focus:ring-blue-500"
58:       value={value ?? ""}
59:       onChange={(e) => onChange(e.target.value)}
60:     >
61:     </div>
62:   )
63:
64: interface FieldSelectProps {
65:   label: string
66:   value: string | undefined
67:   options: string[]
68:   onChange: (value: string) => void
69: }
70:
71: export const FieldSelect: React.FC<FieldSelectProps> = ({ label, value, options, onChange }) => (
72:   <div className="flex flex-col">
73:     <label className="text-sm font-medium text-gray-700 mb-1">{label}</label>
74:     <select
75:       className="w-full border border-gray-300 rounded-md px-3 py-2 text-sm focus:outline-none focus:ring-2 focus:ring-blue-500"
76:       value={value ?? ""}
77:       onChange={(e) => onChange(e.target.value)}
78:     >
79:       <option value="">? Select Category ?</option>
80:       {options.map((opt, i) => (
81:         <option key={i} value={opt}>
82:           {opt}
83:         </option>
84:       ))}
85:     </select>
86:   </div>
87: )

```

■ File: components\admin\family-genetic-impact-admin.tsx

```
=====
1: "use client"
2:
3: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@components/ui/card"
4: import { Input } from "@components/ui/input"
5: import { Label } from "@components/ui/label"
6: import { Textarea } from "@components/ui/textarea"
7: import { Button } from "@components/ui/button"
8: import { Save, RotateCcw, Plus, Trash2 } from "lucide-react"
9: import type { FamilyGeneticImpact } from "@types/report-types"
10:
11: interface FamilyGeneticImpactAdminProps {
12:   familyGeneticImpact: FamilyGeneticImpact[]
13:   addFamilyGeneticImpact: () => void
14:   updateFamilyGeneticImpact: (index: number, field: keyof FamilyGeneticImpact, value: string) => void
15:   removeFamilyGeneticImpact: (index: number) => void
16:   onSave: () => void
17:   onReset: () => void
18: }
19:
20: export default function FamilyGeneticImpactAdmin({
21:   familyGeneticImpact,
22:   addFamilyGeneticImpact,
23:   updateFamilyGeneticImpact,
24:   removeFamilyGeneticImpact,
25:   onSave,
26:   onReset,
27: }: FamilyGeneticImpactAdminProps) {
28:   return (
29:     <Card className="shadow-lg border-0 bg-white">
30:       <CardHeader className="bg-gradient-to-r from-blue-500 to-cyan-600 text-white rounded-t-lg">
31:         <CardTitle className="text-2xl">?????? Family Genetic Impact</CardTitle>
32:         <CardDescription className="text-blue-100">
33:           Manage genetic variations that may impact family members
34:         </CardDescription>
35:       </CardHeader>
36:       <CardContent className="space-y-8 p-8">
37:         {/* Action Buttons */}
38:         <div className="flex justify-between items-center mb-6">
39:           <Button onClick={addFamilyGeneticImpact} size="sm">
40:             <Plus className="h-4 w-4 mr-2" />
41:             Add Genetic Impact
42:           </Button>
43:           <div className="flex gap-2">
44:             <Button onClick={onReset} variant="outline" size="sm">
45:               <RotateCcw className="h-4 w-4 mr-2" />
46:               Reset
47:             </Button>
48:             <Button onClick={onSave} size="sm">
49:               <Save className="h-4 w-4 mr-2" />
50:               Save Changes
51:             </Button>
52:           </div>
53:         </div>
54:
55:         {/* Family Genetic Impact List */}
56:         <div className="space-y-6">
57:           {familyGeneticImpact.length === 0 && (
58:             <div className="text-center py-12 text-gray-500">
59:               <div className="text-6xl mb-4">?</div>
60:               <p className="text-lg mb-4">No family genetic impacts added yet</p>
61:               <Button onClick={addFamilyGeneticImpact} className="bg-blue-600 hover:bg-blue-700">
62:                 <Plus className="h-4 w-4 mr-2" />
63:                 Add First Impact
64:               </Button>
65:             </div>
66:           )}
67:
68:           {familyGeneticImpact.map((impact, index) => (
69:             <Card key={index} className="border-2 border-blue-100 bg-blue-50/30">
70:               <CardHeader className="pb-3">
71:                 <CardTitle className="text-lg text-blue-800 flex justify-between items-center">
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72:         Genetic Impact #{index + 1}
73:         <Button onClick={() => removeFamilyGeneticImpact(index)} size="sm" variant="destructive">
74:             <Trash2 className="h-4 w-4" />
75:         </Button>
76:     </CardTitle>
77: </CardHeader>
78: <CardContent className="space-y-4">
79:     <div className="space-y-2">
80:         <Label className="text-sm font-medium">Gene</Label>
81:         <Input
82:             value={impact.gene}
83:             onChange={(e) => updateFamilyGeneticImpact(index, "gene", e.target.value)}
84:             placeholder="e.g., MnSOD"
85:             className="border-2 focus:border-blue-500 font-mono"
86:         />
87:     </div>
88:     <div className="space-y-2">
89:         <Label className="text-sm font-medium">Normal/Common Alleles</Label>
90:         <Input
91:             value={impact.normalAlleles}
92:             onChange={(e) => updateFamilyGeneticImpact(index, "normalAlleles", e.target.value)}
93:             placeholder="e.g., AA"
94:             className="border-2 focus:border-blue-500 font-mono"
95:         />
96:     </div>
97:     <div className="space-y-2">
98:         <Label className="text-sm font-medium">Your Result</Label>
99:         <Input
100:             value={impact.yourResult}
101:             onChange={(e) => updateFamilyGeneticImpact(index, "yourResult", e.target.value)}
102:             placeholder="e.g., AG"
103:             className="border-2 focus:border-blue-500 font-mono font-bold"
104:         />
105:     </div>
106:     <div className="space-y-2">
107:         <Label className="text-sm font-medium">Impact on Health</Label>
108:         <Textarea
109:             value={impact.healthImpact}
110:             onChange={(e) => updateFamilyGeneticImpact(index, "healthImpact", e.target.value)}
111:             rows={3}
112:             placeholder="e.g., INCREASED TENDENCY OF OXIDATIVE STRESS NEED OF ANTI-OXIDANT SUPPLEMEN
113:             className="border-2 focus:border-blue-500 text-sm"
114:         />
115:     </div>
116: </CardContent>
117: </Card>
118:     )}
119: </div>
120:
121: { /* Section Guidelines */ }
122: <div className="bg-blue-50 border-2 border-blue-200 rounded-lg p-6">
123:     <h4 className="font-semibold text-blue-800 mb-2">? Family Genetic Impact Guidelines:</h4>
124:     <div className="text-sm text-blue-700 space-y-2">
125:         <ul className="list-disc list-inside space-y-1">
126:             <li>
127:                 This section highlights genetic variations observed in the patient that may also be present
128:                 family members (parents, siblings, children).
129:             </li>
130:             <li>
131:                 It serves as a recommendation for family members to consider genetic testing for similar
132:                 predispositions.
133:             </li>
134:             <li>
135:                 <strong>Gene:</strong> The specific gene with a noted variation.
136:             </li>
137:             <li>
138:                 <strong>Normal/Common Alleles:</strong> The typical genetic variants.
139:             </li>
140:             <li>
141:                 <strong>Your Result:</strong> The patient's specific genetic variant.
142:             </li>
143:             <li>
144:                 <strong>Impact on Health:</strong> The health implications associated with the patient's ge

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145:             which could also apply to family members.
146:         </li>
147:     </ul>
148: </div>
149: </div>
150: </CardContent>
151: </Card>
152: )
153: }

```

■ File: components\admin\gene-results-admin.tsx

```

=====
1: "use client"
2:
3: import { Button } from "@/components/ui/button"
4: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@/components/ui/card"
5: import { Input } from "@/components/ui/input"
6: import { Label } from "@/components/ui/label"
7: import { ScrollArea } from "@/components/ui/scroll-area"
8: import { PlusCircle, Trash2, Save, RotateCcw } from "lucide-react"
9: import type { GeneTestResult } from "@/types/report-types"
10:
11: interface GeneResultsAdminProps {
12:   geneTestResults: GeneTestResult[]
13:   addGeneTestResult: () => void
14:   updateGeneTestResult: (index: number, field: keyof GeneTestResult, value: string) => void
15:   removeGeneTestResult: (index: number) => void
16:   onSave: () => void
17:   onReset: () => void
18: }
19:
20: export default function GeneResultsAdmin({
21:   geneTestResults,
22:   addGeneTestResult,
23:   updateGeneTestResult,
24:   removeGeneTestResult,
25:   onSave,
26:   onReset,
27: }: GeneResultsAdminProps) {
28:   return (
29:     <Card className="shadow-lg border-0 bg-white">
30:       <CardHeader className="bg-gradient-to-r from-indigo-500 to-blue-600 text-white rounded-t-lg">
31:         <CardTitle className="text-2xl">? Gene Test Results</CardTitle>
32:         <CardDescription className="text-indigo-100">Manage the complete list of gene test results</CardDescription>
33:       </CardHeader>
34:       <CardContent className="space-y-6 p-8">
35:         <div className="flex justify-between items-center">
36:           <h3 className="text-lg font-semibold">Gene Test Results ({geneTestResults.length})</h3>
37:           <div className="flex gap-2">
38:             <Button onClick={onReset} variant="outline" size="sm">
39:               <RotateCcw className="h-4 w-4 mr-2" />
40:               Reset
41:             </Button>
42:             <Button onClick={onSave} size="sm">
43:               <Save className="h-4 w-4 mr-2" />
44:               Save Changes
45:             </Button>
46:             <Button onClick={addGeneTestResult} className="bg-indigo-600 hover:bg-indigo-700">
47:               <PlusCircle className="h-4 w-4 mr-2" />
48:               Add Gene Result
49:             </Button>
50:           </div>
51:         </div>
52:
53:         <ScrollArea className="h-96">
54:           <div className="space-y-4">
55:             {geneTestResults.map((result, index) => (
56:               <div key={index} className="border-gray-200 rounded-lg p-4 bg-gray-50">
57:                 <div className="flex justify-between items-start mb-4">
58:                   <h4 className="font-semibold text-gray-800">Gene #{index + 1}</h4>
59:                   <Button onClick={() => removeGeneTestResult(index)} variant="destructive" size="sm">

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60:         <Trash2 className="h-4 w-4" />
61:     </Button>
62: </div>
63: <div className="grid md:grid-cols-3 gap-4">
64:     <div className="space-y-2">
65:         <Label className="text-sm font-medium">Gene Name</Label>
66:         <Input
67:             value={result.geneName}
68:             onChange={(e) => updateGeneTestResult(index, "geneName", e.target.value)}
69:             placeholder="e.g., ALDH2 Aldehyde dehydrogenase 2"
70:             className="border-2 focus:border-indigo-500"
71:         />
72:     </div>
73:     <div className="space-y-2">
74:         <Label className="text-sm font-medium">Variation</Label>
75:         <Input
76:             value={result.variation}
77:             onChange={(e) => updateGeneTestResult(index, "variation", e.target.value)}
78:             placeholder="e.g., G>A"
79:             className="border-2 focus:border-indigo-500 font-mono"
80:         />
81:     </div>
82:     <div className="space-y-2">
83:         <Label className="text-sm font-medium">Result</Label>
84:         <Input
85:             value={result.result}
86:             onChange={(e) => updateGeneTestResult(index, "result", e.target.value)}
87:             placeholder="e.g., GG"
88:             className="border-2 focus:border-indigo-500 font-mono font-bold"
89:         />
90:     </div>
91: </div>
92: </div>
93:     )}}
94: </div>
95: </ScrollArea>
96:
97:     {geneTestResults.length === 0 && (
98:         <div className="text-center py-12 text-gray-500">
99:             <div className="text-6xl mb-4">?</div>
100:            <p className="text-lg mb-4">No gene test results added yet</p>
101:            <Button onClick={addGeneTestResult} className="bg-indigo-600 hover:bg-indigo-700">
102:                <PlusCircle className="h-4 w-4 mr-2" />
103:                Add First Gene Result
104:            </Button>
105:        </div>
106:    )}
107: </CardContent>
108: </Card>
109: )
110: }

```

■ File: components\admin\genes-addiction-admin.tsx

```

=====
1: "use client"
2:
3: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@/components/ui/card"
4: import { Input } from "@/components/ui/input"
5: import { Label } from "@/components/ui/label"
6: import { Textarea } from "@/components/ui/textarea"
7: import { Button } from "@/components/ui/button"
8: import { Save, RotateCcw } from "lucide-react"
9: import type { GenesAndAddiction, AddictionData } from "@/types/report-types"
10:
11: interface GenesAddictionAdminProps {
12:     genesAndAddiction: GenesAndAddiction
13:     updateGenesAndAddiction: (field: keyof GenesAndAddiction, data: Partial<AddictionData>) => void
14:     onSave: () => void
15:     onReset: () => void
16: }
17:

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```

18: export default function GenesAddictionAdmin({
19:   genesAndAddiction,
20:   updateGenesAndAddiction,
21:   onSave,
22:   onReset,
23: }: GenesAddictionAdminProps) {
24:   const renderAddictionField = (field: keyof GenesAndAddiction, data: AddictionData, title: string) => (
25:     <Card key={field} className="border-2 border-purple-100 bg-purple-50/30">
26:       <CardHeader className="pb-3">
27:         <CardTitle className="text-lg text-purple-800">{title}</CardTitle>
28:       </CardHeader>
29:       <CardContent className="space-y-4">
30:         <div className="space-y-2">
31:           <Label className="text-sm font-medium">Tendency</Label>
32:           <Input
33:             value={data.tendency}
34:             onChange={(e) => updateGenesAndAddiction(field, { tendency: e.target.value })}
35:             placeholder="e.g., LOW, NORMAL, HIGH"
36:             className="border-2 focus:border-purple-500"
37:           />
38:         </div>
39:         <div className="space-y-2">
40:           <Label className="text-sm font-medium">Description</Label>
41:           <Textarea
42:             value={data.description}
43:             onChange={(e) => updateGenesAndAddiction(field, { description: e.target.value })}
44:             rows={3}
45:             className="border-2 focus:border-purple-500 text-sm"
46:           />
47:         </div>
48:       </CardContent>
49:     </Card>
50:   )
51:
52:   return (
53:     <Card className="shadow-lg border-0 bg-white">
54:       <CardHeader className="bg-gradient-to-r from-purple-500 to-pink-600 text-white rounded-t-lg">
55:         <CardTitle className="text-2xl">? Genes & Addiction</CardTitle>
56:         <CardDescription className="text-purple-100">
57:           Manage genetic predispositions related to various addiction tendencies
58:         </CardDescription>
59:       </CardHeader>
60:       <CardContent className="space-y-8 p-8">
61:         { /* Action Buttons */ }
62:         <div className="flex justify-end gap-2 mb-6">
63:           <Button onClick={onReset} variant="outline" size="sm">
64:             <RotateCcw className="h-4 w-4 mr-2" />
65:             Reset
66:           </Button>
67:           <Button onClick={onSave} size="sm">
68:             <Save className="h-4 w-4 mr-2" />
69:             Save Changes
70:           </Button>
71:         </div>
72:
73:         { /* Genes & Addiction Fields */ }
74:         <div className="grid md:grid-cols-2 lg:grid-cols-2 gap-6">
75:           {Object.entries(genesAndAddiction).map(([key, item]) =>
76:             renderAddictionField(
77:               key as keyof GenesAndAddiction,
78:               item as AddictionData,
79:               key.replace(/[A-Z])/g, " $1").replace(/^./, (str) => str.toUpperCase()),
80:             ),
81:           )}
82:         </div>
83:
84:         { /* Section Guidelines */ }
85:         <div className="bg-purple-50 border-2 border-purple-200 rounded-lg p-6">
86:           <h4 className="font-semibold text-purple-800 mb-2">? Genes & Addiction Guidelines:</h4>
87:           <div className="text-sm text-purple-700 space-y-2">
88:             <ul className="list-disc list-inside space-y-1">
89:               <li>
90:                 <strong>Alcohol Addiction:</strong> Genetic vulnerability to alcohol dependency.

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91:         </li>
92:     </li>
93:     <strong>Smoking Addiction:</strong> Genetic susceptibility to nicotine addiction.
94: </li>
95:     <li>
96:         <strong>Snacking Habits:</strong> Genetic tendency towards frequent snacking or specific fo
97:     </li>
98:     <li>
99:         <strong>Altruism:</strong> Genetic predisposition towards prosocial behaviors and helping o
100:    </li>
101:    <li>Genetics influence vulnerability, but environmental factors and lifestyle choices are cru
102:    <li>This information can help tailor prevention strategies and personalized treatment plans.<
103:    </ul>
104:  </div>
105: </div>
106: </CardContent>
107: </Card>
108: )
109: }

```

■ File: components\admin\genetic-parameters-admin.tsx

```

=====
1: "use client";
2:
3: import React, { useCallback, useEffect, useState } from "react";
4: import { Button } from "@/components/ui/button";
5: import { Input } from "@/components/ui/input";
6: import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card";
7: import { Textarea } from "@/components/ui/textarea";
8: import {
9:   Select,
10:   SelectContent,
11:   SelectItem,
12:   SelectTrigger,
13:   SelectValue,
14: } from "@/components/ui/select";
15: import Image from "next/image";
16: import { toast } from "sonner";
17: import { X, Plus, Save, Upload, Edit3, FileImage } from "lucide-react";
18: import type {
19:   GeneticParameter,
20:   CategoryData,
21:   ReportData,
22:   ApiResponse,
23: } from "@/types/report-types";
24:
25: // Custom hook for data fetching
26:
27: const useReportData = () => {
28:   const [data, setData] = useState<ReportData | null>(null);
29:   const [loading, setLoading] = useState<boolean>(true);
30:   const [error, setError] = useState<string | null>(null);
31:
32:   const fetchData = useCallback(async (): Promise<void> => {
33:     try {
34:       setLoading(true);
35:       const response = await fetch("/api/report-data");
36:
37:       if (!response.ok) {
38:         throw new Error(`HTTP error! status: ${response.status}`);
39:       }
40:
41:       const jsonData: ReportData = await response.json();
42:
43:       if (!jsonData.categories || !Array.isArray(jsonData.categories)) {
44:         throw new Error("Invalid data structure: categories must be an array");
45:       }
46:
47:       setData(jsonData);
48:       setError(null);
49:     } catch (err) {

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```

50:         const errorMessage =
51:             err instanceof Error ? err.message : "Unknown error occurred";
52:         setError(errorMessage);
53:         console.error("Failed to fetch report data:", err);
54:         toast.error(`Failed to load data: ${errorMessage}`);
55:     } finally {
56:         setLoading(false);
57:     }
58: }, []);
59:
60: return { data, loading, error, refetch: fetchData };
61: };
62:
63: export default function GeneticParametersAdmin(): JSX.Element {
64:     // State with proper TypeScript types
65:     const [categories, setCategories] = useState<CategoryData[]>([]);
66:     const [geneticParameters, setGeneticParameters] = useState<
67:         GeneticParameter[]
68:     >([]);
69:     const [isSaving, setIsSaving] = useState<boolean>(false);
70:     const [imageErrors, setImageErrors] = useState<Set<string>>(new Set());
71:     const [isEditing, setIsEditing] = useState<boolean>(false);
72:     const [selectedCategory, setSelectedCategory] = useState<string>("all");
73:
74:     // Use custom hook
75:     const { data, loading, error, refetch } = useReportData();
76:
77:     // Initialize data when fetched
78:     useEffect(() => {
79:         if (data) {
80:             setCategories(data.categories || []);
81:             setGeneticParameters(data.geneticParameters || []);
82:         }
83:     }, [data]);
84:
85:     // Initial data fetch
86:     useEffect(() => {
87:         refetch();
88:     }, [refetch]);
89:
90:     // Type-safe event handlers
91:     const handleCategoryChange = (
92:         categoryIndex: number,
93:         field: keyof CategoryData,
94:         value: string | boolean | number
95:     ): void => {
96:         const updated = [...categories];
97:         (updated[categoryIndex] as any)[field] = value;
98:         setCategories(updated);
99:     };
100:
101:     const handleParameterChange = (
102:         categoryIndex: number,
103:         paramIndex: number,
104:         value: string
105:     ): void => {
106:         const updated = [...categories];
107:         updated[categoryIndex].parameters[paramIndex] = value;
108:         setCategories(updated);
109:     };
110:
111:     const handleImageError = (categoryId: string): void => {
112:         const newErrors = new Set(imageErrors);
113:         newErrors.add(categoryId);
114:         setImageErrors(newErrors);
115:     };
116:
117:     const handleFileChange = async (
118:         categoryIndex: number,
119:         file: File
120:     ): Promise<void> => {
121:         const formData = new FormData();
122:         formData.append("file", file);

```

```

123:
124:     try {
125:         const res = await fetch("/api/upload-image", {
126:             method: "POST",
127:             body: formData,
128:         });
129:
130:         const result = await res.json();
131:
132:         if (result.success && result.url) {
133:             handleCategoryChange(categoryIndex, "imageUrl", result.url);
134:
135:             const categoryId = categories[categoryIndex].id;
136:             const newErrors = new Set(imageErrors);
137:             newErrors.delete(categoryId);
138:             setImageErrors(newErrors);
139:         } else {
140:             toast.error(result.error || "Upload failed");
141:         }
142:     } catch (err) {
143:         console.error("Upload error:", err);
144:         toast.error("Image upload failed");
145:     }
146: };
147:
148: const addCategory = (): void => {
149:     const newCategory: CategoryData = {
150:         id: `category_${Date.now()}`,
151:         category: "NEW CATEGORY",
152:         imageUrl: "",
153:         description: "",
154:         parameters: Array(21).fill(""),
155:         isActive: true,
156:         order: categories.length + 1,
157:     };
158:
159:     setCategories([...categories, newCategory]);
160: };
161:
162: const removeCategory = async (categoryId: string): Promise<void> => {
163:     if (!window.confirm("Are you sure you want to remove this category?"))
164:         return;
165:
166:     const updated = categories.filter((cat) => cat.id !== categoryId);
167:     setCategories(updated);
168:
169:     if (selectedCategory === categoryId) {
170:         setSelectedCategory("all");
171:     }
172:
173:     try {
174:         const dataToSave = {
175:             ...data,
176:             categories: updated,
177:             metadata: {
178:                 lastUpdated: new Date().toISOString(),
179:                 version: "1.0.0",
180:                 totalCategories: updated.length,
181:                 totalParameters: updated.reduce(
182:                     (sum, cat) => sum + cat.parameters.filter((p) => p.trim()).length,
183:                     0
184:                 ),
185:             },
186:         };
187:
188:         const response = await fetch("/api/report-data", {
189:             method: "POST",
190:             headers: {
191:                 "Content-Type": "application/json",
192:             },
193:             body: JSON.stringify(dataToSave),
194:         });
195:

```

```

196:         if (response.ok) {
197:             toast.success("Category deleted and changes saved");
198:         } else {
199:             const result = await response.json();
200:             toast.error(result.error || "Failed to save changes");
201:         }
202:     } catch (error) {
203:         console.error("Failed to save after delete:", error);
204:         toast.error("An error occurred while saving changes");
205:     }
206: };
207:
208: const addParameter = (categoryIndex: number): void => {
209:     const updated = [...categories];
210:     updated[categoryIndex].parameters.push("");
211:     setCategories(updated);
212: };
213:
214: const removeParameter = (categoryIndex: number, paramIndex: number): void => {
215:     const updated = [...categories];
216:     updated[categoryIndex].parameters.splice(paramIndex, 1);
217:     setCategories(updated);
218: };
219:
220: const saveData = async (): Promise<void> => {
221:     setIsSaving(true);
222:
223:     try {
224:         if (!data) throw new Error("No base report data available");
225:
226:         const dataToSave = {
227:             ...data,
228:             categories,
229:             geneticParameters,
230:             metadata: {
231:                 lastUpdated: new Date().toISOString(),
232:                 version: "1.0.0",
233:                 totalCategories: categories.length,
234:                 totalParameters: categories.reduce(
235:                     (sum, cat) => sum + cat.parameters.filter((p) => p.trim()).length,
236:                     0
237:                 ),
238:             },
239:         };
240:
241:         const response = await fetch("/api/report-data", {
242:             method: "POST",
243:             headers: {
244:                 "Content-Type": "application/json",
245:             },
246:             body: JSON.stringify(dataToSave),
247:         });
248:
249:         const result: ApiResponse = await response.json();
250:
251:         if (response.ok && result.success !== false) {
252:             toast.success("Data saved successfully!");
253:             setIsEditing(false);
254:         } else {
255:             throw new Error(result.error || "Failed to save data");
256:         }
257:     } catch (err) {
258:         const errorMessage =
259:             err instanceof Error ? err.message : "Unknown error occurred";
260:         console.error("Error saving data:", err);
261:         toast.error(`Save failed: ${errorMessage}`);
262:     } finally {
263:         setIsSaving(false);
264:     }
265: };
266:
267: const exportData = (): void => {
268:     const dataToExport = { categories, geneticParameters };

```



```

269:     const blob = new Blob([JSON.stringify(dataToExport, null, 2)], {
270:       type: "application/json",
271:     });
272:     const url = URL.createObjectURL(blob);
273:     const a = document.createElement("a");
274:     a.href = url;
275:     a.download = `report-data-${new Date().toISOString().split("T")[0]}.json`;
276:     document.body.appendChild(a);
277:     a.click();
278:     document.body.removeChild(a);
279:     URL.revokeObjectURL(url);
280:   };
281:
282:   const filteredCategories =
283:     selectedCategory === "all"
284:       ? categories
285:       : categories.filter((cat) => cat.id === selectedCategory);
286:
287:   // Loading state
288:   if (loading) {
289:     return (
290:       <div className="flex justify-center items-center min-h-[400px]">
291:         <div className="text-center">
292:           <div className="animate-spin rounded-full h-12 w-12 border-b-2 border-blue-600 mx-auto mb-4"></div>
293:           <p className="text-gray-500">Loading genetic parameters...</p>
294:         </div>
295:       </div>
296:     );
297:   }
298:
299:   // Error state
300:   if (error) {
301:     return (
302:       <div className="flex justify-center items-center min-h-[400px]">
303:         <Card className="w-full max-w-md">
304:           <CardContent className="p-6 text-center">
305:             <div className="text-red-500 mb-4">
306:               <X size={48} className="mx-auto" />
307:             </div>
308:             <h3 className="text-lg font-semibold mb-2">Error Loading Data</h3>
309:             <p className="text-gray-600 mb-4">{error}</p>
310:             <Button onClick={refetch}>Try Again</Button>
311:           </CardContent>
312:         </Card>
313:       </div>
314:     );
315:   }
316:
317:   return (
318:     <div className="w-full max-w-7xl mx-auto p-4">
319:       <Card className="mb-6">
320:         <CardHeader>
321:           <div className="flex flex-col lg:flex-row lg:items-center justify-between gap-4">
322:             <div className="flex-1">
323:               <CardTitle className="text-xl md:text-2xl font-bold text-gray-800">
324:                 Genetic Parameters Table of Contents
325:               </CardTitle>
326:               <p className="text-sm text-gray-600 mt-1">
327:                 ({categories.length} categories, { " " }
328:                 {categories.reduce(
329:                   (sum, cat) =>
330:                     sum + cat.parameters.filter((p) => p.trim()).length,
331:                   0
332:                 )}{ " " }
333:                 parameters)
334:               </p>
335:             </div>
336:
337:             <div className="flex flex-col sm:flex-row gap-2">
338:               <Select
339:                 value={selectedCategory}
340:                 onChange={setSelectedCategory}
341:               >

```

[illegible]

```

415:         onChange={(e) =>
416:             handleCategoryChange(
417:                 actualIndex,
418:                 "category",
419:                 e.target.value
420:             )
421:         }
422:         className="text-center font-bold text-sm bg-white"
423:         placeholder="Category Name"
424:     />
425:
426:     <Textarea
427:         value={category.description || ""}
428:         onChange={(e) =>
429:             handleCategoryChange(
430:                 actualIndex,
431:                 "description",
432:                 e.target.value
433:             )
434:         }
435:         className="text-xs bg-white resize-none h-16"
436:         placeholder="Category description..."
437:     />
438:
439:     <div className="flex flex-col items-center space-y-2">
440:         {category.imageUrl &&
441:             !imageErrors.has(category.id) ? (
442:                 <Image
443:                     src={category.imageUrl}
444:                     alt={category.category}
445:                     width={60}
446:                     height={60}
447:                     className="rounded-full border object-cover"
448:                     onError={() =>
449:                         handleImageError(category.id)
450:                     }
451:                 />
452:             ) : (
453:                 <div className="w-[60px] h-[60px] bg-white rounded-full border-2 border-d
454:                     <Upload
455:                         size={20}
456:                         className="text-gray-400"
457:                     />
458:                 </div>
459:             )}
460:
461:         <label className="cursor-pointer">
462:             <input
463:                 type="file"
464:                 accept="image/*"
465:                 className="hidden"
466:                 onChange={(e) => {
467:                     const file = e.target.files?.[0];
468:                     if (file) {
469:                         handleFileChange(actualIndex, file);
470:                     }
471:                 }}
472:             />
473:             <div className="text-xs text-blue-600 hover:text-blue-800 underline">
474:                 Upload
475:             </div>
476:         </label>
477:     </div>
478:
479:     <Button
480:         variant="destructive"
481:         size="sm"
482:         onClick={() => removeCategory(category.id)}
483:         className="gap-1 w-full"
484:     >
485:         Remove
486:     </Button>
487: </div>

```



```

561:         variant="ghost"
562:         size="sm"
563:         onClick={() =>
564:             removeParameter(
565:                 actualIndex,
566:                 paramIndex
567:             )
568:         }
569:         className="h-7 w-7 p-0 opacity-0 group-hover:opacity-100 tr
570:     >
571:         <X size={12} />
572:     </Button>
573:   )}
574: </div>
575: ) : (
576:   parameter && (
577:     <span className="text-sm text-gray-700">
578:       {parameter}
579:     </span>
580:   )
581: )}
582: </td>
583:   );
584:   }}
585: </tr>
586:   )}
587: </tbody>
588: </table>
589:
590: {isEditing && (
591:   <Button
592:     variant="ghost"
593:     size="sm"
594:     onClick={() => addParameter(actualIndex)}
595:     className="mt-2 w-full text-xs text-gray-500 hover:text-gray-700"
596:   >
597:     <Plus size={12} className="mr-1" />
598:     Add Parameter
599:   </Button>
600:   )}
601: </div>
602: </div>
603: </div>
604: </div>
605:   );
606:   }}
607: </div>
608: </div>
609:
610: {categories.length === 0 && (
611:   <div className="text-center py-12">
612:     <div className="text-gray-400 mb-4">
613:       <FileImage size={48} className="mx-auto" />
614:     </div>
615:     <h3 className="text-lg font-semibold text-gray-700 mb-2">
616:       No Categories Found
617:     </h3>
618:     <p className="text-gray-500 mb-4">
619:       Get started by adding your first category
620:     </p>
621:     <Button onClick={addCategory} className="gap-2">
622:       <Plus size={16} />
623:       Add First Category
624:     </Button>
625:   </div>
626:   )}
627: </CardContent>
628: </Card>
629: </div>
630:   );
631: }

```

■ File: components\admin\import-export-admin.tsx

```
=====
1: "use client"
2:
3: import type React from "react"
4: import { Button } from "@components/ui/button"
5: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@components/ui/card"
6: import { Label } from "@components/ui/label"
7: import { Download, Upload } from "lucide-react"
8: import type { ComprehensiveReportData } from "@types/report-types"
9: import { useToast } from "@components/ui/use-toast"
10:
11: interface ImportExportAdminProps {
12:   reportData: ComprehensiveReportData
13:   setReportData: (data: ComprehensiveReportData) => void
14: }
15:
16: export default function ImportExportAdmin({ reportData, setReportData }: ImportExportAdminProps) {
17:   const { toast } = useToast()
18:
19:   const exportData = () => {
20:     try {
21:       const dataStr = JSON.stringify(reportData, null, 2)
22:       const dataBlob = new Blob([dataStr], { type: "application/json" })
23:       const url = URL.createObjectURL(dataBlob)
24:       const link = document.createElement("a")
25:       link.href = url
26:       link.download = `genomics-report-${new Date().toISOString().split("T")[0]}.json`
27:       link.click()
28:       URL.revokeObjectURL(url)
29:       toast({
30:         title: "Export Successful!",
31:         description: "Report data has been downloaded as a JSON file.",
32:       })
33:     } catch (error) {
34:       console.error("Error exporting data:", error)
35:       toast({
36:         title: "Export Failed!",
37:         description: "There was an error exporting the data. Please try again.",
38:         variant: "destructive",
39:       })
40:     }
41:   }
42:
43:   const importData = (event: React.ChangeEvent<HTMLInputElement>) => {
44:     const file = event.target.files?.[0]
45:     if (file) {
46:       const reader = new FileReader()
47:       reader.onload = (e) => {
48:         try {
49:           const importedData = JSON.parse(e.target?.result as string) as ComprehensiveReportData
50:           // Basic validation to ensure it's a report data structure
51:           if (importedData && importedData.patientInfo && importedData.content) {
52:             setReportData(importedData)
53:             toast({
54:               title: "Import Successful!",
55:               description: "Report data has been imported successfully.",
56:             })
57:           } else {
58:             throw new Error("Invalid file format or missing essential data.")
59:           }
60:         } catch (error: any) {
61:           console.error("Error importing data:", error)
62:           toast({
63:             title: "Import Failed!",
64:             description: `Error importing data: ${error.message || "Please check the file format."}`,
65:             variant: "destructive",
66:           })
67:         }
68:       }
69:       reader.readAsText(file)
70:     }
71:   }
=====
```

```

72:
73:   return (
74:     <Card className="shadow-lg border-0 bg-white">
75:       <CardHeader className="bg-gradient-to-r from-orange-500 to-red-600 text-white rounded-t-lg">
76:         <CardTitle className="text-2xl">? Import/Export Data</CardTitle>
77:         <CardDescription className="text-orange-100">Backup and restore your report data</CardDescription>
78:       </CardHeader>
79:       <CardContent className="space-y-8 p-8">
80:         <div className="grid md:grid-cols-2 gap-8">
81:           <div className="space-y-4">
82:             <h3 className="text-xl font-semibold text-gray-800">? Export Data</h3>
83:             <p className="text-gray-600">
84:               Download your current report configuration as a JSON file for backup or sharing.
85:             </p>
86:             <Button onClick={exportData} className="w-full bg-orange-600 hover:bg-orange-700">
87:               <Download className="h-4 w-4 mr-2" />
88:               Export Current Data
89:             </Button>
90:           </div>
91:
92:           <div className="space-y-4">
93:             <h3 className="text-xl font-semibold text-gray-800">? Import Data</h3>
94:             <p className="text-gray-600">Upload a previously exported JSON file to restore report configura
95:             <div className="border-2 border-dashed border-gray-300 rounded-lg p-6 text-center">
96:               <input type="file" accept=".json" onChange={importData} className="hidden" id="import-file" />
97:               <Label htmlFor="import-file" className="cursor-pointer">
98:                 <Upload className="h-8 w-8 mx-auto mb-2 text-gray-400" />
99:                 <span className="text-sm text-gray-600">Click to select JSON file</span>
100:               </Label>
101:             </div>
102:           </div>
103:         </div>
104:
105:         <div className="bg-yellow-50 border-2 border-yellow-200 rounded-lg p-6">
106:           <h4 className="font-semibold text-yellow-800 mb-2">?? Important Notes:</h4>
107:           <ul className="text-sm text-yellow-700 space-y-1">
108:             <li>? Importing data will completely replace your current configuration</li>
109:             <li>? Always export your current data before importing new data</li>
110:             <li>? Only import JSON files that were exported from this system</li>
111:             <li>? Make sure to save your changes after importing</li>
112:           </ul>
113:         </div>
114:       </CardContent>
115:     </Card>
116:   )
117: }

```

File: components\admin\lifestyle-conditions-admin.tsx

```

=====
1: "use client"
2:
3: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@components/ui/card"
4: import { Label } from "@components/ui/label"
5: import { Select, SelectContent, SelectItem, SelectTrigger, SelectValue } from "@components/ui/select"
6: import { Button } from "@components/ui/button"
7: import { Save, RotateCcw } from "lucide-react"
8: import { useState } from "react"
9: import type { LifestyleConditions, HealthConditionStatus } from "@types/report-types"
10:
11: interface LifestyleConditionsAdminProps {
12:   lifestyleConditions: LifestyleConditions
13:   updateLifestyleCondition: (
14:     section: keyof LifestyleConditions,
15:     field: string,
16:     status: HealthConditionStatus["status"],
17:   ) => void
18:   onSave: () => void
19:   onReset: () => void
20: }
21:
22: export default function LifestyleConditionsAdmin({

```

```

23:   lifestyleConditions,
24:   updateLifestyleCondition,
25:   onSave,
26:   onReset,
27: }: LifestyleConditionsAdminProps) {
28:   const [activeSection, setActiveSection] = useState<keyof LifestyleConditions>("heartVascularHealth")
29:
30:   const renderConditionField = (
31:     section: keyof LifestyleConditions,
32:     field: string,
33:     data: HealthConditionStatus,
34:     title: string,
35:   ) => (
36:     <div key={field} className="grid grid-cols-3 gap-4 items-center border-b pb-2">
37:       <Label className="font-medium text-gray-700">{title}</Label>
38:       <div className="col-span-2">
39:         <Select
40:           value={data.status}
41:           onChange={(value: HealthConditionStatus["status"]) => updateLifestyleCondition(section, field, value)}
42:         >
43:           <SelectTrigger className="border-2 focus:border-yellow-500">
44:             <SelectValue />
45:           </SelectTrigger>
46:           <SelectContent>
47:             <SelectItem value="strength">Strength (?)</SelectItem>
48:             <SelectItem value="improvement">Improvement Needed (?)</SelectItem>
49:           </SelectContent>
50:         </Select>
51:       </div>
52:     </div>
53:   )
54:
55:   const getSectionTitle = (section: keyof LifestyleConditions) => {
56:     switch (section) {
57:       case "heartVascularHealth":
58:         return "?? Heart & Vascular Health"
59:       case "diabetesity":
60:         return "? Diabetesity (Diabetes & Obesity)"
61:       case "liverHealth":
62:         return "? Liver Health"
63:       case "boneHealth":
64:         return "? Bone Health"
65:       case "gutHealth":
66:         return "? Gut Health"
67:       case "hormoneSystem":
68:         return "? Hormone System"
69:       default:
70:         return section
71:     }
72:   }
73:
74:   const getSectionIcon = (section: keyof LifestyleConditions) => {
75:     switch (section) {
76:       case "heartVascularHealth":
77:         return "??"
78:       case "diabetesity":
79:         return "?"
80:       case "liverHealth":
81:         return "?"
82:       case "boneHealth":
83:         return "?"
84:       case "gutHealth":
85:         return "?"
86:       case "hormoneSystem":
87:         return "?"
88:       default:
89:         return "?"
90:     }
91:   }
92:
93:   return (
94:     <Card className="shadow-lg border-0 bg-white">
95:       <CardHeader className="bg-gradient-to-r from-yellow-500 to-orange-600 text-white rounded-t-lg">

```



```

96:         <CardTitle className="text-2xl">? Lifestyle Conditions</CardTitle>
97:         <CardDescription className="text-yellow-100">
98:             Manage genetic predispositions for common lifestyle-related health conditions
99:         </CardDescription>
100:     </CardHeader>
101:     <CardContent className="space-y-8 p-8">
102:         { /* Action Buttons */ }
103:         <div className="flex justify-between items-center">
104:             <div className="flex gap-2 flex-wrap">
105:                 {(Object.keys(lifestyleConditions) as Array<keyof LifestyleConditions>).map((section) => (
106:                     <Button
107:                         key={section}
108:                         variant={activeSection === section ? "default" : "outline"}
109:                         size="sm"
110:                         onClick={() => setActiveSection(section)}
111:                         className="flex items-center gap-2"
112:                     >
113:                         <span>{getSectionIcon(section)}</span>
114:                         <span className="capitalize">{section.replace(/[A-Z]/g, " $1")}</span>
115:                     </Button>
116:                 ))}
117:             </div>
118:             <div className="flex gap-2">
119:                 <Button onClick={onReset} variant="outline" size="sm">
120:                     <RotateCcw className="h-4 w-4 mr-2" />
121:                     Reset
122:                 </Button>
123:                 <Button onClick={onSave} size="sm">
124:                     <Save className="h-4 w-4 mr-2" />
125:                     Save Changes
126:                 </Button>
127:             </div>
128:         </div>
129:
130:         { /* Section Content */ }
131:         <div className="space-y-6">
132:             <h3 className="text-xl font-semibold text-gray-800 border-b-2 border-yellow-200 pb-2">
133:                 {getSectionTitle(activeSection)}
134:             </h3>
135:
136:             <div className="grid md:grid-cols-2 gap-6">
137:                 {Object.entries(lifestyleConditions[activeSection]).map(([key, item]) =>
138:                     renderConditionField(
139:                         activeSection,
140:                         key,
141:                         item as HealthConditionStatus,
142:                         key.replace(/[A-Z]/g, " $1").replace(/^../, (str) => str.toUpperCase()),
143:                     ),
144:                 )}
145:             </div>
146:         </div>
147:
148:         { /* Section Guidelines */ }
149:         <div className="bg-yellow-50 border-2 border-yellow-200 rounded-lg p-6">
150:             <h4 className="font-semibold text-yellow-800 mb-2">? Lifestyle Conditions Guidelines:</h4>
151:             <div className="text-sm text-yellow-700 space-y-2">
152:                 <ul className="list-disc list-inside space-y-1">
153:                     <li>
154:                         <strong>Strength (?):</strong> Indicates a genetic predisposition that is favorable or protective
155:                         against the condition.
156:                     </li>
157:                     <li>
158:                         <strong>Improvement Needed (?):</strong> Indicates a genetic predisposition that suggests a
159:                         or vulnerability to the condition, requiring proactive lifestyle interventions.
160:                     </li>
161:                     <li>
162:                         This section highlights areas where personalized interventions (diet, exercise, screenings)
163:                         impactful.
164:                     </li>
165:                     <li>Genetic predispositions are not deterministic; lifestyle and environment play crucial roles.
166:                     </li>
167:                 </ul>
168:             </div>
169:         </div>

```

```

169:
170:     { /* Summary Statistics */ }
171:     <div className="grid md:grid-cols-2 gap-4">
172:         <div className="bg-green-50 border border-green-200 rounded-lg p-4 text-center">
173:             <div className="text-2xl font-bold text-green-600">
174:                 {
175:                     Object.values(lifestyleConditions[activeSection]).filter((item: any) => item.status === "st
176:                 }.length
177:             }
178:         </div>
179:         <div className="text-sm text-green-700">Your Strengths</div>
180:     </div>
181:     <div className="bg-red-50 border border-red-200 rounded-lg p-4 text-center">
182:         <div className="text-2xl font-bold text-red-600">
183:             {
184:                 Object.values(lifestyleConditions[activeSection]).filter((item: any) => item.status === "im
185:             }.length
186:         }
187:     </div>
188:     <div className="text-sm text-red-700">Improvement Needed</div>
189: </div>
190: </div>
191: </CardContent>
192: </Card>
193: )
194: }

```

■ File: components\admin\metabolic-core-admin.tsx

```

=====
1: "use client"
2:
3: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@/components/ui/card"
4: import { Input } from "@/components/ui/input"
5: import { Label } from "@/components/ui/label"
6: import { Textarea } from "@/components/ui/textarea"
7: import { Button } from "@/components/ui/button"
8: import { Badge } from "@/components/ui/badge"
9: import { Save, RotateCcw, Plus, Trash2, Copy } from "lucide-react"
10: import { useState } from "react"
11: import type { MetabolicCore, MetabolicGeneData } from "@/types/report-types"
12:
13: interface MetabolicCoreAdminProps {
14:     metabolicCore: MetabolicCore
15:     updateMetabolicCore: (field: keyof MetabolicCore, data: Partial<MetabolicGeneData>) => void
16:     onSave: () => void
17:     onReset: () => void
18: }
19:
20: export default function MetabolicCoreAdmin({
21:     metabolicCore,
22:     updateMetabolicCore,
23:     onSave,
24:     onReset,
25: }: MetabolicCoreAdminProps) {
26:     const [searchTerm, setSearchTerm] = useState("")
27:
28:     const metabolicAreas = Object.keys(metabolicCore) as Array<keyof MetabolicCore>
29:
30:     const filteredAreas = metabolicAreas.filter((area) => {
31:         const data = metabolicCore[area]
32:         const matchesSearch =
33:             area.toLowerCase().includes(searchTerm.toLowerCase()) ||
34:             data.impact.toLowerCase().includes(searchTerm.toLowerCase()) ||
35:             data.advice.toLowerCase().includes(searchTerm.toLowerCase()) ||
36:             data.genes.some((gene) => gene.toLowerCase().includes(searchTerm.toLowerCase()))
37:         return matchesSearch
38:     })
39:
40:     const getImpactColor = (impact: string) => {
41:         if (impact.toLowerCase().includes("high") || impact.toLowerCase().includes("increased")) {
42:             return "bg-red-100 border-red-300 text-red-800"

```

```

43:     }
44:     if (impact.toLowerCase().includes("low") || impact.toLowerCase().includes("reduced")) {
45:         return "bg-green-100 border-green-300 text-green-800"
46:     }
47:     if (
48:         impact.toLowerCase().includes("normal") ||
49:         impact.toLowerCase().includes("average") ||
50:         impact.toLowerCase().includes("balanced")
51:     ) {
52:         return "bg-blue-100 border-blue-300 text-blue-800"
53:     }
54:     return "bg-gray-100 border-gray-300 text-gray-800"
55: }
56:
57: const getImpactIcon = (impact: string) => {
58:     if (impact.toLowerCase().includes("high") || impact.toLowerCase().includes("increased")) {
59:         return "???"
60:     }
61:     if (impact.toLowerCase().includes("low") || impact.toLowerCase().includes("reduced")) {
62:         return "???"
63:     }
64:     if (
65:         impact.toLowerCase().includes("normal") ||
66:         impact.toLowerCase().includes("average") ||
67:         impact.toLowerCase().includes("balanced")
68:     ) {
69:         return "???"
70:     }
71:     return "???"
72: }
73:
74: const addGene = (area: keyof MetabolicCore) => {
75:     const currentGenes = metabolicCore[area].genes
76:     updateMetabolicCore(area, { genes: [...currentGenes, ""] })
77: }
78:
79: const removeGene = (area: keyof MetabolicCore, index: number) => {
80:     const currentGenes = metabolicCore[area].genes
81:     const newGenes = currentGenes.filter((_, i) => i !== index)
82:     updateMetabolicCore(area, { genes: newGenes })
83: }
84:
85: const updateGene = (area: keyof MetabolicCore, index: number, value: string) => {
86:     const currentGenes = [...metabolicCore[area].genes]
87:     currentGenes[index] = value
88:     updateMetabolicCore(area, { genes: currentGenes })
89: }
90:
91: const copyToClipboard = (text: string) => {
92:     navigator.clipboard.writeText(text)
93:     // You could add a toast notification here
94: }
95:
96: return (
97:     <Card className="shadow-lg border-0 bg-white">
98:         <CardHeader className="bg-gradient-to-r from-purple-500 to-indigo-600 text-white rounded-t-lg">
99:             <CardTitle className="text-2xl">? Metabolic Core Analysis</CardTitle>
100:             <CardDescription className="text-purple-100">
101:                 Comprehensive gene analysis and metabolic impacts - The STAR feature of genomics reporting
102:             </CardDescription>
103:         </CardHeader>
104:         <CardContent className="space-y-8 p-8">
105:             { /* Action Bar */ }
106:             <div className="flex flex-col md:flex-row justify-between items-start md:items-center gap-4">
107:                 <div className="flex-1">
108:                     <Input
109:                         placeholder="Search metabolic areas or impacts..."
110:                         value={searchTerm}
111:                         onChange={(e) => setSearchTerm(e.target.value)}
112:                         className="border-2 focus:border-purple-500"
113:                     />
114:                 </div>
115:                 <div className="flex gap-2">

```

```

116:         <Button onClick={onReset} variant="outline" size="sm">
117:             <RotateCcw className="h-4 w-4 mr-2" />
118:             Reset
119:         </Button>
120:         <Button onClick={onSave} size="sm">
121:             <Save className="h-4 w-4 mr-2" />
122:             Save Changes
123:         </Button>
124:     </div>
125: </div>
126:
127: { /* Summary Statistics */ }
128: <div className="grid md:grid-cols-4 gap-4">
129:     <div className="bg-red-50 border border-red-200 rounded-lg p-4 text-center">
130:         <div className="text-2xl font-bold text-red-600">
131:             {
132:                 metabolicAreas.filter(
133:                     (area) =>
134:                         metabolicCore[area].impact.toLowerCase().includes("high") ||
135:                         metabolicCore[area].impact.toLowerCase().includes("increased"),
136:                 ).length
137:             }
138:         </div>
139:         <div className="text-sm text-red-700">High Risk Areas</div>
140:     </div>
141:     <div className="bg-green-50 border border-green-200 rounded-lg p-4 text-center">
142:         <div className="text-2xl font-bold text-green-600">
143:             {
144:                 metabolicAreas.filter(
145:                     (area) =>
146:                         metabolicCore[area].impact.toLowerCase().includes("normal") ||
147:                         metabolicCore[area].impact.toLowerCase().includes("low") ||
148:                         metabolicCore[area].impact.toLowerCase().includes("reduced") ||
149:                         metabolicCore[area].impact.toLowerCase().includes("balanced"),
150:                 ).length
151:             }
152:         </div>
153:         <div className="text-sm text-green-700">Normal/Low Risk</div>
154:     </div>
155:     <div className="bg-blue-50 border border-blue-200 rounded-lg p-4 text-center">
156:         <div className="text-2xl font-bold text-blue-600">
157:             {metabolicAreas.reduce((total, area) => total + metabolicCore[area].genes.length, 0)}
158:         </div>
159:         <div className="text-sm text-blue-700">Total Genes</div>
160:     </div>
161:     <div className="bg-purple-50 border border-purple-200 rounded-lg p-4 text-center">
162:         <div className="text-2xl font-bold text-purple-600">{metabolicAreas.length}</div>
163:         <div className="text-sm text-purple-700">Metabolic Areas</div>
164:     </div>
165: </div>
166:
167: { /* Metabolic Areas */ }
168: <div className="space-y-6">
169:     {filteredAreas.map((area) => {
170:         const data = metabolicCore[area]
171:         return (
172:             <Card key={area} className="border-2 border-purple-100 bg-purple-50/30">
173:                 <CardHeader className="pb-4">
174:                     <div className="flex items-center justify-between">
175:                         <CardTitle className="text-lg text-purple-800 flex items-center gap-2">
176:                             <span>{getImpactIcon(data.impact)}</span>
177:                             <span>{area.replace(/[A-Z]/g, " $1").replace(/^./, (str) => str.toUpperCase())}</span>
178:                         </CardTitle>
179:                         <Badge className={` ${getImpactColor(data.impact)} border`} >{data.impact}</Badge>
180:                     </div>
181:                 </CardHeader>
182:                 <CardContent className="space-y-6">
183:                     { /* Genes Section */ }
184:                     <div className="space-y-3">
185:                         <div className="flex items-center justify-between">
186:                             <Label className="text-sm font-semibold">Genes (Alleles)</Label>
187:                             <Button onClick={() => addGene(area)} size="sm" variant="outline" className="text-xs">
188:                                 <Plus className="h-3 w-3 mr-1" />

```

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189:         Add Gene
190:     </Button>
191: </div>
192: <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-2">
193:     {data.genes.map((gene, index) => (
194:         <div key={index} className="flex gap-2">
195:             <Input
196:                 value={gene}
197:                 onChange={(e) => updateGene(area, index, e.target.value)}
198:                 placeholder="e.g., MTHFR (A>C)"
199:                 className="border-2 focus:border-purple-500 font-mono text-sm"
200:             />
201:             <Button
202:                 onClick={() => removeGene(area, index)}
203:                 size="sm"
204:                 variant="destructive"
205:                 className="px-2"
206:             >
207:                 <Trash2 className="h-3 w-3" />
208:             </Button>
209:         </div>
210:     )]}
211: </div>
212: </div>
213:
214: { /* Genotype */}
215: <div className="space-y-2">
216:     <Label className="text-sm font-semibold">Your Genotype</Label>
217:     <div className="flex gap-2">
218:         <Input
219:             value={data.genotype}
220:             onChange={(e) => updateMetabolicCore(area, { genotype: e.target.value })}
221:             placeholder="e.g., TT, GG, GG, GG, CC"
222:             className="border-2 focus:border-purple-500 font-mono"
223:         />
224:         <Button
225:             onClick={() => copyToClipboard(data.genotype)}
226:             size="sm"
227:             variant="outline"
228:             className="px-3"
229:         >
230:             <Copy className="h-4 w-4" />
231:         </Button>
232:     </div>
233: </div>
234:
235: { /* Impact */}
236: <div className="space-y-2">
237:     <Label className="text-sm font-semibold">Genetic Impact</Label>
238:     <Input
239:         value={data.impact}
240:         onChange={(e) => updateMetabolicCore(area, { impact: e.target.value })}
241:         placeholder="e.g., NORMAL METHYLATION"
242:         className="border-2 focus:border-purple-500 font-semibold"
243:     />
244: </div>
245:
246: { /* Advice */}
247: <div className="space-y-2">
248:     <Label className="text-sm font-semibold">Advice & Recommendations</Label>
249:     <Textarea
250:         value={data.advice}
251:         onChange={(e) => updateMetabolicCore(area, { advice: e.target.value })}
252:         rows={3}
253:         placeholder="Detailed advice based on genetic analysis..."
254:         className="border-2 focus:border-purple-500 text-sm"
255:     />
256: </div>
257: </CardContent>
258: </Card>
259: )
260: })}
261: </div>

```

```

262:
263:     {filteredAreas.length === 0 && (
264:         <div className="text-center py-12">
265:             <div className="text-6xl mb-4">?</div>
266:             <h3 className="text-xl font-semibold text-gray-700 mb-2">No results found</h3>
267:             <p className="text-gray-500">Try adjusting your search terms</p>
268:         </div>
269:     )}
270:
271:     {/* Information Panel */}
272:     <div className="bg-purple-50 border-2 border-purple-200 rounded-lg p-6">
273:         <h4 className="font-semibold text-purple-800 mb-3">? Metabolic Core - The STAR Feature</h4>
274:         <div className="text-sm text-purple-700 space-y-2">
275:             <p>
276:                 <strong>Metabolic Core</strong> is the most comprehensive section that allows trained nutrigenomics
277:                 experts to provide the best solutions for current health conditions and help prevent future risks.
278:             </p>
279:             <div className="grid md:grid-cols-2 gap-4 mt-4">
280:                 <div>
281:                     <h5 className="font-semibold mb-2">Key Features:</h5>
282:                     <ul className="list-disc list-inside space-y-1 text-xs">
283:                         <li>Gene-by-gene analysis with specific alleles</li>
284:                         <li>Personalized genotype results</li>
285:                         <li>Direct health impact assessment</li>
286:                         <li>Actionable advice for each metabolic area</li>
287:                     </ul>
288:                 </div>
289:                 <div>
290:                     <h5 className="font-semibold mb-2">Expert Usage:</h5>
291:                     <ul className="list-disc list-inside space-y-1 text-xs">
292:                         <li>Functional medicine practitioners love this section</li>
293:                         <li>Enables precise intervention strategies</li>
294:                         <li>Supports both preventive and active management</li>
295:                         <li>Provides scientific basis for recommendations</li>
296:                     </ul>
297:                 </div>
298:             </div>
299:         </div>
300:     </div>
301: </CardContent>
302: </Card>
303: )
304: }

```

File: components\admin\nutrition-admin.tsx

```

=====
1: "use client";
2:
3: import {
4:   Card,
5:   CardContent,
6:   CardDescription,
7:   CardHeader,
8:   CardTitle,
9: } from "@/components/ui/card";
10: import { Input } from "@/components/ui/input";
11: import { Label } from "@/components/ui/label";
12: import {
13:   Select,
14:   SelectContent,
15:   SelectItem,
16:   SelectTrigger,
17:   SelectValue,
18: } from "@/components/ui/select";
19: import { Button } from "@/components/ui/button";
20: import { Badge } from "@/components/ui/badge";
21: import {
22:   Dialog,
23:   DialogContent,
24:   DialogDescription,
25:   DialogFooter,

```

```

26:   DialogHeader,
27:   DialogTitle,
28:   DialogTrigger,
29: } from "@components/ui/dialog";
30: import { Save, RotateCcw, Plus, Trash2, Edit3 } from "lucide-react";
31: import { useState } from "react";
32:
33: interface NutrientData {
34:   score: number;
35:   healthImpact: string;
36:   intakeLevel: string;
37:   source: string;
38: }
39:
40: interface NutritionData {
41:   vitamins: Record<string, NutrientData>;
42:   fattyAcids: Record<string, NutrientData>;
43:   elements: Record<string, NutrientData>;
44:   complexNutrients: Record<string, NutrientData>;
45: }
46:
47: interface NutritionAdminProps {
48:   nutritionData?: NutritionData;
49:   updateNutritionData?: (
50:     section: keyof NutritionData,
51:     field: string,
52:     data: Partial<NutrientData>
53:   ) => void;
54:   onSave?: () => void;
55:   onReset?: () => void;
56: }
57:
58: export default function NutritionAdmin({
59:   nutritionData: propNutritionData,
60:   updateNutritionData: propUpdateNutritionData,
61:   onSave: propOnSave,
62:   onReset: propOnReset,
63: }: NutritionAdminProps) {
64:   // Default data structure
65:   const defaultNutrientData: NutrientData = {
66:     score: 5,
67:     healthImpact: "",
68:     intakeLevel: "NORMAL INTAKE",
69:     source: "DIET",
70:   };
71:
72:   const initialNutritionData: NutritionData = {
73:     vitamins: {
74:       vitaminA: {
75:         score: 6,
76:         healthImpact: "Vision & Immune",
77:         intakeLevel: "ENHANCED INTAKE",
78:         source: "DIET",
79:       },
80:       vitaminB12: {
81:         score: 8,
82:         healthImpact: "Energy & Nerves",
83:         intakeLevel: "ENHANCED INTAKE (METHYLCOBALAMIN)",
84:         source: "SUPPLEMENTS",
85:       },
86:       vitaminC: {
87:         score: 4,
88:         healthImpact: "Immune & Collagen",
89:         intakeLevel: "NORMAL INTAKE",
90:         source: "DIET",
91:       },
92:       vitaminD: {
93:         score: 9,
94:         healthImpact: "Bones & Immune",
95:         intakeLevel: "ENHANCED INTAKE & SUN EXPOSURE",
96:         source: "DIET & SUN EXPOSURE",
97:       },
98:       folate: {

```

```

99:         score: 7,
100:         healthImpact: "DNA & Blood",
101:         intakeLevel: "ENHANCED INTAKE (L METHYLFOLATE)",
102:         source: "DIET & SUPPLEMENTS",
103:     },
104: },
105: fattyAcids: {
106:     omega3: {
107:         score: 8,
108:         healthImpact: "Heart & Brain",
109:         intakeLevel: "ENHANCED INTAKE",
110:         source: "ENHANCED INTAKE (VEG/FISH OIL) & DIET",
111:     },
112:     omega6: {
113:         score: 3,
114:         healthImpact: "Inflammation",
115:         intakeLevel: "RESTRICTED INTAKE",
116:         source: "DIET",
117:     },
118: },
119: elements: {
120:     iron: {
121:         score: 6,
122:         healthImpact: "Blood & Energy",
123:         intakeLevel: "ENHANCED INTAKE (VEG SOURCES)",
124:         source: "DIET",
125:     },
126:     zinc: {
127:         score: 5,
128:         healthImpact: "Immune & Healing",
129:         intakeLevel: "NORMAL INTAKE",
130:         source: "DIET",
131:     },
132:     magnesium: {
133:         score: 7,
134:         healthImpact: "Muscle & Nerve",
135:         intakeLevel: "ENHANCED INTAKE",
136:         source: "DIET & SUPPLEMENTS",
137:     },
138: },
139: complexNutrients: {
140:     antioxidants: {
141:         score: 5,
142:         healthImpact: "Cell Protection",
143:         intakeLevel: "ENHANCED INTAKE",
144:         source: "DIET",
145:     },
146:     polyphenols: {
147:         score: 4,
148:         healthImpact: "Anti-inflammatory",
149:         intakeLevel: "ENHANCED INTAKE",
150:         source: "DIET",
151:     },
152: },
153: };
154:
155: // State management
156: const [nutritionData, setNutritionData] = useState<NutritionData>({
157:     propNutritionData || initialNutritionData
158: });
159: const [activeSection, setActiveSection] =
160:     useState<keyof NutritionData>("vitamins");
161: const [isAddDialogOpen, setIsAddDialogOpen] = useState(false);
162: const [newNutrientName, setNewNutrientName] = useState("");
163: const [isEditMode, setIsEditMode] = useState<string | null>(null);
164: const [editingName, setEditingName] = useState("");
165:
166: // CRUD Operations
167: const updateNutritionData = (
168:     section: keyof NutritionData,
169:     field: string,
170:     data: Partial<NutrientData>
171: ) => {

```



```

172:     setNutritionData((prev) => ({
173:         ...prev,
174:         [section]: {
175:             ...prev[section],
176:             [field]: {
177:                 ...prev[section][field],
178:                 ...data,
179:             },
180:         },
181:     }));
182:
183:     // Call prop function if provided
184:     if (propUpdateNutritionData) {
185:         propUpdateNutritionData(section, field, data);
186:     }
187: };
188:
189: const addNutrient = (section: keyof NutritionData, name: string) => {
190:     if (
191:         !name.trim() ||
192:         nutritionData[section][name.toLowerCase().replace(/\s+/g, "")]
193:     ) {
194:         return false;
195:     }
196:
197:     const fieldName = name.toLowerCase().replace(/\s+/g, "");
198:     setNutritionData((prev) => ({
199:         ...prev,
200:         [section]: {
201:             ...prev[section],
202:             [fieldName]: { ...defaultNutrientData },
203:         },
204:     }));
205:     return true;
206: };
207:
208: const deleteNutrient = (section: keyof NutritionData, field: string) => {
209:     setNutritionData((prev) => {
210:         const newSection = { ...prev[section] };
211:         delete newSection[field];
212:         return {
213:             ...prev,
214:             [section]: newSection,
215:         };
216:     });
217: };
218:
219: const renameNutrient = (
220:     section: keyof NutritionData,
221:     oldField: string,
222:     newName: string
223: ) => {
224:     if (
225:         !newName.trim() ||
226:         newName.toLowerCase().replace(/\s+/g, "") === oldField
227:     ) {
228:         return false;
229:     }
230:
231:     const newFieldName = newName.toLowerCase().replace(/\s+/g, "");
232:     if (nutritionData[section][newFieldName] && newFieldName !== oldField) {
233:         return false; // Name already exists
234:     }
235:
236:     setNutritionData((prev) => {
237:         const newSection = { ...prev[section] };
238:         const data = newSection[oldField];
239:         delete newSection[oldField];
240:         newSection[newFieldName] = data;
241:
242:         return {
243:             ...prev,
244:             [section]: newSection,

```

```

245:     };
246:   });
247:   return true;
248: };
249:
250: const onSave = () => {
251:   console.log("Saving nutrition data:", nutritionData);
252:   if (propOnSave) {
253:     propOnSave();
254:   } else {
255:     alert("Nutrition data saved successfully!");
256:   }
257: };
258:
259: const onReset = () => {
260:   setNutritionData(initialNutritionData);
261:   if (propOnReset) {
262:     propOnReset();
263:   }
264: };
265:
266: const handleAddNutrient = () => {
267:   if (addNutrient(activeSection, newNutrientName)) {
268:     setNewNutrientName("");
269:     setIsAddDialogOpen(false);
270:   } else {
271:     alert("Invalid name or nutrient already exists!");
272:   }
273: };
274:
275: const handleRename = (field: string) => {
276:   if (renameNutrient(activeSection, field, editingName)) {
277:     setIsEditMode(null);
278:     setEditingName("");
279:   } else {
280:     alert("Invalid name or nutrient already exists!");
281:   }
282: };
283:
284: const renderNutrientField = (
285:   section: keyof NutritionData,
286:   field: string,
287:   data: NutrientData,
288:   title: string
289: ) => (
290:   <Card key={field} className="border-2 border-green-100 bg-green-50/30">
291:     <CardHeader className="pb-3">
292:       <CardTitle className="text-lg text-green-800 flex items-center justify-between">
293:         {isEditMode === field ? (
294:           <div className="flex items-center gap-2 flex-1">
295:             <Input
296:               value={editingName}
297:               onChange={(e) => setEditingName(e.target.value)}
298:               className="text-lg font-semibold border-2 focus:border-green-500"
299:               onPress={(e) => e.key === "Enter" && handleRename(field)}
300:             />
301:             <Button size="sm" onClick={() => handleRename(field)}>
302:               ?
303:             </Button>
304:             <Button
305:               size="sm"
306:               variant="outline"
307:               onClick={() => {
308:                 setIsEditMode(null);
309:                 setEditingName("");
310:               }}
311:             >
312:               ?
313:             </Button>
314:           </div>
315:         ) : (
316:           <div className="flex items-center gap-2 flex-1">
317:             <span>{title}</span>

```

```

318:         <Button
319:             size="sm"
320:             variant="ghost"
321:             onClick={() => {
322:                 setIsEditMode(field);
323:                 setEditingName(title);
324:             }}
325:         >
326:             <Edit3 className="h-3 w-3" />
327:         </Button>
328:     </div>
329: )}
330:
331: <div className="flex items-center gap-2">
332:     <Badge
333:         variant="outline"
334:         className={`{
335:             data.score >= 7
336:             ? "border-red-500 text-red-700"
337:             : data.score >= 4
338:             ? "border-yellow-500 text-yellow-700"
339:             : "border-green-500 text-green-700"
340:         }`}
341:     >
342:         Score: {data.score}/10
343:     </Badge>
344:     <Button
345:         size="sm"
346:         variant="ghost"
347:         onClick={() => deleteNutrient(section, field)}
348:         className="text-red-600 hover:bg-red-100"
349:     >
350:         <Trash2 className="h-4 w-4" />
351:     </Button>
352: </div>
353: </CardTitle>
354: </CardHeader>
355: <CardContent className="space-y-4">
356:     <div className="grid grid-cols-2 gap-4">
357:         <div className="space-y-2">
358:             <Label className="text-sm font-medium">Score (1-10)</Label>
359:             <Input
360:                 type="number"
361:                 min="1"
362:                 max="10"
363:                 value={data.score}
364:                 onChange={(e) => {
365:                     const score = Math.max(
366:                         1,
367:                         Math.min(10, Number.parseInt(e.target.value) || 1)
368:                     );
369:                     updateNutritionData(section, field, { score });
370:                 }}
371:                 className="border-2 focus:border-green-500"
372:             />
373:         </div>
374:         <div className="space-y-2">
375:             <Label className="text-sm font-medium">Health Impact</Label>
376:             <Input
377:                 value={data.healthImpact}
378:                 onChange={(e) =>
379:                     updateNutritionData(section, field, {
380:                         healthImpact: e.target.value,
381:                     })
382:             }
383:             placeholder="e.g., Skin & Vision"
384:             className="border-2 focus:border-green-500"
385:             />
386:         </div>
387:     </div>
388:
389:     <div className="space-y-2">
390:         <Label className="text-sm font-medium">Intake Level</Label>

```

```

391:         <Select
392:             value={data.intakeLevel}
393:             onChange={(value) =>
394:                 updateNutritionData(section, field, { intakeLevel: value })
395:             }
396:         >
397:             <SelectTrigger className="border-2 focus:border-green-500">
398:                 <SelectValue />
399:             </SelectTrigger>
400:             <SelectContent>
401:                 <SelectItem value="ENHANCED INTAKE">ENHANCED INTAKE</SelectItem>
402:                 <SelectItem value="NORMAL INTAKE">NORMAL INTAKE</SelectItem>
403:                 <SelectItem value="RESTRICTED INTAKE">
404:                     RESTRICTED INTAKE
405:                 </SelectItem>
406:                 <SelectItem value="ENHANCED INTAKE (METHYLCOBALAMIN)">
407:                     ENHANCED INTAKE (METHYLCOBALAMIN)
408:                 </SelectItem>
409:                 <SelectItem value="ENHANCED INTAKE (L METHYLFOLATE)">
410:                     ENHANCED INTAKE (L METHYLFOLATE)
411:                 </SelectItem>
412:                 <SelectItem value="ENHANCED INTAKE & SUN EXPOSURE">
413:                     ENHANCED INTAKE & SUN EXPOSURE
414:                 </SelectItem>
415:                 <SelectItem value="ENHANCED INTAKE (VEG SOURCES)">
416:                     ENHANCED INTAKE (VEG SOURCES)
417:                 </SelectItem>
418:             </SelectContent>
419:         </Select>
420:     </div>
421:
422:     <div className="space-y-2">
423:         <Label className="text-sm font-medium">Source</Label>
424:         <Select
425:             value={data.source}
426:             onChange={(value) =>
427:                 updateNutritionData(section, field, { source: value })
428:             }
429:         >
430:             <SelectTrigger className="border-2 focus:border-green-500">
431:                 <SelectValue />
432:             </SelectTrigger>
433:             <SelectContent>
434:                 <SelectItem value="DIET">DIET</SelectItem>
435:                 <SelectItem value="SUPPLEMENTS">SUPPLEMENTS</SelectItem>
436:                 <SelectItem value="DIET & SUPPLEMENTS">
437:                     DIET & SUPPLEMENTS
438:                 </SelectItem>
439:                 <SelectItem value="DIET & SUN EXPOSURE">
440:                     DIET & SUN EXPOSURE
441:                 </SelectItem>
442:                 <SelectItem value="ENHANCED INTAKE (VEG/FISH OIL) & DIET">
443:                     ENHANCED INTAKE (VEG/FISH OIL) & DIET
444:                 </SelectItem>
445:             </SelectContent>
446:         </Select>
447:     </div>
448: </CardContent>
449: </Card>
450: );
451:
452: const getSectionTitle = (section: keyof NutritionData) => {
453:     switch (section) {
454:         case "vitamins":
455:             return "? Vitamins";
456:         case "fattyAcids":
457:             return "? Fatty Acids";
458:         case "elements":
459:             return "? Essential Elements";
460:         case "complexNutrients":
461:             return "? Complex Nutrients";
462:         default:
463:             return section;

```

```

464:     }
465:   };
466:
467:   const getSectionIcon = (section: keyof NutritionData) => {
468:     switch (section) {
469:       case "vitamins":
470:         return "?";
471:       case "fattyAcids":
472:         return "?";
473:       case "elements":
474:         return "?";
475:       case "complexNutrients":
476:         return "?";
477:       default:
478:         return "?";
479:     }
480:   };
481:
482:   return (
483:     <Card className="shadow-lg border-0 bg-white">
484:       <CardHeader className="bg-gradient-to-r from-green-500 to-emerald-600 text-white rounded-t-lg">
485:         <CardTitle className="text-2xl">? Nutrition Analysis</CardTitle>
486:         <CardDescription className="text-green-100">
487:           Configure vitamins, minerals, fatty acids, and complex nutrients with
488:           full CRUD operations
489:         </CardDescription>
490:       </CardHeader>
491:       <CardContent className="space-y-8 p-8">
492:         { /* Action Buttons */ }
493:         <div className="flex justify-between items-center flex-wrap gap-4">
494:           <div className="flex gap-2 flex-wrap">
495:             {(Object.keys(nutritionData) as Array<keyof NutritionData>).map(
496:               (section) => (
497:                 <Button
498:                   key={section}
499:                   variant={activeSection === section ? "default" : "outline"}
500:                   size="sm"
501:                   onClick={() => setActiveSection(section)}
502:                   className="flex items-center gap-2"
503:                 >
504:                   <span>{getSectionIcon(section)}</span>
505:                   <span className="capitalize">
506:                     {section.replace(/([A-Z])/g, " $1")}
507:                   </span>
508:                 </Button>
509:               )
510:             )}
511:           </div>
512:
513:           <div className="flex gap-2 flex-wrap">
514:             <Dialog open={isAddDialogOpen} onOpenChange={setIsAddDialogOpen}>
515:               <DialogTrigger asChild>
516:                 <Button
517:                   variant="outline"
518:                   size="sm"
519:                   className="bg-green-50 border-green-200 text-green-700 hover:bg-green-100"
520:                 >
521:                   <Plus className="h-4 w-4 mr-2" />
522:                   Add New
523:                 </Button>
524:               </DialogTrigger>
525:               <DialogContent>
526:                 <DialogHeader>
527:                   <DialogTitle>
528:                     Add New{" "}
529:                     {getSectionTitle(activeSection).replace(/^[^w\s]/gi, "")}{ " "}
530:                     Item
531:                   </DialogTitle>
532:                   <DialogDescription>
533:                     Enter the name for the new nutrient in the {activeSection}{ " "}
534:                     section.
535:                   </DialogDescription>
536:                 </DialogHeader>

```

```

537:         <div className="space-y-4 py-4">
538:             <div className="space-y-2">
539:                 <Label htmlFor="nutrientName">Nutrient Name</Label>
540:                 <Input
541:                     id="nutrientName"
542:                     value={newNutrientName}
543:                     onChange={(e) => setNewNutrientName(e.target.value)}
544:                     placeholder="e.g., Vitamin E, Selenium, etc."
545:                     onPress={(e) =>
546:                         e.key === "Enter" && handleAddNutrient()
547:                     }
548:                 />
549:             </div>
550:         </div>
551:         <DialogFooter>
552:             <Button
553:                 variant="outline"
554:                 onClick={() => {
555:                     setIsAddDialogOpen(false);
556:                     setNewNutrientName("");
557:                 }}
558:             >
559:                 Cancel
560:             </Button>
561:             <Button
562:                 onClick={handleAddNutrient}
563:                 disabled={!newNutrientName.trim()}
564:             >
565:                 Add Nutrient
566:             </Button>
567:         </DialogFooter>
568:     </DialogContent>
569: </Dialog>
570:
571:     <Button onClick={onReset} variant="outline" size="sm">
572:         <RotateCcw className="h-4 w-4 mr-2" />
573:         Reset
574:     </Button>
575:     <Button onClick={onSave} size="sm">
576:         <Save className="h-4 w-4 mr-2" />
577:         Save Changes
578:     </Button>
579: </div>
580: </div>
581:
582: { /* Section Content */ }
583: <div className="space-y-6">
584:     <h3 className="text-xl font-semibold text-gray-800 border-b-2 border-green-200 pb-2">
585:         {getSectionTitle(activeSection)}
586:     </h3>
587:
588:     <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-6">
589:         {Object.entries(nutritionData[activeSection]).map(([key, item]) =>
590:             renderNutrientField(
591:                 activeSection,
592:                 key,
593:                 item as NutrientData,
594:                 key
595:                     .replace(/[A-Z]/g, " $1")
596:                     .replace(/^.\/, (str) => str.toUpperCase())
597:             )
598:         )}
599:     </div>
600:
601:     {Object.keys(nutritionData[activeSection]).length === 0 && (
602:         <div className="text-center py-12 bg-gray-50 rounded-lg border-2 border-dashed border-gray-300">
603:             <div className="text-gray-500 text-lg mb-2">
604:                 No items in this section
605:             </div>
606:             <div className="text-gray-400 text-sm">
607:                 Click "Add New" to add your first nutrient
608:             </div>
609:         </div>

```

```

610:     })
611: </div>
612:
613: { /* Section Guidelines */
614: <div className="bg-green-50 border-2 border-green-200 rounded-lg p-6">
615:   <h4 className="font-semibold text-green-800 mb-2">
616:     ? {getSectionTitle(activeSection)} Guidelines:
617:   </h4>
618:   <div className="text-sm text-green-700 space-y-2">
619:     {activeSection === "vitamins" && (
620:       <ul className="list-disc list-inside space-y-1">
621:         <li>
622:           Score 1-3: Low requirement, normal dietary intake sufficient
623:         </li>
624:         <li>
625:           Score 4-6: Moderate requirement, enhanced dietary intake
626:           recommended
627:         </li>
628:         <li>
629:           Score 7-10: High requirement, supplementation may be needed
630:         </li>
631:         <li>Consider bioavailable forms for better absorption</li>
632:       </ul>
633:     )}
634:     {activeSection === "elements" && (
635:       <ul className="list-disc list-inside space-y-1">
636:         <li>
637:           Essential minerals required for various metabolic processes
638:         </li>
639:         <li>
640:           Balance is key - both deficiency and excess can be harmful
641:         </li>
642:         <li>Consider interactions between different minerals</li>
643:         <li>Monitor through regular blood tests</li>
644:       </ul>
645:     )}
646:     {activeSection === "fattyAcids" && (
647:       <ul className="list-disc list-inside space-y-1">
648:         <li>
649:           Omega-3 fatty acids are essential for heart and brain health
650:         </li>
651:         <li>Consider EPA:DHA ratio for optimal benefits</li>
652:         <li>
653:           Vegetarian sources include flaxseed, chia seeds, walnuts
654:         </li>
655:         <li>Fish oil supplements for non-vegetarians</li>
656:       </ul>
657:     )}
658:     {activeSection === "complexNutrients" && (
659:       <ul className="list-disc list-inside space-y-1">
660:         <li>Antioxidants help protect against cellular damage</li>
661:         <li>Anti-inflammatory compounds reduce chronic inflammation</li>
662:         <li>Best obtained from colorful fruits and vegetables</li>
663:         <li>Synergistic effects when consumed together</li>
664:       </ul>
665:     )}
666:   </div>
667: </div>
668:
669: { /* Summary Statistics */
670: <div className="grid md:grid-cols-4 gap-4">
671:   <div className="bg-red-50 border border-red-200 rounded-lg p-4 text-center">
672:     <div className="text-2xl font-bold text-red-600">
673:       {
674:         Object.values(nutritionData[activeSection]).filter(
675:           (item: any) => item.score >= 7
676:         ).length
677:       }
678:     </div>
679:     <div className="text-sm text-red-700">High Priority</div>
680:   </div>
681:   <div className="bg-yellow-50 border border-yellow-200 rounded-lg p-4 text-center">
682:     <div className="text-2xl font-bold text-yellow-600">

```

```

683:         {
684:             Object.values(nutritionData[activeSection]).filter(
685:                 (item: any) => item.score >= 4 && item.score < 7
686:             ).length
687:         }
688:     </div>
689:     <div className="text-sm text-yellow-700">Moderate Priority</div>
690: </div>
691: <div className="bg-green-50 border border-green-200 rounded-lg p-4 text-center">
692:     <div className="text-2xl font-bold text-green-600">
693:         {
694:             Object.values(nutritionData[activeSection]).filter(
695:                 (item: any) => item.score < 4
696:             ).length
697:         }
698:     </div>
699:     <div className="text-sm text-green-700">Low Priority</div>
700: </div>
701: <div className="bg-blue-50 border border-blue-200 rounded-lg p-4 text-center">
702:     <div className="text-2xl font-bold text-blue-600">
703:         {Object.keys(nutritionData[activeSection]).length}
704:     </div>
705:     <div className="text-sm text-blue-700">Total Items</div>
706: </div>
707: </div>
708: </CardContent>
709: </Card>
710: );
711: }

```

■ File: components\admin\patient-info-admin.tsx

```

1: "use client";
2:
3: import {
4:   Card,
5:   CardContent,
6:   CardDescription,
7:   CardHeader,
8:   CardTitle,
9: } from "@/components/ui/card";
10: import { Textarea } from "@/components/ui/textarea";
11: import { Input } from "@/components/ui/input";
12: import { Label } from "@/components/ui/label";
13: import {
14:   Select,
15:   SelectContent,
16:   SelectItem,
17:   SelectTrigger,
18:   SelectValue,
19: } from "@/components/ui/select";
20: import { Button } from "@/components/ui/button";
21: import { Save, RotateCcw, Upload, X } from "lucide-react";
22: import { useRef } from "react";
23: import type { PatientInfo } from "@/types/report-types";
24:
25: interface PatientInfoAdminProps {
26:   patientInfo: PatientInfo;
27:   updatePatientInfo: (field: keyof PatientInfo, value: string) => void;
28:   onSave: () => void;
29:   onReset: () => void;
30: }
31:
32: export default function PatientInfoAdmin({
33:   patientInfo,
34:   updatePatientInfo,
35:   onSave,
36:   onReset,
37: }: PatientInfoAdminProps) {
38:   const fileInput1Ref = useRef<HTMLInputElement>(null);
39:   const fileInput2Ref = useRef<HTMLInputElement>(null);

```



```

40:
41: const handleImageUpload = (
42:   e: React.ChangeEvent<HTMLInputElement>,
43:   key: "signature1" | "signature2"
44: ) => {
45:   const file = e.target.files?.[0];
46:   if (!file) return;
47:
48:   const imageUrl = URL.createObjectURL(file);
49:   updatePatientInfo(key, imageUrl);
50: };
51:
52: const removeSignature = (
53:   key: "signature1" | "signature2",
54:   ref: React.RefObject<HTMLInputElement>
55: ) => {
56:   updatePatientInfo(key, null);
57:   if (ref.current) ref.current.value = "";
58: };
59:
60: return (
61:   <Card className="shadow-lg border-0 bg-white">
62:     <CardHeader className="bg-gradient-to-r from-blue-500 to-purple-600 text-white rounded-t-lg">
63:       <CardTitle className="text-2xl">? Patient Information</CardTitle>
64:       <CardDescription className="text-blue-100">
65:         Complete patient details as they appear on the report cover page
66:       </CardDescription>
67:     </CardHeader>
68:     <CardContent className="space-y-6 p-8">
69:       { /* Action Buttons */ }
70:       <div className="flex justify-end gap-2 mb-6">
71:         <Button onClick={onReset} variant="outline" size="sm">
72:           <RotateCcw className="h-4 w-4 mr-2" />
73:           Reset
74:         </Button>
75:         <Button onClick={onSave} size="sm">
76:           <Save className="h-4 w-4 mr-2" />
77:           Save Changes
78:         </Button>
79:       </div>
80:
81:       { /* Basic Information */ }
82:       <div className="space-y-4">
83:         <h3 className="text-lg font-semibold text-gray-800 pb-2">
84:           Personal Information
85:         </h3>
86:         <div className="grid md:grid-cols-3 gap-6">
87:           <div className="space-y-2">
88:             <Label
89:               htmlFor="name"
90:               className="text-sm font-semibold text-gray-700 required"
91:             >
92:               Patient Name *
93:             </Label>
94:             <Input
95:               id="name"
96:               value={patientInfo.name}
97:               onChange={(e) => updatePatientInfo("name", e.target.value)}
98:               placeholder="Enter full patient name"
99:               className="border-2 focus:border-blue-500"
100:             />
101:           </div>
102:         </div>
103:         <div className="space-y-2">
104:           <Label
105:             htmlFor="gender"
106:             className="text-sm font-semibold text-gray-700 required"
107:           >
108:             Gender *
109:           </Label>
110:           <Select
111:             value={patientInfo.gender}
112:             onChange={(value) => updatePatientInfo("gender", value)}

```

```

113:         >
114:         <SelectTrigger className="border-2 focus:border-blue-500">
115:             <SelectValue placeholder="Select gender" />
116:         </SelectTrigger>
117:         <SelectContent>
118:             <SelectItem value="MALE">Male</SelectItem>
119:             <SelectItem value="FEMALE">Female</SelectItem>
120:             <SelectItem value="OTHER">Other</SelectItem>
121:         </SelectContent>
122:     </Select>
123: </div>
124: <div className="space-y-2">
125:     <Label
126:         htmlFor="birthDate"
127:         className="text-sm font-semibold text-gray-700 required"
128:     >
129:         Birth Date *
130:     </Label>
131:     <Input
132:         id="birthDate"
133:         type="date"
134:         value={patientInfo.birthDate}
135:         onChange={(e) => updatePatientInfo("birthDate", e.target.value)}
136:         className="border-2 focus:border-blue-500"
137:         required
138:     />
139: </div>
140: </div>
141: </div>
142:
143: { /* Sample Information */ }
144: <div className="space-y-4">
145:     <h3 className="text-lg font-semibold text-gray-800 border-b pb-2">
146:         Sample Information
147:     </h3>
148:     <div className="grid md:grid-cols-3 gap-6">
149:         <div className="space-y-2">
150:             <Label
151:                 htmlFor="sampleCode"
152:                 className="text-sm font-semibold text-gray-700 required"
153:             >
154:                 Sample Code *
155:             </Label>
156:             <Input
157:                 id="sampleCode"
158:                 value={patientInfo.sampleCode}
159:                 onChange={(e) =>
160:                     updatePatientInfo("sampleCode", e.target.value)
161:                 }
162:                 placeholder="e.g., DNL1000000110"
163:                 className="border-2 focus:border-blue-500 font-mono"
164:                 required
165:             />
166:             <p className="text-xs text-gray-500">
167:                 Unique identifier for the DNA sample
168:             </p>
169:         </div>
170:         <div className="space-y-2">
171:             <Label
172:                 htmlFor="sampleDate"
173:                 className="text-sm font-semibold text-gray-700 required"
174:             >
175:                 Sample Collection Date *
176:             </Label>
177:             <Input
178:                 id="sampleDate"
179:                 type="date"
180:                 value={patientInfo.sampleDate}
181:                 onChange={(e) =>
182:                     updatePatientInfo("sampleDate", e.target.value)
183:                 }
184:                 className="border-2 focus:border-blue-500"
185:                 required

```

```

186:         />
187:     </div>
188:     <div className="space-y-2">
189:         <Label
190:             htmlFor="reportDate"
191:             className="text-sm font-semibold text-gray-700 required"
192:         >
193:             Report Date *
194:         </Label>
195:         <Input
196:             id="reportDate"
197:             type="date"
198:             value={patientInfo.reportDate}
199:             onChange={(e) =>
200:                 updatePatientInfo("reportDate", e.target.value)
201:             }
202:             className="border-2 focus:border-blue-500"
203:             required
204:         />
205:     </div>
206: </div>
207: </div>
208:
209: { /* Authorization & Verification */ }
210: <div className="space-y-6 border-t border-black py-6">
211:     { /* Section Title */ }
212:     <h2 className="text-center text-lg md:text-xl font-bold text-gray-800 pb-2">
213:         REPORT AUTHENTICATION & ANALYTICS
214:     </h2>
215:
216:     { /* Roles */ }
217:     <div className="grid md:grid-cols-2 gap-6 text-center">
218:         <div>
219:             <p className="text-base font-semibold text-gray-700 uppercase">
220:                 Genomic Data Analytics
221:             <br />
222:             Checked & Verified By
223:         </p>
224:     </div>
225:     <div>
226:         <p className="text-base font-semibold text-gray-700 uppercase">
227:             Scientific Content
228:         <br />
229:         Checked & Verified By
230:     </p>
231:     </div>
232: </div>
233:
234: { /* Signature Previews */ }
235: <div className="grid md:grid-cols-2 gap-6 text-center mt-4">
236:     { /* Signature 1 */ }
237:     <div className="space-y-2">
238:         {patientInfo.signature1 ? (
239:             <div className="relative w-full border rounded bg-white p-3">
240:                 <img
241:                     src={patientInfo.signature1}
242:                     alt="Primary Signature"
243:                     className="max-h-24 mx-auto object-contain"
244:                 />
245:                 <Button
246:                     onClick={() => removeSignature("signature1", fileInput1Ref)}
247:                     variant="outline"
248:                     size="sm"
249:                     className="absolute top-1 right-1 h-6 w-6 p-0"
250:                 >
251:                     <X className="h-3 w-3" />
252:                 </Button>
253:             </div>
254:         ) : (
255:             <div className="border-2 border-dashed border-gray-300 rounded-lg p-4 bg-gray-50">
256:                 <Upload className="h-8 w-8 text-gray-400 mx-auto mb-2" />
257:                 <p className="text-sm text-gray-500 mb-2">
258:                     Upload primary signature

```

```

259:         </p>
260:         <Button
261:             onClick={() => fileInput1Ref.current?.click()}
262:             variant="outline"
263:             size="sm"
264:         >
265:             <Upload className="h-4 w-4 mr-2" />
266:             Choose File
267:         </Button>
268:     </div>
269: )}
270: <input
271:     ref={fileInput1Ref}
272:     type="file"
273:     accept="image/*"
274:     onChange={(e) => handleImageUpload(e, "signature1")}
275:     className="hidden"
276: />
277: <p className="text-sm font-medium text-gray-800 mt-1">
278:     {patientInfo.checkedBy || "Dr. Amol D Raut (PhD)}
279: </p>
280: </div>
281:
282: {/* Signature 2 */}
283: <div className="space-y-2">
284:     {patientInfo.signature2 ? (
285:         <div className="relative w-full border rounded bg-white p-3">
286:             <img
287:                 src={patientInfo.signature2}
288:                 alt="Secondary Signature"
289:                 className="max-h-24 mx-auto object-contain"
290:             />
291:             <Button
292:                 onClick={() => removeSignature("signature2", fileInput2Ref)}
293:                 variant="outline"
294:                 size="sm"
295:                 className="absolute top-1 right-1 h-6 w-6 p-0"
296:             >
297:                 <X className="h-3 w-3" />
298:             </Button>
299:         </div>
300:     ) : (
301:         <div className="border-2 border-dashed border-gray-300 rounded-lg p-4 bg-gray-50">
302:             <Upload className="h-8 w-8 text-gray-400 mx-auto mb-2" />
303:             <p className="text-sm text-gray-500 mb-2">
304:                 Upload secondary signature
305:             </p>
306:             <Button
307:                 onClick={() => fileInput2Ref.current?.click()}
308:                 variant="outline"
309:                 size="sm"
310:             >
311:                 <Upload className="h-4 w-4 mr-2" />
312:                 Choose File
313:             </Button>
314:         </div>
315:     )}
316: <input
317:     ref={fileInput2Ref}
318:     type="file"
319:     accept="image/*"
320:     onChange={(e) => handleImageUpload(e, "signature2")}
321:     className="hidden"
322: />
323: <p className="text-sm font-medium text-gray-800 mt-1">
324:     {patientInfo.scientificContent || "Dr. Gouri A Raut (PhD)}
325: </p>
326: </div>
327: </div>
328:
329: {/* Optional Text Fields (if editing verifier names manually) */}
330: <div className="grid md:grid-cols-2 gap-6 mt-6">
331:     <div className="space-y-2">

```

```

332:         <Label
333:             htmlFor="checkedBy"
334:             className="text-sm font-semibold text-gray-700"
335:         >
336:             Checked & Verified By
337:         </Label>
338:         <Input
339:             id="checkedBy"
340:             value={patientInfo.checkedBy}
341:             onChange={(e) => updatePatientInfo("checkedBy", e.target.value)}
342:             placeholder="Enter verifier name"
343:             className="border-2 focus:border-blue-500"
344:         />
345:     </div>
346:     <div className="space-y-2">
347:         <Label
348:             htmlFor="scientificContent"
349:             className="text-sm font-semibold text-gray-700"
350:         >
351:             Scientific Content Verified By
352:         </Label>
353:         <Input
354:             id="scientificContent"
355:             value={patientInfo.scientificContent}
356:             onChange={(e) =>
357:                 updatePatientInfo("scientificContent", e.target.value)
358:             }
359:             placeholder="Enter scientific content verifier"
360:             className="border-2 focus:border-blue-500"
361:         />
362:     </div>
363: </div>
364: </div>
365:
366: <div className="space-y-3">
367:     <Label
368:         htmlFor="disclaimer"
369:         className="text-lg font-semibold text-gray-800"
370:     >
371:         Disclaimer
372:     </Label>
373:     <Textarea
374:         id="disclaimer"
375:         value={patientInfo.disclaimer}
376:         onChange={(e) => updatePatientInfo("disclaimer", e.target.value)}
377:         placeholder="Enter disclaimer text"
378:         rows={10}
379:         className="border-2 focus:border-green-500 text-sm leading-relaxed"
380:     />
381: </div>
382:
383: <style jsx>{`
384:     .required::after {
385:         content: " *";
386:         color: #ef4444;
387:     }
388: `}</style>
389: </CardContent>
390: </Card>
391: );
392: }

```

■ File: components\admin\pdf-generator.tsx

```

=====
1: "use client"
2:
3: import { Button } from "@/components/ui/button"
4: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@/components/ui/card"
5: import { Download, Printer, Eye } from "lucide-react"
6: import { useState } from "react"
7: import type { ComprehensiveReportData } from "@/types/report-types"

```

```

8: import { useToast } from "@components/ui/use-toast" // Import useToast
9:
10: interface PDFGeneratorProps {
11:   reportData: ComprehensiveReportData
12: }
13:
14: export default function PDFGenerator({ reportData }: PDFGeneratorProps) {
15:   const [isGenerating, setIsGenerating] = useState(false)
16:   const { toast } = useToast() // Initialize useToast
17:
18:   // State for PDF settings (can be expanded if more options are needed for actual PDF generation)
19:   const [pdfSettings, setPdfSettings] = useState({
20:     format: "A4",
21:     orientation: "portrait",
22:     margins: "normal",
23:     quality: "high",
24:     includeGraphics: true,
25:     includeColors: true,
26:   })
27:
28:   const handlePrintOrDownload = async (action: "print" | "download") => {
29:     setIsGenerating(true)
30:     try {
31:       // Open a new window to the PDF generation page
32:       const printWindow = window.open("/report/pdf", "_blank")
33:
34:       if (printWindow) {
35:         // Wait for the content to load in the new window
36:         printWindow.onload = () => {
37:           // Give a small delay to ensure all content and styles are rendered
38:           setTimeout(() => {
39:             if (action === "print") {
40:               printWindow.print()
41:               toast({
42:                 title: "Print Dialog Opened",
43:                 description: "Please select 'Save as PDF' or your printer in the dialog.",
44:               })
45:             } else {
46:               // For download, the browser's print dialog usually offers "Save as PDF"
47:               // We trigger print, and the user saves it.
48:               printWindow.print()
49:               toast({
50:                 title: "Download Initiated",
51:                 description: "Please select 'Save as PDF' in the print dialog to download.",
52:               })
53:             }
54:             setIsGenerating(false)
55:           }, 1500) // Increased delay for better rendering
56:         }
57:         printWindow.onerror = () => {
58:           toast({
59:             title: "Error",
60:             description: "Could not open print window. Please check pop-up blockers.",
61:             variant: "destructive",
62:           })
63:           setIsGenerating(false)
64:         }
65:       } else {
66:         toast({
67:           title: "Error",
68:           description: "Pop-up blocked or window could not be opened. Please allow pop-ups for this site.",
69:           variant: "destructive",
70:         })
71:         setIsGenerating(false)
72:       }
73:     } catch (error) {
74:       console.error("Error handling PDF:", error)
75:       toast({
76:         title: "Error",
77:         description: "An unexpected error occurred during PDF generation.",
78:         variant: "destructive",
79:       })
80:       setIsGenerating(false)

```

```

81:     }
82:   }
83:
84:   const previewPDF = () => {
85:     window.open("/report/preview", "_blank")
86:     toast({
87:       title: "Preview Opened",
88:       description: "Your report preview is open in a new tab.",
89:     })
90:   }
91:
92:   return (
93:     <Card className="shadow-lg border-0 bg-white">
94:       <CardHeader className="bg-gradient-to-r from-red-500 to-pink-600 text-white rounded-t-lg">
95:         <CardTitle className="text-2xl">? PDF Generation</CardTitle>
96:         <CardDescription className="text-red-100">Generate and download professional PDF reports</CardDescr
97:       </CardHeader>
98:       <CardContent className="space-y-6 p-8">
99:         { /* Quick Actions */ }
100:         <div className="grid md:grid-cols-3 gap-4">
101:           <Button
102:             onClick={previewPDF}
103:             variant="outline"
104:             className="h-20 flex flex-col items-center justify-center gap-2 bg-transparent"
105:             disabled={isGenerating}
106:           >
107:             <Eye className="h-6 w-6" />
108:             <span>Preview Report</span>
109:           </Button>
110:
111:           <Button
112:             onClick={() => handlePrintOrDownload("print")}
113:             disabled={isGenerating}
114:             className="h-20 flex flex-col items-center justify-center gap-2 bg-blue-600 hover:bg-blue-700"
115:           >
116:             <Printer className="h-6 w-6" />
117:             <span>{isGenerating ? "Generating..." : "Print Report"}</span>
118:           </Button>
119:
120:           <Button
121:             onClick={() => handlePrintOrDownload("download")}
122:             disabled={isGenerating}
123:             className="h-20 flex flex-col items-center justify-center gap-2 bg-green-600 hover:bg-green-700"
124:           >
125:             <Download className="h-6 w-6" />
126:             <span>{isGenerating ? "Preparing..." : "Download PDF"}</span>
127:           </Button>
128:         </div>
129:
130:         { /* PDF Settings */ }
131:         <div className="space-y-4">
132:           <h3 className="text-lg font-semibold text-gray-800">PDF Settings (for Print Dialog)</h3>
133:           <div className="grid md:grid-cols-2 gap-6">
134:             <div className="space-y-4">
135:               <div>
136:                 <label className="block text-sm font-medium text-gray-700 mb-2">Page Format</label>
137:                 <select
138:                   value={pdfSettings.format}
139:                   onChange={(e) => setPdfSettings((prev) => ({ ...prev, format: e.target.value })))}
140:                   className="w-full border border-gray-300 rounded-md px-3 py-2 focus:outline-none focus:ri
141:                 >
142:                   <option value="A4">A4 (210 × 297 mm)</option>
143:                   <option value="Letter">Letter (8.5 × 11 in)</option>
144:                   <option value="Legal">Legal (8.5 × 14 in)</option>
145:                 </select>
146:               </div>
147:
148:               <div>
149:                 <label className="block text-sm font-medium text-gray-700 mb-2">Orientation</label>
150:                 <select
151:                   value={pdfSettings.orientation}
152:                   onChange={(e) => setPdfSettings((prev) => ({ ...prev, orientation: e.target.value })))}
153:                   className="w-full border border-gray-300 rounded-md px-3 py-2 focus:outline-none focus:ri

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154:         >
155:         <option value="portrait">Portrait</option>
156:         <option value="landscape">Landscape</option>
157:     </select>
158: </div>
159:
160: <div>
161:     <label className="block text-sm font-medium text-gray-700 mb-2">Margins</label>
162:     <select
163:         value={pdfSettings.margins}
164:         onChange={(e) => setPdfSettings((prev) => ({ ...prev, margins: e.target.value })))}
165:         className="w-full border border-gray-300 rounded-md px-3 py-2 focus:outline-none focus:ring"
166:     >
167:         <option value="none">None</option>
168:         <option value="minimum">Minimum</option>
169:         <option value="normal">Normal</option>
170:         <option value="maximum">Maximum</option>
171:     </select>
172: </div>
173: </div>
174:
175: <div className="space-y-4">
176:     <div>
177:         <label className="block text-sm font-medium text-gray-700 mb-2">Quality</label>
178:         <select
179:             value={pdfSettings.quality}
180:             onChange={(e) => setPdfSettings((prev) => ({ ...prev, quality: e.target.value })))}
181:             className="w-full border border-gray-300 rounded-md px-3 py-2 focus:outline-none focus:ring"
182:         >
183:             <option value="draft">Draft</option>
184:             <option value="normal">Normal</option>
185:             <option value="high">High</option>
186:             <option value="maximum">Maximum</option>
187:         </select>
188:     </div>
189:
190:     <div className="space-y-3">
191:         <label className="flex items-center">
192:             <input
193:                 type="checkbox"
194:                 checked={pdfSettings.includeGraphics}
195:                 onChange={(e) => setPdfSettings((prev) => ({ ...prev, includeGraphics: e.target.checked })))}
196:                 className="mr-2"
197:             />
198:             <span className="text-sm text-gray-700">Include Graphics</span>
199:         </label>
200:
201:         <label className="flex items-center">
202:             <input
203:                 type="checkbox"
204:                 checked={pdfSettings.includeColors}
205:                 onChange={(e) => setPdfSettings((prev) => ({ ...prev, includeColors: e.target.checked })))}
206:                 className="mr-2"
207:             />
208:             <span className="text-sm text-gray-700">Include Colors</span>
209:         </label>
210:     </div>
211: </div>
212: </div>
213: </div>
214:
215: { /* Report Information */ }
216: <div className="bg-gray-50 border border-gray-200 rounded-lg p-4">
217:     <h4 className="font-semibold text-gray-800 mb-3">Report Information</h4>
218:     <div className="grid md:grid-cols-2 gap-4 text-sm">
219:         <div>
220:             <span className="font-medium">Patient:</span> {reportData.patientInfo.name || "Not specified"}
221:         </div>
222:         <div>
223:             <span className="font-medium">Sample Code:</span> {reportData.patientInfo.sampleCode || "Not specified"}
224:         </div>
225:         <div>
226:             <span className="font-medium">Report Date:</span> {reportData.patientInfo.reportDate || "Not specified"}

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227:         </div>
228:         <div>
229:             <span className="font-medium">Total Pages:</span> ~47 pages (estimate)
230:         </div>
231:     </div>
232: </div>
233:
234:     { /* Instructions */ }
235:     <div className="bg-blue-50 border border-blue-200 rounded-lg p-4">
236:         <h4 className="font-semibold text-blue-800 mb-2">? PDF Generation Instructions</h4>
237:         <ul className="text-sm text-blue-700 space-y-1">
238:             <li>? Click "Preview Report" to review the content before generating PDF.</li>
239:             <li>? Use "Print Report" or "Download PDF" to open your browser's print dialog.</li>
240:             <li>? In the print dialog, select "Save as PDF" as the destination to download the report.</li>
241:             <li>
242:                 ? For optimal appearance, ensure "Background graphics" is enabled and margins are set to "Non
243:                 print settings.
244:             </li>
245:             <li>? The report is optimized for A4 paper size in portrait orientation.</li>
246:         </ul>
247:     </div>
248: </CardContent>
249: </Card>
250: )
251: }

```

File: components\admin\preventive-health-admin.tsx

```

=====
1: "use client"
2:
3: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@components/ui/card"
4: import { Input } from "@components/ui/input"
5: import { Label } from "@components/ui/label"
6: import { Button } from "@components/ui/button"
7: import { Save, RotateCcw, Plus, Trash2 } from "lucide-react"
8: import { Checkbox } from "@components/ui/checkbox"
9: import type { PreventiveHealth } from "@types/report-types"
10:
11: interface PreventiveHealthAdminProps {
12:     preventiveHealth: PreventiveHealth
13:     updatePreventiveHealth: (section: keyof PreventiveHealth, data: any) => void
14:     onSave: () => void
15:     onReset: () => void
16: }
17:
18: export default function PreventiveHealthAdmin({
19:     preventiveHealth,
20:     updatePreventiveHealth,
21:     onSave,
22:     onReset,
23: }: PreventiveHealthAdminProps) {
24:     const addDiagnosticTest = (type: "halfYearly" | "yearly") => {
25:         updatePreventiveHealth("diagnosticTests", {
26:             ...preventiveHealth.diagnosticTests,
27:             [type]: [...preventiveHealth.diagnosticTests[type], ""],
28:         })
29:     }
30:
31:     const updateDiagnosticTest = (type: "halfYearly" | "yearly", index: number, value: string) => {
32:         const newTests = [...preventiveHealth.diagnosticTests[type]]
33:         newTests[index] = value
34:         updatePreventiveHealth("diagnosticTests", {
35:             ...preventiveHealth.diagnosticTests,
36:             [type]: newTests,
37:         })
38:     }
39:
40:     const removeDiagnosticTest = (type: "halfYearly" | "yearly", index: number) => {
41:         updatePreventiveHealth("diagnosticTests", {
42:             ...preventiveHealth.diagnosticTests,
43:             [type]: preventiveHealth.diagnosticTests[type].filter((_, i) => i !== index),

```

```

44:     })
45:   }
46:
47:   const addNutritionalSupplement = () => {
48:     updatePreventiveHealth("nutritionalSupplements", [
49:       ...preventiveHealth.nutritionalSupplements,
50:       { supplement: "", needed: true },
51:     ])
52:   }
53:
54:   const updateNutritionalSupplement = (index: number, field: "supplement" | "needed", value: string | boolean) => {
55:     const newSupplements = [...preventiveHealth.nutritionalSupplements]
56:     newSupplements[index] = { ...newSupplements[index], [field]: value }
57:     updatePreventiveHealth("nutritionalSupplements", newSupplements)
58:   }
59:
60:   const removeNutritionalSupplement = (index: number) => {
61:     updatePreventiveHealth(
62:       "nutritionalSupplements",
63:       preventiveHealth.nutritionalSupplements.filter((_, i) => i !== index),
64:     )
65:   }
66:
67:   return (
68:     <Card className="shadow-lg border-0 bg-white">
69:       <CardHeader className="bg-gradient-to-r from-teal-500 to-cyan-600 text-white rounded-t-lg">
70:         <CardTitle className="text-2xl">? Preventive Health</CardTitle>
71:         <CardDescription className="text-teal-100">
72:           Manage recommended diagnostic tests and nutritional supplements based on genetic insights
73:         </CardDescription>
74:       </CardHeader>
75:       <CardContent className="space-y-8 p-8">
76:         { /* Action Buttons */ }
77:         <div className="flex justify-end gap-2 mb-6">
78:           <Button onClick={onReset} variant="outline" size="sm">
79:             <RotateCcw className="h-4 w-4 mr-2" />
80:             Reset
81:           </Button>
82:           <Button onClick={onSave} size="sm">
83:             <Save className="h-4 w-4 mr-2" />
84:             Save Changes
85:           </Button>
86:         </div>
87:
88:         { /* Diagnostic Tests Section */ }
89:         <div className="space-y-4">
90:           <h3 className="text-xl font-semibold text-gray-800 border-b-2 border-teal-200 pb-2">? Diagnostic Tests</h3>
91:           <div className="grid md:grid-cols-2 gap-6">
92:             { /* Half-Yearly Tests */ }
93:             <Card className="border-2 border-blue-100 bg-blue-50/30">
94:               <CardHeader className="pb-3">
95:                 <CardTitle className="text-lg text-blue-800 flex justify-between items-center">
96:                   Half-Yearly Tests
97:                   <Button
98:                     onClick={() => addDiagnosticTest("halfYearly")}
99:                     size="sm"
100:                    variant="outline"
101:                    className="text-xs"
102:                  >
103:                    <Plus className="h-3 w-3 mr-1" /> Add Test
104:                  </Button>
105:                </CardTitle>
106:              </CardHeader>
107:              <CardContent className="space-y-3">
108:                {preventiveHealth.diagnosticTests.halfYearly.map((test, index) => (
109:                  <div key={index} className="flex items-center gap-2">
110:                    <Input
111:                      value={test}
112:                      onChange={(e) => updateDiagnosticTest("halfYearly", index, e.target.value)}
113:                      placeholder="e.g., PLASMA SUGAR (FASTING & PP)"
114:                      className="border-2 focus:border-blue-500 text-sm"
115:                    />
116:                    <Button

```

```

117:         onClick={() => removeDiagnosticTest("halfYearly", index)}
118:         size="sm"
119:         variant="destructive"
120:         className="px-2"
121:     >
122:         <Trash2 className="h-3 w-3" />
123:     </Button>
124: </div>
125: ))}
126: {preventiveHealth.diagnosticTests.halfYearly.length === 0 && (
127:     <p className="text-sm text-gray-500 italic">No half-yearly tests added.</p>
128: )}
129: </CardContent>
130: </Card>
131:
132: { /* Yearly Tests */}
133: <Card className="border-2 border-green-100 bg-green-50/30">
134:     <CardHeader className="pb-3">
135:         <CardTitle className="text-lg text-green-800 flex justify-between items-center">
136:             Yearly Tests
137:             <Button onClick={() => addDiagnosticTest("yearly")} size="sm" variant="outline" className="
138:                 <Plus className="h-3 w-3 mr-1" /> Add Test
139:             </Button>
140:         </CardTitle>
141:     </CardHeader>
142:     <CardContent className="space-y-3">
143:         {preventiveHealth.diagnosticTests.yearly.map((test, index) => (
144:             <div key={index} className="flex items-center gap-2">
145:                 <Input
146:                     value={test}
147:                     onChange={(e) => updateDiagnosticTest("yearly", index, e.target.value)}
148:                     placeholder="e.g., HbA1c"
149:                     className="border-2 focus:border-green-500 text-sm"
150:                 />
151:                 <Button
152:                     onClick={() => removeDiagnosticTest("yearly", index)}
153:                     size="sm"
154:                     variant="destructive"
155:                     className="px-2"
156:                 >
157:                     <Trash2 className="h-3 w-3" />
158:                 </Button>
159:             </div>
160:         ))}
161:         {preventiveHealth.diagnosticTests.yearly.length === 0 && (
162:             <p className="text-sm text-gray-500 italic">No yearly tests added.</p>
163:         )}
164:     </CardContent>
165: </Card>
166: </div>
167: </div>
168:
169: { /* Nutritional Supplements Section */}
170: <div className="space-y-4">
171:     <h3 className="text-xl font-semibold text-gray-800 border-b-2 border-teal-200 pb-2">
172:         ? Nutritional Supplements
173:     </h3>
174:     <Card className="border-2 border-purple-100 bg-purple-50/30">
175:         <CardHeader className="pb-3">
176:             <CardTitle className="text-lg text-purple-800 flex justify-between items-center">
177:                 Recommended Supplements
178:                 <Button
179:                     onClick={addNutritionalSupplement}
180:                     size="sm"
181:                     variant="outline"
182:                     className="text-xs bg-transparent"
183:                 >
184:                     <Plus className="h-3 w-3 mr-1" /> Add Supplement
185:                 </Button>
186:             </CardTitle>
187:         </CardHeader>
188:         <CardContent className="space-y-3">
189:             {preventiveHealth.nutritionalSupplements.map((supplement, index) => (

```

```

190:         <div key={index} className="grid grid-cols-[1fr_auto_auto] items-center gap-2">
191:             <Input
192:                 value={supplement.supplement}
193:                 onChange={e => updateNutritionalSupplement(index, "supplement", e.target.value)}
194:                 placeholder="e.g., VITAMIN D"
195:                 className="border-2 focus:border-purple-500 text-sm"
196:             />
197:             <div className="flex items-center space-x-2">
198:                 <Checkbox
199:                     id={`needed-${index}`}
200:                     checked={supplement.needed}
201:                     onChange={checked: boolean => updateNutritionalSupplement(index, "needed", checked)}
202:                 />
203:                 <Label htmlFor={`needed-${index}`} className="text-sm">
204:                     Needed
205:                 </Label>
206:             </div>
207:             <Button
208:                 onClick={() => removeNutritionalSupplement(index)}
209:                 size="sm"
210:                 variant="destructive"
211:                 className="px-2"
212:             >
213:                 <Trash2 className="h-3 w-3" />
214:             </Button>
215:         </div>
216:     ))}
217:     {preventiveHealth.nutritionalSupplements.length === 0 && (
218:         <p className="text-sm text-gray-500 italic">No nutritional supplements added.</p>
219:     )}
220: </CardContent>
221: </Card>
222: </div>
223:
224: { /* Section Guidelines */ }
225: <div className="bg-teal-50 border-2 border-teal-200 rounded-lg p-6">
226:     <h4 className="font-semibold text-teal-800 mb-2">? Preventive Health Guidelines:</h4>
227:     <div className="text-sm text-teal-700 space-y-2">
228:         <ul className="list-disc list-inside space-y-1">
229:             <li>
230:                 This section helps determine the requirement of nutrients in form of supplements and period
231:                 parameters.
232:             </li>
233:             <li>
234:                 <strong>Diagnostic Tests:</strong> Suggests blood tests or other diagnostics to be done hal
235:                 yearly based on genetic predispositions.
236:             </li>
237:             <li>
238:                 <strong>Nutritional Supplements:</strong> Recommends specific supplements and indicates whe
239:                 needed based on genetic analysis.
240:             </li>
241:             <li>Always consult with a healthcare professional before initiating supplement consumption.</li>
242:         </ul>
243:     </div>
244: </div>
245: </CardContent>
246: </Card>
247: )
248: }

```

■ File: components\admin\report-content-admin.tsx

```

=====
1: "use client"
2:
3: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@components/ui/card"
4: import { Label } from "@components/ui/label"
5: import { Textarea } from "@components/ui/textarea"
6: import { Button } from "@components/ui/button"
7: import { Save, RotateCcw } from "lucide-react"
8: import type { ReportContent } from "@types/report-types"
9:

```

```

10: interface ReportContentAdminProps {
11:   content: ReportContent
12:   updateContent: (field: keyof ReportContent, value: string) => void
13:   onSave: () => void
14:   onReset: () => void
15: }
16:
17: export default function ReportContentAdmin({ content, updateContent, onSave, onReset }: ReportContentAdminP
18:   return (
19:     <Card className="shadow-lg border-0 bg-white">
20:       <CardHeader className="bg-gradient-to-r from-green-500 to-teal-600 text-white rounded-t-lg">
21:         <CardTitle className="text-2xl"> Report Content</CardTitle>
22:         <CardDescription className="text-green-100">Edit the main content sections of the report</CardDescr
23:       </CardHeader>
24:       <CardContent className="space-y-8 p-8">
25:         { /* Action Buttons */ }
26:         <div className="flex justify-end gap-2 mb-6">
27:           <Button onClick={onReset} variant="outline" size="sm">
28:             <RotateCcw className="h-4 w-4 mr-2" />
29:             Reset
30:           </Button>
31:           <Button onClick={onSave} size="sm">
32:             <Save className="h-4 w-4 mr-2" />
33:             Save Changes
34:           </Button>
35:         </div>
36:
37:         { /* <div className="space-y-3">
38:           <Label htmlFor="disclaimer" className="text-lg font-semibold text-gray-800">
39:             ?? Disclaimer
40:           </Label>
41:           <Textarea
42:             id="disclaimer"
43:             value={content.disclaimer}
44:             onChange={(e) => updateContent("disclaimer", e.target.value)}
45:             placeholder="Enter disclaimer text"
46:             rows={10}
47:             className="border-2 focus:border-green-500 text-sm leading-relaxed"
48:           />
49:         </div> */ }
50:         <div className="space-y-3">
51:           <Label htmlFor="introduction" className="text-lg font-semibold text-gray-800">
52:             ? Welcome Letter Introduction
53:           </Label>
54:           <Textarea
55:             id="introduction"
56:             value={content.introduction}
57:             onChange={(e) => updateContent("introduction", e.target.value)}
58:             placeholder="Enter introduction text"
59:             rows={8}
60:             className="border-2 focus:border-green-500 text-sm leading-relaxed"
61:           />
62:         </div>
63:         <div className="space-y-3">
64:           <Label htmlFor="genomicsExplanation" className="text-lg font-semibold text-gray-800">
65:             ? What is Genomics?
66:           </Label>
67:           <Textarea
68:             id="genomicsExplanation"
69:             value={content.genomicsExplanation}
70:             onChange={(e) => updateContent("genomicsExplanation", e.target.value)}
71:             placeholder="Enter genomics explanation"
72:             rows={8}
73:             className="border-2 focus:border-green-500 text-sm leading-relaxed"
74:           />
75:         </div>
76:         <div className="space-y-3">
77:           <Label htmlFor="genesHealthImpact" className="text-lg font-semibold text-gray-800">
78:             ? Genes and Health Impact
79:           </Label>
80:           <Textarea
81:             id="genesHealthImpact"
82:             value={content.genesHealthImpact}

```

```

83:         onChange={(e) => updateContent("genesHealthImpact", e.target.value)}
84:         placeholder="Enter genes and health impact content"
85:         rows={8}
86:         className="border-2 focus:border-green-500 text-sm leading-relaxed"
87:     />
88: </div>
89: <div className="space-y-3">
90:     <Label htmlFor="fundamentalsPRS" className="text-lg font-semibold text-gray-800">
91:         ? Fundamentals and PRS
92:     </Label>
93:     <Textarea
94:         id="fundamentalsPRS"
95:         value={content.fundamentalsPRS}
96:         onChange={(e) => updateContent("fundamentalsPRS", e.target.value)}
97:         placeholder="Enter fundamentals and PRS content"
98:         rows={8}
99:         className="border-2 focus:border-green-500 text-sm leading-relaxed"
100:     />
101: </div>
102: <div className="space-y-3">
103:     <Label htmlFor="utilityDoctors" className="text-lg font-semibold text-gray-800">
104:         ??? Utility for Doctors and Dietitians
105:     </Label>
106:     <Textarea
107:         id="utilityDoctors"
108:         value={content.utilityDoctors}
109:         onChange={(e) => updateContent("utilityDoctors", e.target.value)}
110:         placeholder="Enter utility for doctors content"
111:         rows={8}
112:         className="border-2 focus:border-green-500 text-sm leading-relaxed"
113:     />
114: </div>
115: <div className="space-y-3">
116:     <Label htmlFor="microarrayExplanation" className="text-lg font-semibold text-gray-800">
117:         ? Microarray Explanation
118:     </Label>
119:     <Textarea
120:         id="microarrayExplanation"
121:         value={content.microarrayExplanation}
122:         onChange={(e) => updateContent("microarrayExplanation", e.target.value)}
123:         placeholder="Enter microarray explanation"
124:         rows={8}
125:         className="border-2 focus:border-green-500 text-sm leading-relaxed"
126:     />
127: </div>
128: <div className="space-y-3">
129:     <Label htmlFor="microarrayData" className="text-lg font-semibold text-gray-800">
130:         ? Your Microarray Data
131:     </Label>
132:     <Textarea
133:         id="microarrayData"
134:         value={content.microarrayData}
135:         onChange={(e) => updateContent("microarrayData", e.target.value)}
136:         placeholder="Enter microarray data content"
137:         rows={8}
138:         className="border-2 focus:border-green-500 text-sm leading-relaxed"
139:     />
140: </div>
141: </CardContent>
142: </Card>
143: )
144: }

```

■ File: components\admin\report-settings-admin.tsx

```

=====
1: "use client"
2:
3: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@components/ui/card"
4: import { Input } from "@components/ui/input"
5: import { Label } from "@components/ui/label"
6: import { Button } from "@components/ui/button"

```

```

7: import { Save, RotateCcw } from "lucide-react"
8: import type { ReportSettings } from "@types/report-types"
9:
10: interface ReportSettingsAdminProps {
11:   settings: ReportSettings
12:   updateSettings: (field: keyof ReportSettings, value: string) => void
13:   onSave: () => void
14:   onReset: () => void
15: }
16:
17: export default function ReportSettingsAdmin({ settings, updateSettings, onSave, onReset }: ReportSettingsAdminProps) {
18:   return (
19:     <Card className="shadow-lg border-0 bg-white">
20:       <CardHeader className="bg-gradient-to-r from-purple-500 to-pink-600 text-white rounded-t-lg">
21:         <CardTitle className="text-2xl">? Report Settings</CardTitle>
22:         <CardDescription className="text-purple-100">
23:           Customize the appearance and branding of your report
24:         </CardDescription>
25:       </CardHeader>
26:       <CardContent className="space-y-6 p-8">
27:         { /* Action Buttons */ }
28:         <div className="flex justify-end gap-2 mb-6">
29:           <Button onClick={onReset} variant="outline" size="sm">
30:             <RotateCcw className="h-4 w-4 mr-2" />
31:             Reset
32:           </Button>
33:           <Button onClick={onSave} size="sm">
34:             <Save className="h-4 w-4 mr-2" />
35:             Save Changes
36:           </Button>
37:         </div>
38:
39:         <div className="grid md:grid-cols-2 gap-6">
40:           <div className="space-y-2">
41:             <Label htmlFor="title" className="text-sm font-semibold text-gray-700">
42:               Report Title
43:             </Label>
44:             <Input
45:               id="title"
46:               value={settings.title}
47:               onChange={(e) => updateSettings("title", e.target.value)}
48:               className="border-2 focus:border-purple-500 font-bold"
49:               placeholder="e.g., Comprehensive Health Report"
50:             />
51:           </div>
52:           <div className="space-y-2">
53:             <Label htmlFor="subtitle" className="text-sm font-semibold text-gray-700">
54:               Report Subtitle
55:             </Label>
56:             <Input
57:               id="subtitle"
58:               value={settings.subtitle}
59:               onChange={(e) => updateSettings("subtitle", e.target.value)}
60:               className="border-2 focus:border-purple-500"
61:               placeholder="e.g., A Detailed Analysis of Your Genetics"
62:             />
63:           </div>
64:           <div className="space-y-2">
65:             <Label htmlFor="companyName" className="text-sm font-semibold text-gray-700">
66:               Company Name
67:             </Label>
68:             <Input
69:               id="companyName"
70:               value={settings.companyName}
71:               onChange={(e) => updateSettings("companyName", e.target.value)}
72:               className="border-2 focus:border-purple-500"
73:               placeholder="e.g., Health Solutions Inc."
74:             />
75:           </div>
76:           <div className="space-y-2">
77:             <Label htmlFor="headerColor" className="text-sm font-semibold text-gray-700">
78:               Header Color
79:             </Label>

```

```

80:         <div className="flex gap-2">
81:             <Input
82:                 id="headerColor"
83:                 type="color"
84:                 value={settings.headerColor}
85:                 onChange={(e) => updateSettings("headerColor", e.target.value)}
86:                 className="w-16 h-10 border-2 focus:border-purple-500"
87:             />
88:             <Input
89:                 value={settings.headerColor}
90:                 onChange={(e) => updateSettings("headerColor", e.target.value)}
91:                 className="flex-1 border-2 focus:border-purple-500 font-mono"
92:                 placeholder="#2C3E50"
93:             />
94:         </div>
95:     </div>
96:     <div className="space-y-2">
97:         <Label htmlFor="accentColor" className="text-sm font-semibold text-gray-700">
98:             Accent Color
99:         </Label>
100:         <div className="flex gap-2">
101:             <Input
102:                 id="accentColor"
103:                 type="color"
104:                 value={settings.accentColor}
105:                 onChange={(e) => updateSettings("accentColor", e.target.value)}
106:                 className="w-16 h-10 border-2 focus:border-purple-500"
107:             />
108:             <Input
109:                 value={settings.accentColor}
110:                 onChange={(e) => updateSettings("accentColor", e.target.value)}
111:                 className="flex-1 border-2 focus:border-purple-500 font-mono"
112:                 placeholder="#E74C3C"
113:             />
114:         </div>
115:     </div>
116: </div>
117:
118: <div className="space-y-4">
119:     <h3 className="text-lg font-semibold text-gray-800 border-b pb-2">Font Settings</h3>
120:     <div className="grid md:grid-cols-3 gap-6">
121:         <div className="space-y-2">
122:             <Label htmlFor="primaryFont" className="text-sm font-semibold text-gray-700">
123:                 Primary Font
124:             </Label>
125:             <Input
126:                 id="primaryFont"
127:                 value={settings.fonts.primary}
128:                 onChange={(e) =>
129:                     updateSettings("fonts", JSON.stringify({ ...settings.fonts, primary: e.target.value }))
130:                 }
131:                 className="border-2 focus:border-purple-500"
132:                 placeholder="e.g., Helvetica, Arial, sans-serif"
133:             />
134:         </div>
135:         <div className="space-y-2">
136:             <Label htmlFor="secondaryFont" className="text-sm font-semibold text-gray-700">
137:                 Secondary Font
138:             </Label>
139:             <Input
140:                 id="secondaryFont"
141:                 value={settings.fonts.secondary}
142:                 onChange={(e) =>
143:                     updateSettings("fonts", JSON.stringify({ ...settings.fonts, secondary: e.target.value }))
144:                 }
145:                 className="border-2 focus:border-purple-500"
146:                 placeholder="e.g., Georgia, serif"
147:             />
148:         </div>
149:         <div className="space-y-2">
150:             <Label htmlFor="monoFont" className="text-sm font-semibold text-gray-700">
151:                 Monospace Font
152:             </Label>

```



```

153:         <Input
154:             id="monoFont"
155:             value={settings.fonts.mono}
156:             onChange={(e) => updateSettings("fonts", JSON.stringify({ ...settings.fonts, mono: e.target
157:                 className="border-2 focus:border-purple-500"
158:                 placeholder="e.g., Courier New, monospace"
159:             />
160:         </div>
161:     </div>
162: </div>
163:
164:     <div className="bg-purple-50 border-2 border-purple-200 rounded-lg p-4">
165:         <h4 className="font-semibold text-purple-800 mb-2">? Customization Tips:</h4>
166:         <ul className="text-sm text-purple-700 space-y-1">
167:             <li>? Use hex codes for precise color matching (e.g., #RRGGBB).</li>
168:             <li>? Choose fonts that align with your brand's aesthetic.</li>
169:             <li>? Ensure sufficient contrast for readability, especially for text.</li>
170:         </ul>
171:     </div>
172: </CardContent>
173: </Card>
174: )
175: }

```

■ File: components\admin\report-summaries-admin.tsx

```

1: "use client"
2:
3: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@components/ui/card"
4: import { Label } from "@components/ui/label"
5: import { Textarea } from "@components/ui/textarea"
6: import { Button } from "@components/ui/button"
7: import { Save, RotateCcw } from "lucide-react"
8: import type { ReportSummaries } from "@types/report-types"
9:
10: interface ReportSummariesAdminProps {
11:     summaries: ReportSummaries
12:     updateSummaries: (field: keyof ReportSummaries, value: string) => void
13:     onSave: () => void
14:     onReset: () => void
15: }
16:
17: export default function ReportSummariesAdmin({
18:     summaries,
19:     updateSummaries,
20:     onSave,
21:     onReset,
22: }: ReportSummariesAdminProps) {
23:     return (
24:         <Card className="shadow-lg border-0 bg-white">
25:             <CardHeader className="bg-gradient-to-r from-violet-500 to-purple-600 text-white rounded-t-lg">
26:                 <CardTitle className="text-2xl">? Report Summaries</CardTitle>
27:                 <CardDescription className="text-violet-100">Edit the summary sections for experts</CardDescription>
28:             </CardHeader>
29:             <CardContent className="space-y-8 p-8">
30:                 { /* Action Buttons */ }
31:                 <div className="flex justify-end gap-2 mb-6">
32:                     <Button onClick={onReset} variant="outline" size="sm">
33:                         <RotateCcw className="h-4 w-4 mr-2" />
34:                         Reset
35:                     </Button>
36:                     <Button onClick={onSave} size="sm">
37:                         <Save className="h-4 w-4 mr-2" />
38:                         Save Changes
39:                     </Button>
40:                 </div>
41:
42:                 <div className="grid md:grid-cols-2 gap-8">
43:                     <div className="space-y-3">
44:                         <Label htmlFor="nutrigenomicsSummary" className="text-lg font-semibold text-gray-800">
45:                             ? Nutrigenomics Summary

```

```

46:         </Label>
47:         <p className="text-sm text-gray-600">For the nutrigenomics expert</p>
48:         <Textarea
49:             id="nutrigenomicsSummary"
50:             value={summaries.nutrigenomicsSummary}
51:             onChange={(e) => updateSummaries("nutrigenomicsSummary", e.target.value)}
52:             rows={8}
53:             className="border-2 focus:border-violet-500"
54:             placeholder="Based on the overall nutrigenomics analysis, provide expert summary for personal
55:         />
56:     </div>
57:     <div className="space-y-3">
58:         <Label htmlFor="exerciseGenomicsSummary" className="text-lg font-semibold text-gray-800">
59:             ??? Exercise Genomics Summary
60:         </Label>
61:         <p className="text-sm text-gray-600">For the fitness genomics expert</p>
62:         <Textarea
63:             id="exerciseGenomicsSummary"
64:             value={summaries.exerciseGenomicsSummary}
65:             onChange={(e) => updateSummaries("exerciseGenomicsSummary", e.target.value)}
66:             rows={8}
67:             className="border-2 focus:border-violet-500"
68:             placeholder="Based on the overall genomics analysis, provide expert summary for personalized
69:         />
70:     </div>
71: </div>
72:
73: <div className="bg-blue-50 border-2 border-blue-200 rounded-lg p-6">
74:     <h4 className="font-semibold text-blue-800 mb-2">? Expert Summary Guidelines:</h4>
75:     <ul className="text-sm text-blue-700 space-y-1">
76:         <li>? Provide actionable insights based on genetic analysis</li>
77:         <li>? Include specific recommendations for healthcare professionals</li>
78:         <li>? Reference key genetic markers and their implications</li>
79:         <li>? Suggest monitoring parameters and intervention strategies</li>
80:         <li>? Keep language professional yet accessible</li>
81:     </ul>
82: </div>
83: </CardContent>
84: </Card>
85: )
86: }

```

File: components\admin\settings-admin.tsx

```

1: "use client"
2:
3: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@/components/ui/card"
4: import { Input } from "@/components/ui/input"
5: import { Label } from "@/components/ui/label"
6: import { Button } from "@/components/ui/button" // Import Button
7: import { Save, RotateCcw } from "lucide-react" // Import icons
8: import type { ReportSettings } from "@/types/report-types"
9:
10: interface SettingsAdminProps {
11:     settings: ReportSettings
12:     updateSettings: (field: keyof ReportSettings, value: string) => void
13:     onSave: () => void // Added onSave
14:     onReset: () => void // Added onReset
15: }
16:
17: export default function SettingsAdmin({ settings, updateSettings, onSave, onReset }: SettingsAdminProps) {
18:     return (
19:         <Card className="shadow-lg border-0 bg-white">
20:             <CardHeader className="bg-gradient-to-r from-purple-500 to-pink-600 text-white rounded-t-lg">
21:                 <CardTitle className="text-2xl">? Report Settings</CardTitle>
22:                 <CardDescription className="text-purple-100">
23:                     Customize the appearance and branding of your report
24:                 </CardDescription>
25:             </CardHeader>
26:             <CardContent className="space-y-6 p-8">
27:                 { /* Action Buttons */ }

```

```

28:     <div className="flex justify-end gap-2 mb-6">
29:         <Button onClick={onReset} variant="outline" size="sm">
30:             <RotateCcw className="h-4 w-4 mr-2" />
31:             Reset
32:         </Button>
33:         <Button onClick={onSave} size="sm">
34:             <Save className="h-4 w-4 mr-2" />
35:             Save Changes
36:         </Button>
37:     </div>
38:
39:     <div className="grid md:grid-cols-2 gap-6">
40:         <div className="space-y-2">
41:             <Label htmlFor="title" className="text-sm font-semibold text-gray-700">
42:                 Report Title
43:             </Label>
44:             <Input
45:                 id="title"
46:                 value={settings.title}
47:                 onChange={(e) => updateSettings("title", e.target.value)}
48:                 className="border-2 focus:border-purple-500 font-bold"
49:             />
50:         </div>
51:         <div className="space-y-2">
52:             <Label htmlFor="subtitle" className="text-sm font-semibold text-gray-700">
53:                 Report Subtitle
54:             </Label>
55:             <Input
56:                 id="subtitle"
57:                 value={settings.subtitle}
58:                 onChange={(e) => updateSettings("subtitle", e.target.value)}
59:                 className="border-2 focus:border-purple-500"
60:             />
61:         </div>
62:         <div className="space-y-2">
63:             <Label htmlFor="companyName" className="text-sm font-semibold text-gray-700">
64:                 Company Name
65:             </Label>
66:             <Input
67:                 id="companyName"
68:                 value={settings.companyName}
69:                 onChange={(e) => updateSettings("companyName", e.target.value)}
70:                 className="border-2 focus:border-purple-500"
71:             />
72:         </div>
73:         <div className="space-y-2">
74:             <Label htmlFor="headerColor" className="text-sm font-semibold text-gray-700">
75:                 Header Color
76:             </Label>
77:             <div className="flex gap-2">
78:                 <Input
79:                     id="headerColor"
80:                     type="color"
81:                     value={settings.headerColor}
82:                     onChange={(e) => updateSettings("headerColor", e.target.value)}
83:                     className="w-16 h-10 border-2 focus:border-purple-500"
84:                 />
85:                 <Input
86:                     value={settings.headerColor}
87:                     onChange={(e) => updateSettings("headerColor", e.target.value)}
88:                     className="flex-1 border-2 focus:border-purple-500 font-mono"
89:                 />
90:             </div>
91:         </div>
92:         <div className="space-y-2">
93:             <Label htmlFor="accentColor" className="text-sm font-semibold text-gray-700">
94:                 Accent Color
95:             </Label>
96:             <div className="flex gap-2">
97:                 <Input
98:                     id="accentColor"
99:                     type="color"
100:                     value={settings.accentColor}

```

```

101:         onChange={(e) => updateSettings("accentColor", e.target.value)}
102:         className="w-16 h-10 border-2 focus:border-purple-500"
103:     />
104:     <Input
105:         value={settings.accentColor}
106:         onChange={(e) => updateSettings("accentColor", e.target.value)}
107:         className="flex-1 border-2 focus:border-purple-500 font-mono"
108:     />
109: </div>
110: </div>
111: <div className="space-y-2">
112:     <Label htmlFor="primaryFont" className="text-sm font-semibold text-gray-700">
113:         Primary Font
114:     </Label>
115:     <Input
116:         id="primaryFont"
117:         value={settings.fonts.primary}
118:         onChange={(e) => updateSettings("fonts", { ...settings.fonts, primary: e.target.value })}
119:         placeholder="e.g., Helvetica, Arial, sans-serif"
120:         className="border-2 focus:border-purple-500"
121:     />
122: </div>
123: <div className="space-y-2">
124:     <Label htmlFor="secondaryFont" className="text-sm font-semibold text-gray-700">
125:         Secondary Font
126:     </Label>
127:     <Input
128:         id="secondaryFont"
129:         value={settings.fonts.secondary}
130:         onChange={(e) => updateSettings("fonts", { ...settings.fonts, secondary: e.target.value })}
131:         placeholder="e.g., Georgia, serif"
132:         className="border-2 focus:border-purple-500"
133:     />
134: </div>
135: <div className="space-y-2">
136:     <Label htmlFor="monoFont" className="text-sm font-semibold text-gray-700">
137:         Monospace Font
138:     </Label>
139:     <Input
140:         id="monoFont"
141:         value={settings.fonts.mono}
142:         onChange={(e) => updateSettings("fonts", { ...settings.fonts, mono: e.target.value })}
143:         placeholder="e.g., Courier New, monospace"
144:         className="border-2 focus:border-purple-500"
145:     />
146: </div>
147: </div>
148: </CardContent>
149: </Card>
150: )
151: }

```

■ File: components\admin\sleep-rest-admin.tsx

```

=====
1: "use client"
2:
3: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@components/ui/card"
4: import { Input } from "@components/ui/input"
5: import { Label } from "@components/ui/label"
6: import { Textarea } from "@components/ui/textarea"
7: import { Button } from "@components/ui/button"
8: import { Save, RotateCcw } from "lucide-react"
9: import type { SleepAndRest, SleepData } from "@types/report-types"
10:
11: interface SleepRestAdminProps {
12:     sleepAndRest: SleepAndRest
13:     updateSleepAndRest: (field: keyof SleepAndRest, data: Partial<SleepData>) => void
14:     onSave: () => void
15:     onReset: () => void
16: }
17:

```

```

18: export default function SleepRestAdmin({ sleepAndRest, updateSleepAndRest, onSave, onReset }: SleepRestAdminProps) {
19:   const renderSleepField = (field: keyof SleepAndRest, data: SleepData, title: string) => (
20:     <Card key={field} className="border-2 border-indigo-100 bg-indigo-50/30">
21:       <CardHeader className="pb-3">
22:         <CardTitle className="text-lg text-indigo-800">{title}</CardTitle>
23:       </CardHeader>
24:       <CardContent className="space-y-4">
25:         <div className="space-y-2">
26:           <Label className="text-sm font-medium">Genetic Impact</Label>
27:           <Input
28:             value={data.impact}
29:             onChange={(e) => updateSleepAndRest(field, { impact: e.target.value })}
30:             placeholder="e.g., DELAYED SLEEP CYCLE"
31:             className="border-2 focus:border-indigo-500"
32:           />
33:         </div>
34:         <div className="space-y-2">
35:           <Label className="text-sm font-medium">Intervention Needed</Label>
36:           <Textarea
37:             value={data.intervention}
38:             onChange={(e) => updateSleepAndRest(field, { intervention: e.target.value })}
39:             rows={3}
40:             className="border-2 focus:border-indigo-500 text-sm"
41:             placeholder="e.g., EXERCISE IN THE EVENING AVOID CARBS DURING BREAKFAST"
42:           />
43:         </div>
44:       </CardContent>
45:     </Card>
46:   )
47:
48:   return (
49:     <Card className="shadow-lg border-0 bg-white">
50:       <CardHeader className="bg-gradient-to-r from-indigo-500 to-blue-600 text-white rounded-t-lg">
51:         <CardTitle className="text-2xl">? Sleep & Rest</CardTitle>
52:         <CardDescription className="text-indigo-100">
53:           Manage genetic influences on sleep patterns, quality, and stress sensitivity
54:         </CardDescription>
55:       </CardHeader>
56:       <CardContent className="space-y-8 p-8">
57:         { /* Action Buttons */ }
58:         <div className="flex justify-end gap-2 mb-6">
59:           <Button onClick={onReset} variant="outline" size="sm">
60:             <RotateCcw className="h-4 w-4 mr-2" />
61:             Reset
62:           </Button>
63:           <Button onClick={onSave} size="sm">
64:             <Save className="h-4 w-4 mr-2" />
65:             Save Changes
66:           </Button>
67:         </div>
68:
69:         { /* Sleep & Rest Fields */ }
70:         <div className="grid md:grid-cols-2 lg:grid-cols-2 gap-6">
71:           {Object.entries(sleepAndRest).map(([key, item]) =>
72:             renderSleepField(
73:               key as keyof SleepAndRest,
74:               item as SleepData,
75:               key.replace(/[A-Z])/g, " $1").replace(/^./, (str) => str.toUpperCase()),
76:             ),
77:           )}
78:         </div>
79:
80:         { /* Section Guidelines */ }
81:         <div className="bg-indigo-50 border-2 border-indigo-200 rounded-lg p-6">
82:           <h4 className="font-semibold text-indigo-800 mb-2">? Sleep & Rest Guidelines:</h4>
83:           <div className="text-sm text-indigo-700 space-y-2">
84:             <ul className="list-disc list-inside space-y-1">
85:               <li>
86:                 <strong>Sleep Cycle:</strong> Genetic influence on circadian rhythms and sleep timing.
87:               </li>
88:               <li>
89:                 <strong>Sleep Apnea:</strong> Genetic predisposition to sleep-disordered breathing.
90:               </li>

```

```

91:         <li>
92:             <strong>Sleep Depth:</strong> Genetic factors affecting the quality and restorative nature
93:         </li>
94:         <li>
95:             <strong>Stress Sensitivity:</strong> Genetic tendency to react to stress, impacting sleep.
96:         </li>
97:         <li>Understanding these factors can guide personalized approaches to sleep health management.
98:         <li>Sleep is crucial for overall physical and mental well-being.</li>
99:     </ul>
100: </div>
101: </div>
102: </CardContent>
103: </Card>
104: )
105: }

```

■ File: components\admin\sports-fitness-admin.tsx

```

1: "use client"
2:
3: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@/components/ui/card"
4: import { Input } from "@/components/ui/input"
5: import { Label } from "@/components/ui/label"
6: import { Textarea } from "@/components/ui/textarea"
7: import { Button } from "@/components/ui/button"
8: import { Save, RotateCcw } from "lucide-react"
9: import { useState } from "react"
10: import type { SportsAndFitness, ExerciseData } from "@/types/report-types"
11:
12: interface SportsFitnessAdminProps {
13:   sportsAndFitness: SportsAndFitness
14:   updateSportsAndFitness: (section: keyof SportsAndFitness, field: string, data: Partial<ExerciseData>) => void
15:   onSave: () => void
16:   onReset: () => void
17: }
18:
19: export default function SportsFitnessAdmin({
20:   sportsAndFitness,
21:   updateSportsAndFitness,
22:   onSave,
23:   onReset,
24: }: SportsFitnessAdminProps) {
25:   const [activeSection, setActiveSection] = useState<keyof SportsAndFitness>("exerciseType")
26:
27:   const renderExerciseField = (section: keyof SportsAndFitness, field: string, data: ExerciseData, title: string) => {
28:     <Card key={field} className="border-2 border-green-100 bg-green-50/30">
29:       <CardHeader className="pb-3">
30:         <CardTitle className="text-lg text-green-800">{title}</CardTitle>
31:       </CardHeader>
32:       <CardContent className="space-y-4">
33:         <div className="space-y-2">
34:           <Label className="text-sm font-medium">Level</Label>
35:           <Input
36:             value={data.level}
37:             onChange={(e) => updateSportsAndFitness(section, field, { level: e.target.value })}
38:             placeholder="e.g., High Endurance Potential"
39:             className="border-2 focus:border-green-500"
40:           />
41:         </div>
42:         <div className="space-y-2">
43:           <Label className="text-sm font-medium">Description</Label>
44:           <Textarea
45:             value={data.description}
46:             onChange={(e) => updateSportsAndFitness(section, field, { description: e.target.value })}
47:             rows={3}
48:             className="border-2 focus:border-green-500 text-sm"
49:           />
50:         </div>
51:       </CardContent>
52:     </Card>
53:   )

```

```

54:
55: const getSectionTitle = (section: keyof SportsAndFitness) => {
56:   switch (section) {
57:     case "exerciseType":
58:       return "???? Exercise Type Suitability"
59:     case "performance":
60:       return "? Performance Factors"
61:     default:
62:       return section
63:   }
64: }
65:
66: const getSectionIcon = (section: keyof SportsAndFitness) => {
67:   switch (section) {
68:     case "exerciseType":
69:       return "?????"
70:     case "performance":
71:       return "?"
72:     default:
73:       return "?"
74:   }
75: }
76:
77: return (
78:   <Card className="shadow-lg border-0 bg-white">
79:     <CardHeader className="bg-gradient-to-r from-green-500 to-emerald-600 text-white rounded-t-lg">
80:       <CardTitle className="text-2xl">???? Sports & Fitness</CardTitle>
81:       <CardDescription className="text-green-100">
82:         Configure exercise type suitability and performance factors
83:       </CardDescription>
84:     </CardHeader>
85:     <CardContent className="space-y-8 p-8">
86:       { /* Action Buttons */ }
87:       <div className="flex justify-between items-center">
88:         <div className="flex gap-2 flex-wrap">
89:           {(Object.keys(sportsAndFitness) as Array<keyof SportsAndFitness>).map((section) => (
90:             <Button
91:               key={section}
92:               variant={activeSection === section ? "default" : "outline"}
93:               size="sm"
94:               onClick={() => setActiveSection(section)}
95:               className="flex items-center gap-2"
96:             >
97:               <span>{getSectionIcon(section)}</span>
98:               <span className="capitalize">{section.replace(/[A-Z]/g, " $1")}</span>
99:             </Button>
100:           ))}
101:         </div>
102:         <div className="flex gap-2">
103:           <Button onClick={onReset} variant="outline" size="sm">
104:             <RotateCcw className="h-4 w-4 mr-2" />
105:             Reset
106:           </Button>
107:           <Button onClick={onSave} size="sm">
108:             <Save className="h-4 w-4 mr-2" />
109:             Save Changes
110:           </Button>
111:         </div>
112:       </div>
113:
114:       { /* Section Content */ }
115:       <div className="space-y-6">
116:         <h3 className="text-xl font-semibold text-gray-800 border-b-2 border-green-200 pb-2">
117:           {getSectionTitle(activeSection)}
118:         </h3>
119:
120:         <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-6">
121:           {Object.entries(sportsAndFitness[activeSection]).map(([key, item]) =>
122:             renderExerciseField(
123:               activeSection,
124:               key,
125:               item as ExerciseData,
126:               key.replace(/[A-Z]/g, " $1").replace(/^../, (str) => str.toUpperCase()),

```

```

127:         ),
128:     )}
129: </div>
130: </div>
131:
132: { /* Section Guidelines */ }
133: <div className="bg-green-50 border-2 border-green-200 rounded-lg p-6">
134:   <h4 className="font-semibold text-green-800 mb-2">? {getSectionTitle(activeSection)} Guidelines:<
135:   <div className="text-sm text-green-700 space-y-2">
136:     {activeSection === "exerciseType" && (
137:       <ul className="list-disc list-inside space-y-1">
138:         <li>
139:           <strong>Endurance Potential:</strong> Genetic predisposition for long-duration activities
140:         </li>
141:         <li>
142:           <strong>Power Potential:</strong> Capacity for short, intense bursts of energy.
143:         </li>
144:         <li>
145:           <strong>Strength Profile:</strong> Genetic tendency for muscle strength and growth.
146:         </li>
147:         <li>
148:           <strong>Exercise Time:</strong> Optimal time of day for exercise based on circadian rhythm
149:         </li>
150:       </ul>
151:     )}
152:     {activeSection === "performance" && (
153:       <ul className="list-disc list-inside space-y-1">
154:         <li>
155:           <strong>Endurance Capacity:</strong> Aerobic efficiency and stamina.
156:         </li>
157:         <li>
158:           <strong>Fatigue Resistance:</strong> Ability to resist muscle fatigue during prolonged ac
159:         </li>
160:         <li>
161:           <strong>Blood Flow:</strong> Efficiency of blood circulation during exercise.
162:         </li>
163:         <li>
164:           <strong>Oxygen Efficiency (VO2 Max):</strong> Body's ability to use oxygen during intense
165:         </li>
166:         <li>
167:           <strong>Water Loss:</strong> Tendency for fluid and electrolyte loss.
168:         </li>
169:         <li>
170:           <strong>Lactate Clearing:</strong> Efficiency in removing lactic acid from muscles.
171:         </li>
172:         <li>
173:           <strong>Recovery Efficiency:</strong> Speed and effectiveness of post-exercise recovery.
174:         </li>
175:         <li>
176:           <strong>Body Composition:</strong> Genetic predisposition for muscle mass vs. fat accumul
177:         </li>
178:         <li>
179:           <strong>Injury Risk:</strong> Genetic susceptibility to various sports-related injuries.
180:         </li>
181:         <li>
182:           <strong>Achilles Tendon/Ligament/Rupture/Muscle Cramps:</strong> Specific injury predispo
183:         </li>
184:       </ul>
185:     )}
186:   </div>
187: </div>
188: </CardContent>
189: </Card>
190: )
191: }

```

File: components\admin\summaries-admin.tsx

```

=====
1: "use client"
2:
3: import { Card, CardContent, CardDescription, CardHeader, CardTitle } from "@components/ui/card"

```



```

4: import { Label } from "@/components/ui/label"
5: import { Textarea } from "@/components/ui/textarea"
6: import { Button } from "@/components/ui/button"
7: import { Save, RotateCcw } from "lucide-react"
8: import type { ReportSummaries } from "@/types/report-types"
9:
10: interface ReportSummariesAdminProps {
11:   summaries: ReportSummaries
12:   updateSummaries: (field: keyof ReportSummaries, value: string) => void
13:   onSave: () => void
14:   onReset: () => void
15: }
16:
17: export default function ReportSummariesAdmin({
18:   summaries,
19:   updateSummaries,
20:   onSave,
21:   onReset,
22: }: ReportSummariesAdminProps) {
23:   return (
24:     <Card className="shadow-lg border-0 bg-white">
25:       <CardHeader className="bg-gradient-to-r from-violet-500 to-purple-600 text-white rounded-t-lg">
26:         <CardTitle className="text-2xl">? Report Summaries</CardTitle>
27:         <CardDescription className="text-violet-100">Edit the summary sections for experts</CardDescription>
28:       </CardHeader>
29:       <CardContent className="space-y-8 p-8">
30:         { /* Action Buttons */ }
31:         <div className="flex justify-end gap-2 mb-6">
32:           <Button onClick={onReset} variant="outline" size="sm">
33:             <RotateCcw className="h-4 w-4 mr-2" />
34:             Reset
35:           </Button>
36:           <Button onClick={onSave} size="sm">
37:             <Save className="h-4 w-4 mr-2" />
38:             Save Changes
39:           </Button>
40:         </div>
41:
42:         <div className="grid md:grid-cols-2 gap-8">
43:           <div className="space-y-3">
44:             <Label htmlFor="nutrigenomicsSummary" className="text-lg font-semibold text-gray-800">
45:               ? Nutrigenomics Summary
46:             </Label>
47:             <p className="text-sm text-gray-600">For the nutrigenomics expert</p>
48:             <Textarea
49:               id="nutrigenomicsSummary"
50:               value={summaries.nutrigenomicsSummary}
51:               onChange={(e) => updateSummaries("nutrigenomicsSummary", e.target.value)}
52:               rows={8}
53:               className="border-2 focus:border-violet-500"
54:               placeholder="Based on the overall nutrigenomics analysis, provide expert summary for personal
55:             />
56:           </div>
57:           <div className="space-y-3">
58:             <Label htmlFor="exerciseGenomicsSummary" className="text-lg font-semibold text-gray-800">
59:               ??? Exercise Genomics Summary
60:             </Label>
61:             <p className="text-sm text-gray-600">For the fitness genomics expert</p>
62:             <Textarea
63:               id="exerciseGenomicsSummary"
64:               value={summaries.exerciseGenomicsSummary}
65:               onChange={(e) => updateSummaries("exerciseGenomicsSummary", e.target.value)}
66:               rows={8}
67:               className="border-2 focus:border-violet-500"
68:               placeholder="Based on the overall genomics analysis, provide expert summary for personalized
69:             />
70:           </div>
71:         </div>
72:
73:         <div className="bg-blue-50 border-2 border-blue-200 rounded-lg p-6">
74:           <h4 className="font-semibold text-blue-800 mb-2">? Expert Summary Guidelines:</h4>
75:           <ul className="list-disc list-inside space-y-1">
76:             <li>? Provide actionable insights based on genetic analysis</li>

```

```

77:         <li>? Include specific recommendations for healthcare professionals</li>
78:         <li>? Reference key genetic markers and their implications</li>
79:         <li>? Suggest monitoring parameters and intervention strategies</li>
80:         <li>? Keep language professional yet accessible</li>
81:     </ul>
82: </div>
83: </CardContent>
84: </Card>
85: )
86: }

```

■ File: components\comprehensive-report-viewer.tsx

```

=====
1: "use client";
2: import type {
3:   ComprehensiveReportData,
4:   AllergyData,
5: } from "@/types/report-types";
6: import React from "react";
7: import { Card, CardContent, CardHeader, CardTitle } from "@/components/ui/card";
8: import { Badge } from "@/components/ui/badge";
9: import { Separator } from "@/components/ui/separator";
10:
11: interface ComprehensiveReportViewerProps {
12:   reportData: ComprehensiveReportData;
13: }
14:
15: const SectionTitle = ({ title, icon }: { title: string; icon: string }) => (
16:   <div className="w-full mb-8 mt-12 first:mt-0">
17:     <h2 className="text-2xl sm:text-3xl font-bold text-gray-800 mb-6 flex flex-col sm:flex-row items-start">
18:       <span className="text-3xl sm:text-4xl">{icon}</span>
19:       <span className="break-words">{title}</span>
20:     </h2>
21:   </div>
22: );
23:
24: const SubSectionTitle = ({ title, icon }: { title: string; icon?: string }) => (
25:   <div className="w-full mb-6 mt-8">
26:     <h3 className="text-xl sm:text-2xl font-semibold text-gray-700 mb-4 flex flex-col sm:flex-row items-start">
27:       {icon && <span className="text-xl sm:text-2xl">{icon}</span>}
28:       <span className="break-words">{title}</span>
29:     </h3>
30:   </div>
31: );
32:
33: const DataCard = ({
34:   title,
35:   children,
36:   className = "",
37: }: {
38:   title: string;
39:   children: React.ReactNode;
40:   className?: string;
41: }) => (
42:   <Card
43:     className={`border-2 border-gray-200 bg-gray-50/50 shadow-sm h-fit ${className}`}
44:   >
45:     <CardHeader className="pb-3">
46:       <CardTitle className="text-base sm:text-lg font-semibold text-gray-800 break-words">
47:         {title}
48:       </CardTitle>
49:     </CardHeader>
50:     <CardContent className="text-sm text-gray-700 space-y-2">
51:       {children}
52:     </CardContent>
53:   </Card>
54: );
55:
56: export default function ComprehensiveReportViewer({
57:   reportData,
58: }: ComprehensiveReportViewerProps) {

```

```

59:   const {
60:     patientInfo,
61:     content,
62:     settings,
63:     dynamicDietFieldDefinitions,
64:     patientDietAnalysisResults,
65:     nutritionData,
66:     sportsAndFitness,
67:     lifestyleConditions,
68:     metabolicCore,
69:     digestiveHealth,
70:     genesAndAddiction,
71:     sleepAndRest,
72:     allergiesAndSensitivity,
73:     geneTestResults,
74:     preventiveHealth,
75:     familyGeneticImpact,
76:     summaries,
77:   } = reportData;
78:
79:   const getImpactColor = (impact: string) => {
80:     if (
81:       impact.toLowerCase().includes("high") ||
82:       impact.toLowerCase().includes("increased")
83:     ) {
84:       return "bg-red-100 text-red-800 border-red-300";
85:     }
86:     if (
87:       impact.toLowerCase().includes("low") ||
88:       impact.toLowerCase().includes("reduced")
89:     ) {
90:       return "bg-green-100 text-green-800 border-green-300";
91:     }
92:     if (
93:       impact.toLowerCase().includes("normal") ||
94:       impact.toLowerCase().includes("average") ||
95:       impact.toLowerCase().includes("balanced")
96:     ) {
97:       return "bg-blue-100 text-blue-800 border-blue-300";
98:     }
99:     return "bg-gray-100 text-gray-800 border-gray-300";
100:   };
101:
102:   const getStatusColor = (status: "strength" | "improvement") => {
103:     return status === "strength"
104:       ? "bg-green-100 text-green-800 border-green-300"
105:       : "bg-red-100 text-red-800 border-red-300";
106:   };
107:
108:   // Helper to group dynamic diet fields by category
109:   const groupedDietFields = patientDietAnalysisResults.reduce((acc, result) => {
110:     const fieldDef = dynamicDietFieldDefinitions.find(
111:       (def) => def.id === result.fieldId
112:     );
113:     if (fieldDef) {
114:       if (!acc[fieldDef.category]) {
115:         acc[fieldDef.category] = [];
116:       }
117:       acc[fieldDef.category].push({ ...result, label: fieldDef.label });
118:     }
119:     return acc;
120:   }, {} as Record<string, (typeof patientDietAnalysisResults)[0] & { label: string }[]>);
121:
122:   return (
123:     <div className="w-full max-w-6xl mx-auto py-6 sm:py-10 px-4 sm:px-6 bg-white shadow-lg min-h-screen">
124:       </* Report Header */>
125:       <header
126:         className="text-center mb-8 sm:mb-12 py-6 sm:py-8 rounded-lg px-4"
127:         style={{ backgroundColor: settings.headerColor, color: "#fff" }}
128:       >
129:         <h1
130:           className="text-3xl sm:text-4xl lg:text-5xl font-extrabold mb-2 break-words"
131:           style={{ fontFamily: settings.fonts.primary }}

```

```

132:         >
133:         {settings.title}
134:     </h1>
135:     <p
136:         className="text-lg sm:text-xl lg:text-2xl font-light mb-4"
137:         style={{ fontFamily: settings.fonts.secondary }}
138:     >
139:         {settings.subtitle}
140:     </p>
141:     <div className="space-y-2 text-sm sm:text-base lg:text-lg">
142:         <p style={{ fontFamily: settings.fonts.secondary }}>
143:             Patient:{" "}
144:             <span className="font-semibold break-words">
145:                 {patientInfo.name}
146:             </span>
147:         </p>
148:         <p style={{ fontFamily: settings.fonts.secondary }}>
149:             Sample Code:{" "}
150:             <span className="font-mono break-all">
151:                 {patientInfo.sampleCode}
152:             </span>
153:         </p>
154:         <p
155:             className="text-xs sm:text-sm lg:text-base"
156:             style={{ fontFamily: settings.fonts.secondary }}
157:         >
158:             Report Date: {patientInfo.reportDate} | Generated by:{" "}
159:             {settings.companyName}
160:         </p>
161:     </div>
162: </header>
163:
164: {/* Patient Information */}
165: <SectionTitle title="Patient Information" icon="?" />
166: <div className="grid grid-cols-1 sm:grid-cols-2 gap-4 sm:gap-6 mb-8">
167:     <DataCard title="Name">
168:         <p className="break-words">{patientInfo.name}</p>
169:     </DataCard>
170:     <DataCard title="Gender">
171:         <p>{patientInfo.gender}</p>
172:     </DataCard>
173:     <DataCard title="Birth Date">
174:         <p>{patientInfo.birthDate}</p>
175:     </DataCard>
176:     <DataCard title="Sample Code">
177:         <p className="font-mono break-all">{patientInfo.sampleCode}</p>
178:     </DataCard>
179:     <DataCard title="Sample Collection Date">
180:         <p>{patientInfo.sampleDate}</p>
181:     </DataCard>
182:     <DataCard title="Report Generation Date">
183:         <p>{patientInfo.reportDate}</p>
184:     </DataCard>
185: </div>
186:
187: {/* Authentication Section */}
188: <div className="mt-8 mb-8">
189:     <Separator className="mb-6" />
190:     <h3 className="text-center font-bold mb-6 text-gray-600 text-lg">
191:         Report Authentication & Analytics
192:     </h3>
193:
194:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-6 mb-6">
195:         <div className="text-center space-y-4">
196:             <p className="text-sm font-semibold text-gray-700">
197:                 Genomic Data Analytics - Checked & Verified By
198:             </p>
199:             <div className="flex justify-center">
200:                 {patientInfo.signature1 ? (
201:                     <img
202:                         src={patientInfo.signature1 || "/placeholder.svg"}
203:                         alt="Primary Signature"
204:                         className="max-h-24 sm:max-h-32 w-auto object-contain"

```

```

205:         />
206:     ) : (
207:         <p className="italic text-gray-500">No signature available</p>
208:     )}
209: </div>
210:     <p className="text-sm break-words">{patientInfo.checkedBy}</p>
211: </div>
212:
213: <div className="text-center space-y-4">
214:     <p className="text-sm font-semibold text-gray-700">
215:         Scientific Content - Checked & Verified By
216:     </p>
217:     <div className="flex justify-center">
218:         {patientInfo.signature2 ? (
219:             <img
220:                 src={patientInfo.signature2 || "/placeholder.svg"}
221:                 alt="Secondary Signature"
222:                 className="max-h-24 sm:max-h-32 w-auto object-contain"
223:             />
224:         ) : (
225:             <p className="italic text-gray-500">No signature available</p>
226:         )}
227:     </div>
228:     <p className="text-sm break-words">
229:         {patientInfo.scientificContent}
230:     </p>
231: </div>
232: </div>
233:
234: <DataCard title="Disclaimer" className="mt-6">
235:     <p className="text-justify whitespace-pre-wrap break-words text-xs sm:text-sm">
236:         {patientInfo.disclaimer}
237:     </p>
238: </DataCard>
239: </div>
240:
241: <Separator className="my-8 sm:my-12" />
242:
243: { /* Preface Section */ }
244: <div className="text-center mb-6">
245:     <h2 className="text-2xl sm:text-3xl font-bold mb-3 bg-blue-600 text-white py-3 px-4 rounded">
246:         PREFACE
247:     </h2>
248: </div>
249:
250: <div className="space-y-6 sm:space-y-8 mb-8">
251:     <DataCard title="Welcome Letter Introduction">
252:         <p className="text-justify whitespace-pre-line text-sm sm:text-base">
253:             {content.introduction}
254:         </p>
255:     </DataCard>
256:
257:     <div className="text-center mb-6">
258:         <h2 className="text-2xl sm:text-3xl font-bold mb-3 bg-blue-600 text-white py-3 px-4 rounded">
259:             WELCOME TO THE WORLD OF GENOMICS
260:         </h2>
261:     </div>
262:
263:     { /* Genomics Explanation */ }
264:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-6 mb-8">
265:         <DataCard title="What is Genomics?">
266:             <p className="text-justify whitespace-pre-line text-sm sm:text-base">
267:                 {content.genomicsExplanation}
268:             </p>
269:         </DataCard>
270:         <div className="flex justify-center items-center">
271:             
276:         </div>
277:     </div>

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278:
279:     { /* Genes & Health Impact */ }
280:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-6 mb-8">
281:         <DataCard title="Genes and Health Impact">
282:             <p className="text-justify whitespace-pre-line text-sm sm:text-base">
283:                 {content.genesHealthImpact}
284:             </p>
285:         </DataCard>
286:         <div className="flex justify-center items-center">
287:             
292:         </div>
293:     </div>
294:
295:     <Separator className="my-8 sm:my-12" />
296:
297:     <div className="text-center mb-6">
298:         <h2 className="text-2xl sm:text-3xl font-bold mb-3 bg-blue-600 text-white py-3 px-4 rounded">
299:             WHAT IS NUTRIGENOMICS
300:         </h2>
301:     </div>
302:
303:     { /* Fundamentals and PRS */ }
304:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-6 mb-8">
305:         <DataCard title="Fundamentals and PRS">
306:             <p className="text-justify whitespace-pre-line text-sm sm:text-base">
307:                 {content.fundamentalsPRS}
308:             </p>
309:         </DataCard>
310:         <div className="flex justify-center items-center">
311:             
316:         </div>
317:     </div>
318:
319:     { /* Utility for Doctors */ }
320:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-6 mb-8">
321:         <DataCard title="Utility for Doctors and Dietitians">
322:             <p className="text-justify whitespace-pre-line text-sm sm:text-base">
323:                 {content.utilityDoctors}
324:             </p>
325:         </DataCard>
326:         <div className="flex justify-center items-center">
327:             
332:         </div>
333:     </div>
334:
335:     <Separator className="my-8 sm:my-12" />
336:
337:     <div className="text-center mb-6">
338:         <h2 className="text-2xl sm:text-3xl font-bold mb-3 bg-blue-600 text-white py-3 px-4 rounded">
339:             ABOUT MICROARRAY
340:         </h2>
341:     </div>
342:
343:     { /* Microarray Explanation */ }
344:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-6 mb-8">
345:         <DataCard title="Microarray Explanation">
346:             <p className="text-justify whitespace-pre-line text-sm sm:text-base">
347:                 {content.microarrayExplanation}
348:             </p>
349:         </DataCard>
350:         <div className="flex justify-center items-center">

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351:         
356:     </div>
357: </div>
358:
359: { /* Your Microarray Data */ }
360: <div className="grid grid-cols-1 lg:grid-cols-2 gap-6 mb-8">
361:     <DataCard title="Your Microarray Data">
362:         <p className="text-justify whitespace-pre-line text-sm sm:text-base">
363:             {content.microarrayData}
364:         </p>
365:     </DataCard>
366:     <div className="flex justify-center items-center">
367:         
372:     </div>
373: </div>
374: </div>
375:
376: <Separator className="my-8 sm:my-12" />
377:
378: { /* Categories Section */ }
379: {reportData?.categories?.map((category) => {
380:     const columns: string[][] = [[], [], []];
381:     category.parameters.forEach((param, index) => {
382:         columns[index % 3].push(param);
383:     });
384:
385:     return (
386:         <div key={category.id} className="mb-8 border-b border-gray-300 pb-6">
387:             <div className="flex flex-col lg:flex-row gap-6">
388:                 { /* Title and Image Section */ }
389:                 <div className="lg:w-1/4 w-full">
390:                     <div className="flex flex-col sm:flex-row lg:flex-col items-center gap-4 mb-4 lg:mb-0">
391:                         <h2 className="text-lg font-bold text-gray-800 uppercase text-center lg:text-left break-w">
392:                             {category.category}
393:                         </h2>
394:                         {category.imageUrl && (
395:                             <img
396:                                 src={category.imageUrl || "/placeholder.svg"}
397:                                 alt={category.category}
398:                                 className="w-16 h-16 object-cover rounded-full border flex-shrink-0"
399:                             />
400:                         )}
401:                     </div>
402:                 </div>
403:
404:                 { /* Parameters Section */ }
405:                 <div className="lg:w-3/4 w-full">
406:                     <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-3 gap-4">
407:                         {columns.map((col, colIndex) => (
408:                             <ul key={colIndex} className="list-none space-y-2">
409:                                 {col.map((param, idx) => (
410:                                     <li
411:                                         key={idx}
412:                                         className="text-gray-800 text-sm break-words"
413:                                     >
414:                                         {param}
415:                                     </li>
416:                                 ))}
417:                             </ul>
418:                         ))}
419:                     </div>
420:                 </div>
421:             </div>
422:         </div>
423:     );

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424:     }}}
425:
426:     <Separator className="my-8 sm:my-12" />
427:
428:     { /* Dynamic Diet Analysis */ }
429:     <SectionTitle title="Diet Analysis" icon="?" />
430:     { Object.keys(groupedDietFields).length === 0 && (
431:       <p className="text-center text-gray-500 italic mb-8">
432:         No diet analysis results available.
433:       </p>
434:     ) }
435:     { Object.entries(groupedDietFields).map(([category, fields]) => (
436:       <React.Fragment key={category}>
437:         <SubSectionTitle title={category} icon="??" />
438:         <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
439:           { fields.map((data, index) => (
440:             <DataCard key={index} title={data.label}>
441:               <div className="space-y-1">
442:                 <p>
443:                   <strong>Score:</strong> {data.score}/10
444:                 </p>
445:                 <p>
446:                   <strong>Level:</strong> {data.level}
447:                 </p>
448:                 <p>
449:                   <strong>Recommendation:</strong> {data.recommendation}
450:                 </p>
451:               </div>
452:             </DataCard>
453:           ) ) }
454:         </div>
455:       </React.Fragment>
456:     ) ) }
457:
458:     <Separator className="my-8 sm:my-12" />
459:
460:     { /* Nutrition Data */ }
461:     <SectionTitle title="Nutrition Analysis" icon="?" />
462:
463:     <SubSectionTitle title="Vitamins" icon="?" />
464:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
465:       { Object.entries(nutritionData.vitamins).map(([key, data]) => (
466:         <DataCard
467:           key={key}
468:           title={key
469:             .replace(/[A-Z])/g, " $1")
470:             .replace(/^./, (str) => str.toUpperCase()) }
471:         >
472:           <div className="space-y-1">
473:             <p>
474:               <strong>Score:</strong> {data.score}/10
475:             </p>
476:             <p>
477:               <strong>Health Impact:</strong> {data.healthImpact}
478:             </p>
479:             <p>
480:               <strong>Intake Level:</strong> {data.intakeLevel}
481:             </p>
482:             <p>
483:               <strong>Source:</strong> {data.source}
484:             </p>
485:           </div>
486:         </DataCard>
487:       ) ) }
488:     </div>
489:
490:     <SubSectionTitle title="Fatty Acids" icon="?" />
491:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
492:       { Object.entries(nutritionData.fattyAcids).map(([key, data]) => (
493:         <DataCard
494:           key={key}
495:           title={key
496:             .replace(/[A-Z])/g, " $1")

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497:         .replace(/^.\/, (str) => str.toUpperCase()))}
498:     >
499:     <div className="space-y-1">
500:         <p>
501:             <strong>Score:</strong> {data.score}/10
502:         </p>
503:         <p>
504:             <strong>Health Impact:</strong> {data.healthImpact}
505:         </p>
506:         <p>
507:             <strong>Intake Level:</strong> {data.intakeLevel}
508:         </p>
509:         <p>
510:             <strong>Source:</strong> {data.source}
511:         </p>
512:     </div>
513: </DataCard>
514: )}}
515: </div>
516:
517: <SubSectionTitle title="Essential Elements" icon="?" />
518: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
519:     {Object.entries(nutritionData.elements).map(([key, data]) => (
520:         <DataCard
521:             key={key}
522:             title={key
523:                 .replace(/([A-Z])/g, " $1")
524:                 .replace(/^.\/, (str) => str.toUpperCase())}
525:         >
526:             <div className="space-y-1">
527:                 <p>
528:                     <strong>Score:</strong> {data.score}/10
529:                 </p>
530:                 <p>
531:                     <strong>Health Impact:</strong> {data.healthImpact}
532:                 </p>
533:                 <p>
534:                     <strong>Intake Level:</strong> {data.intakeLevel}
535:                 </p>
536:                 <p>
537:                     <strong>Source:</strong> {data.source}
538:                 </p>
539:             </div>
540:         </DataCard>
541:     )}}
542: </div>
543:
544: <SubSectionTitle title="Complex Nutrients" icon="?" />
545: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
546:     {Object.entries(nutritionData.complexNutrients).map(([key, data]) => (
547:         <DataCard
548:             key={key}
549:             title={key
550:                 .replace(/([A-Z])/g, " $1")
551:                 .replace(/^.\/, (str) => str.toUpperCase())}
552:         >
553:             <div className="space-y-1">
554:                 <p>
555:                     <strong>Score:</strong> {data.score}/10
556:                 </p>
557:                 <p>
558:                     <strong>Health Impact:</strong> {data.healthImpact}
559:                 </p>
560:                 <p>
561:                     <strong>Intake Level:</strong> {data.intakeLevel}
562:                 </p>
563:                 <p>
564:                     <strong>Source:</strong> {data.source}
565:                 </p>
566:             </div>
567:         </DataCard>
568:     )}}
569: </div>

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570:
571:     <Separator className="my-8 sm:my-12" />
572:
573:     { /* Sports & Fitness */ }
574:     <SectionTitle title="Sports & Fitness" icon="????" />
575:
576:     <SubSectionTitle title="Exercise Type Suitability" icon="????" />
577:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
578:       {Object.entries(sportsAndFitness.exerciseType).map(([key, data]) => (
579:         <DataCard
580:           key={key}
581:           title={key
582:             .replace(/[A-Z])/g, " $1")
583:             .replace(/^.\/, (str) => str.toUpperCase())}
584:         >
585:           <div className="space-y-1">
586:             <p>
587:               <strong>Level:</strong> {data.level}
588:             </p>
589:             <p>
590:               <strong>Description:</strong> {data.description}
591:             </p>
592:           </div>
593:         </DataCard>
594:       )})
595:     </div>
596:
597:     <SubSectionTitle title="Performance Factors" icon="?" />
598:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
599:       {Object.entries(sportsAndFitness.performance).map(([key, data]) => (
600:         <DataCard
601:           key={key}
602:           title={key
603:             .replace(/[A-Z])/g, " $1")
604:             .replace(/^.\/, (str) => str.toUpperCase())}
605:         >
606:           <div className="space-y-1">
607:             <p>
608:               <strong>Level:</strong> {data.level}
609:             </p>
610:             <p>
611:               <strong>Description:</strong> {data.description}
612:             </p>
613:           </div>
614:         </DataCard>
615:       )})
616:     </div>
617:
618:     <Separator className="my-8 sm:my-12" />
619:
620:     { /* Lifestyle Conditions */ }
621:     <SectionTitle title="Lifestyle Conditions" icon="?" />
622:
623:     <SubSectionTitle title="Heart & Vascular Health" icon="??" />
624:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
625:       {Object.entries(lifestyleConditions.heartVascularHealth).map(
626:         ([key, data]) => (
627:         <DataCard
628:           key={key}
629:           title={key
630:             .replace(/[A-Z])/g, " $1")
631:             .replace(/^.\/, (str) => str.toUpperCase())}
632:         >
633:           <p>
634:             <strong>Status:</strong>{ " "}
635:             <Badge className={getStatusColor(data.status)}>
636:               {data.status}
637:             </Badge>
638:           </p>
639:         </DataCard>
640:       )
641:     })
642:   </div>

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643:
644: <SubSectionTitle title="Diabetes (Diabetes & Obesity)" icon="?" />
645: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
646:   {Object.entries(lifestyleConditions.diabetes).map(([key, data]) => (
647:     <DataCard
648:       key={key}
649:       title={key
650:         .replace(/[A-Z]/g, " $1")
651:         .replace(/^.\/, (str) => str.toUpperCase())}
652:     >
653:       <p>
654:         <strong>Status:</strong>{ " "}
655:         <Badge className={getStatusColor(data.status)}>
656:           {data.status}
657:         </Badge>
658:       </p>
659:     </DataCard>
660:   )]}
661: </div>
662:
663: <SubSectionTitle title="Liver Health" icon="?" />
664: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
665:   {Object.entries(lifestyleConditions.liverHealth).map(([key, data]) => (
666:     <DataCard
667:       key={key}
668:       title={key
669:         .replace(/[A-Z]/g, " $1")
670:         .replace(/^.\/, (str) => str.toUpperCase())}
671:     >
672:       <p>
673:         <strong>Status:</strong>{ " "}
674:         <Badge className={getStatusColor(data.status)}>
675:           {data.status}
676:         </Badge>
677:       </p>
678:     </DataCard>
679:   )]}
680: </div>
681:
682: <SubSectionTitle title="Bone Health" icon="?" />
683: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
684:   {Object.entries(lifestyleConditions.boneHealth).map(([key, data]) => (
685:     <DataCard
686:       key={key}
687:       title={key
688:         .replace(/[A-Z]/g, " $1")
689:         .replace(/^.\/, (str) => str.toUpperCase())}
690:     >
691:       <p>
692:         <strong>Status:</strong>{ " "}
693:         <Badge className={getStatusColor(data.status)}>
694:           {data.status}
695:         </Badge>
696:       </p>
697:     </DataCard>
698:   )]}
699: </div>
700:
701: <SubSectionTitle title="Gut Health" icon="?" />
702: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
703:   {Object.entries(lifestyleConditions.gutHealth).map(([key, data]) => (
704:     <DataCard
705:       key={key}
706:       title={key
707:         .replace(/[A-Z]/g, " $1")
708:         .replace(/^.\/, (str) => str.toUpperCase())}
709:     >
710:       <p>
711:         <strong>Status:</strong>{ " "}
712:         <Badge className={getStatusColor(data.status)}>
713:           {data.status}
714:         </Badge>
715:       </p>

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716:         </DataCard>
717:     )}}
718: </div>
719:
720: <SubSectionTitle title="Hormone System" icon="?" />
721: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
722:     {Object.entries(lifestyleConditions.hormoneSystem).map(
723:         ([key, data]) => (
724:             <DataCard
725:                 key={key}
726:                 title={key
727:                     .replace(/[A-Z])/g, " $1")
728:                     .replace(/^../, (str) => str.toUpperCase())}
729:             >
730:                 <p>
731:                     <strong>Status:</strong>{" "}
732:                     <Badge className={getStatusColor(data.status)}>
733:                         {data.status}
734:                     </Badge>
735:                 </p>
736:             </DataCard>
737:         )
738:     )}
739: </div>
740:
741: <Separator className="my-8 sm:my-12" />
742:
743: {/* Metabolic Core */}
744: <SectionTitle title="Metabolic Core" icon="?" />
745: <div className="space-y-6 mb-8">
746:     {Object.entries(metabolicCore).map(([key, data]) => (
747:         <Card
748:             key={key}
749:             className="border-2 border-purple-200 bg-purple-50/50 shadow-sm"
750:         >
751:             <CardHeader className="pb-3">
752:                 <CardTitle className="text-base sm:text-lg font-semibold text-purple-800 flex flex-col sm:flex-row" >
753:                     <span className="break-words">
754:                         {key
755:                             .replace(/[A-Z])/g, " $1")
756:                             .replace(/^../, (str) => str.toUpperCase())}
757:                     </span>
758:                     <Badge className={getImpactColor(data.impact)}>
759:                         {data.impact}
760:                     </Badge>
761:                 </CardTitle>
762:             </CardHeader>
763:             <CardContent className="text-sm text-gray-700 space-y-2">
764:                 <p>
765:                     <strong>Genes:</strong>{" "}
766:                     <span className="break-words">{data.genes.join(", ")}</span>
767:                 </p>
768:                 <p>
769:                     <strong>Your Genotype:</strong>{" "}
770:                     <span className="font-mono break-all">{data.genotype}</span>
771:                 </p>
772:                 <p>
773:                     <strong>Advice:</strong>{" "}
774:                     <span className="break-words">{data.advice}</span>
775:                 </p>
776:             </CardContent>
777:         </Card>
778:     )}}
779: </div>
780:
781: <Separator className="my-8 sm:my-12" />
782:
783: {/* Digestive Health */}
784: <SectionTitle title="Digestive Health" icon="?" />
785: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
786:     {Object.entries(digestiveHealth).map(([key, data]) => (
787:         <DataCard
788:             key={key}

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789:         title={key
790:             .replace(/\([A-Z]\)/g, " $1")
791:             .replace(/^.\/, (str) => str.toUpperCase())}
792:     >
793:     <div className="space-y-1">
794:         <p>
795:             <strong>Level:</strong> {data.level}
796:         </p>
797:         <p>
798:             <strong>Description:</strong> {data.description}
799:         </p>
800:     </div>
801: </DataCard>
802: )}}
803: </div>
804:
805: <Separator className="my-8 sm:my-12" />
806:
807: {/* Genes & Addiction */}
808: <SectionTitle title="Genes & Addiction" icon="?" />
809: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
810:     {Object.entries(genesAndAddiction).map(([key, data]) => (
811:         <DataCard
812:             key={key}
813:             title={key
814:                 .replace(/\([A-Z]\)/g, " $1")
815:                 .replace(/^.\/, (str) => str.toUpperCase())}
816:         >
817:             <div className="space-y-1">
818:                 <p>
819:                     <strong>Tendency:</strong> {data.tendency}
820:                 </p>
821:                 <p>
822:                     <strong>Description:</strong> {data.description}
823:                 </p>
824:             </div>
825:         </DataCard>
826:     )}}
827: </div>
828:
829: <Separator className="my-8 sm:my-12" />
830:
831: {/* Sleep & Rest */}
832: <SectionTitle title="Sleep & Rest" icon="?" />
833: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
834:     {Object.entries(sleepAndRest).map(([key, data]) => (
835:         <DataCard
836:             key={key}
837:             title={key
838:                 .replace(/\([A-Z]\)/g, " $1")
839:                 .replace(/^.\/, (str) => str.toUpperCase())}
840:         >
841:             <div className="space-y-1">
842:                 <p>
843:                     <strong>Impact:</strong> {data.impact}
844:                 </p>
845:                 <p>
846:                     <strong>Intervention:</strong> {data.intervention}
847:                 </p>
848:             </div>
849:         </DataCard>
850:     )}}
851: </div>
852:
853: <Separator className="my-8 sm:my-12" />
854:
855: {/* Allergies & Sensitivity */}
856: <SectionTitle title="Allergies & Sensitivity" icon="?" />
857: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
858:     {Object.entries(allergiesAndSensitivity)
859:         .filter(([key]) => key !== "generalAdvice")
860:         .map(([key, data]) => (
861:         <DataCard

```

```

862:         key={key}
863:         title={key
864:             .replace(/[A-Z])/g, " $1")
865:             .replace(/^../, (str) => str.toUpperCase())}
866:     >
867:         <p>
868:             <strong>Tendency:</strong> {(data as AllergyData).tendency}
869:         </p>
870:     </DataCard>
871:   )}}
872: </div>
873:
874: <DataCard title="General Advice" className="mt-6">
875:   <p className="text-justify break-words">
876:     {allergiesAndSensitivity.generalAdvice}
877:   </p>
878: </DataCard>
879:
880: <Separator className="my-8 sm:my-12" />
881:
882: {/* Preventive Health */}
883: <SectionTitle title="Preventive Health" icon="?" />
884:
885: <SubSectionTitle title="Diagnostic Tests" icon="?" />
886: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
887:   <DataCard title="Half-Yearly Tests">
888:     <ul className="list-disc list-inside space-y-1">
889:       {preventiveHealth.diagnosticTests.halfYearly.map((test, index) => (
890:         <li key={index} className="break-words">
891:           {test}
892:         </li>
893:       ))}
894:     </ul>
895:   </DataCard>
896:   <DataCard title="Yearly Tests">
897:     <ul className="list-disc list-inside space-y-1">
898:       {preventiveHealth.diagnosticTests.yearly.map((test, index) => (
899:         <li key={index} className="break-words">
900:           {test}
901:         </li>
902:       ))}
903:     </ul>
904:   </DataCard>
905: </div>
906:
907: <SubSectionTitle title="Nutritional Supplements" icon="?" />
908: <DataCard title="Recommended Supplements">
909:   <ul className="list-disc list-inside space-y-1">
910:     {preventiveHealth.nutritionalSupplements.map((supplement, index) => (
911:       <li key={index} className="break-words">
912:         {supplement.supplement}{" "}
913:         {supplement.needed ? "(Needed)" : "(Optional)"}
914:       </li>
915:     ))}
916:   </ul>
917: </DataCard>
918:
919: <Separator className="my-8 sm:my-12" />
920:
921: {/* Family Genetic Impact */}
922: <SectionTitle title="Family Genetic Impact" icon="???????" />
923: <div className="space-y-6 mb-8">
924:   {familyGeneticImpact.length === 0 && (
925:     <p className="text-center text-gray-500 italic">
926:       No family genetic impacts recorded.
927:     </p>
928:   )}
929:   {familyGeneticImpact.map((impact, index) => (
930:     <Card
931:       key={index}
932:       className="border-2 border-blue-200 bg-blue-50/50 shadow-sm"
933:     >
934:       <CardHeader className="pb-3">

```

```

935:         <CardTitle className="text-base sm:text-lg font-semibold text-blue-800">
936:             Genetic Impact #{index + 1}
937:         </CardTitle>
938:     </CardHeader>
939:     <CardContent className="text-sm text-gray-700 space-y-2">
940:         <p>
941:             <strong>Gene:</strong>{ " "}
942:             <span className="break-words">{impact.gene}</span>
943:         </p>
944:         <p>
945:             <strong>Normal/Common Alleles:</strong>{ " "}
946:             <span className="break-words">{impact.normalAlleles}</span>
947:         </p>
948:         <p>
949:             <strong>Your Result:</strong>{ " "}
950:             <span className="font-mono break-all">{impact.yourResult}</span>
951:         </p>
952:         <p>
953:             <strong>Health Impact:</strong>{ " "}
954:             <span className="break-words">{impact.healthImpact}</span>
955:         </p>
956:     </CardContent>
957: </Card>
958: ))}
959: </div>
960:
961: <Separator className="my-8 sm:my-12" />
962:
963: {/* Gene Test Results */}
964: <SectionTitle title="Gene Test Results" icon="?" />
965: <div className="space-y-6 mb-8">
966:     {geneTestResults.length === 0 && (
967:         <p className="text-center text-gray-500 italic">
968:             No gene test results recorded.
969:         </p>
970:     )}
971:     {geneTestResults.map((result, index) => (
972:         <Card
973:             key={index}
974:             className="border-2 border-indigo-200 bg-indigo-50/50 shadow-sm"
975:         >
976:             <CardHeader className="pb-3">
977:                 <CardTitle className="text-base sm:text-lg font-semibold text-indigo-800 break-words">
978:                     Gene: {result.geneName}
979:                 </CardTitle>
980:             </CardHeader>
981:             <CardContent className="text-sm text-gray-700 space-y-2">
982:                 <p>
983:                     <strong>Variation:</strong>{ " "}
984:                     <span className="font-mono break-all">{result.variation}</span>
985:                 </p>
986:                 <p>
987:                     <strong>Result:</strong>{ " "}
988:                     <span className="font-mono break-all">{result.result}</span>
989:                 </p>
990:             </CardContent>
991:         </Card>
992:     ))}
993: </div>
994:
995: <Separator className="my-8 sm:my-12" />
996:
997: {/* Summaries */}
998: <SectionTitle title="Summaries for Experts" icon="?" />
999: <div className="space-y-6 mb-8">
1000:     <DataCard title="Nutrigenomics Summary">
1001:         <p className="text-justify break-words text-sm sm:text-base">
1002:             {summaries.nutrigenomicsSummary}
1003:         </p>
1004:     </DataCard>
1005:     <DataCard title="Exercise Genomics Summary">
1006:         <p className="text-justify break-words text-sm sm:text-base">
1007:             {summaries.exerciseGenomicsSummary}

```

```

1008:         </p>
1009:     </DataCard>
1010: </div>
1011:
1012:     { /* Report Footer */ }
1013:     <footer className="text-center mt-8 sm:mt-12 py-6 text-gray-600 text-xs sm:text-sm border-t border-g
1014:         <div className="space-y-2">
1015:             <p>
1016:                 &copy; {new Date().getFullYear()} {settings.companyName}. All rights
1017:                 reserved.
1018:             </p>
1019:             <p className="break-words">
1020:                 Report Authentication: {patientInfo.reportAuth}
1021:             </p>
1022:         </div>
1023:     </footer>
1024: </div>
1025: );
1026: }

```

■ File: components/report-viewer.tsx

```

=====
1: // "use client";
2:
3: // import { Card, CardContent, CardHeader, CardTitle } from "@components/ui/card";
4: // import { Badge } from "@components/ui/badge";
5: // import { Progress } from "@components/ui/progress";
6: // import type { ComprehensiveReportData } from "@types/report-types";
7:
8: // interface ReportViewerProps {
9: //   data: ComprehensiveReportData;
10: //   mode: "preview" | "pdf";
11: // }
12:
13: // export function ReportViewer({ data, mode }: ReportViewerProps) {
14: //   const getScoreColor = (score: number) => {
15: //     if (score >= data.settings.highThreshold) return data.settings.colors.high;
16: //     if (score >= 4) return data.settings.colors.medium;
17: //     return data.settings.colors.low;
18: //   };
19:
20: //   const getScoreLevel = (score: number) => {
21: //     if (score >= data.settings.highThreshold) return "High";
22: //     if (score >= 4) return "Medium";
23: //     return "Low";
24: //   };
25:
26: //   return (
27: //     <div className={`space-y-8 ${mode === "pdf" ? "print:space-y-4" : ""}`>
28: //       { /* Page 1: Cover Page */ }
29: //       <div className="bg-white p-8 rounded-lg shadow-sm page-break">
30: //         <div
31: //           className="text-center py-16 rounded-lg text-white"
32: //           style={{ backgroundColor: data.settings.headerColor }}
33: //         >
34: //           <h1 className="text-4xl font-bold mb-4">{data.settings.title}</h1>
35: //           <p className="text-xl italic mb-8">{data.settings.quote}</p>
36: //           <div className="bg-white/20 p-6 rounded-lg inline-block">
37: //             <h2 className="text-2xl font-semibold mb-2">
38: //               {data.patientInfo.name}
39: //             </h2>
40: //             <p className="text-lg">
41: //               Sample Code: {data.patientInfo.sampleCode}
42: //             </p>
43: //             <p className="text-lg">
44: //               Report Date: {data.patientInfo.reportDate}
45: //             </p>
46: //             <p className="text-gray-700 leading-relaxed whitespace-pre-line">
47: //               {data.patientInfo.disclaimer}
48: //             </p>
49: //           </div>

```



```

50: //      </div>
51:
52: //      { /* Page 3: Welcome Letter */ }
53: //      <div className="bg-white p-8 rounded-lg shadow-sm page-break">
54: //          <h2
55: //              className="text-2xl font-bold mb-6"
56: //              style={{ color: data.settings.headerColor }}
57: //          >
58: //              ? Welcome to Your Genomics Journey
59: //          </h2>
60: //          <div className="prose max-w-none">
61: //              <p className="text-gray-700 leading-relaxed whitespace-pre-line mb-6">
62: //                  {data.content.introduction}
63: //              </p>
64: //              <div className="bg-blue-50 p-6 rounded-lg">
65: //                  <h3 className="text-lg font-semibold mb-3">What is Genomics?</h3>
66: //                  <p className="text-gray-700 leading-relaxed whitespace-pre-line">
67: //                      {data.content.genomicsExplanation}
68: //                  </p>
69: //              </div>
70: //          </div>
71: //      </div>
72:
73: //      { /* Page 4-8: Diet Analysis */ }
74: //      <div className="bg-white p-8 rounded-lg shadow-sm page-break">
75: //          <h2
76: //              className="text-2xl font-bold mb-6"
77: //              style={{ color: data.settings.headerColor }}
78: //          >
79: //              ?? DIET ANALYSIS
80: //          </h2>
81:
82: //          { /* Macronutrients Section */ }
83: //          <div className="mb-8">
84: //              <h3 className="text-xl font-semibold mb-4">Macronutrients</h3>
85: //              <div className="grid md:grid-cols-3 gap-4">
86: //                  {Object.entries(data.dietAnalysis.macronutrients).map(
87: //                      ([key, item]) => (
88: //                          <Card key={key}>
89: //                              <CardHeader className="pb-3">
90: //                                  <CardTitle className="text-sm">
91: //                                      {key
92: //                                          .replace(/[A-Z])/g, " $1")
93: //                                          .replace(/^./, (str) => str.toUpperCase())}
94: //                                  </CardTitle>
95: //                              </CardHeader>
96: //                              <CardContent>
97: //                                  <div className="flex items-center justify-between mb-2">
98: //                                      <span className="text-2xl font-bold">
99: //                                          {item.score}/10
100: //                                      </span>
101: //                                      <Badge
102: //                                          style={{ backgroundColor: getScoreColor(item.score) }}
103: //                                          className="text-white"
104: //                                      >
105: //                                          {getScoreLevel(item.score)}
106: //                                      </Badge>
107: //                                  </div>
108: //                                  <Progress value={item.score * 10} className="mb-3" />
109: //                                  <p className="text-sm text-gray-600">
110: //                                      {item.recommendation}
111: //                                  </p>
112: //                              </CardContent>
113: //                          </Card>
114: //                      )
115: //                  )}
116: //              </div>
117: //          </div>
118:
119: //          { /* Food Sensitivities Section */ }
120: //          <div className="mb-8">
121: //              <h3 className="text-xl font-semibold mb-4">Food Sensitivities</h3>
122: //              <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-4">

```

```

123: //      {Object.entries(data.dietAnalysis.foodSensitivities).map(
124: //          ([key, item]) => (
125: //              <Card key={key}>
126: //                  <CardHeader className="pb-3">
127: //                      <CardTitle className="text-sm">
128: //                          {key
129: //                              .replace(/[A-Z])/g, " $1")
130: //                              .replace(/^../, (str) => str.toUpperCase())}
131: //                      </CardTitle>
132: //                  </CardHeader>
133: //                  <CardContent>
134: //                      <div className="flex items-center justify-between mb-2">
135: //                          <span className="text-xl font-bold">{item.score}/10</span>
136: //                          <Badge
137: //                              style={{ backgroundColor: getScoreColor(item.score) }}
138: //                              className="text-white"
139: //                          >
140: //                              {item.level || getScoreLevel(item.score)}
141: //                          </Badge>
142: //                      </div>
143: //                      <Progress value={item.score * 10} className="mb-3" />
144: //                      <p className="text-xs text-gray-600">
145: //                          {item.recommendation}
146: //                      </p>
147: //                  </CardContent>
148: //              </Card>
149: //          )
150: //      )}
151: //  </div>
152: // </div>
153: // </div>
154:
155: // { /* Page 9-15: Nutrition Data */ }
156: // <div className="bg-white p-8 rounded-lg shadow-sm page-break">
157: //     <h2
158: //         className="text-2xl font-bold mb-6"
159: //         style={{ color: data.settings.headerColor }}
160: //     >
161: //         ? NUTRITION ANALYSIS
162: //     </h2>
163:
164: //     { /* Vitamins Section */ }
165: //     <div className="mb-8">
166: //         <h3 className="text-xl font-semibold mb-4">Vitamins</h3>
167: //         <div className="grid md:grid-cols-2 lg:grid-cols-4 gap-4">
168: //             {Object.entries(data.nutritionData.vitamins).map(([key, item]) => (
169: //                 <Card key={key}>
170: //                     <CardHeader className="pb-3">
171: //                         <CardTitle className="text-sm">
172: //                             {key
173: //                                 .replace(/[A-Z])/g, " $1")
174: //                                 .replace(/^../, (str) => str.toUpperCase())}
175: //                         </CardTitle>
176: //                     </CardHeader>
177: //                     <CardContent>
178: //                         <div className="flex items-center justify-between mb-2">
179: //                             <span className="text-lg font-bold">{item.score}/10</span>
180: //                             <Badge
181: //                                 style={{ backgroundColor: getScoreColor(item.score) }}
182: //                                 className="text-white text-xs"
183: //                             >
184: //                                 {item.level || getScoreLevel(item.score)}
185: //                             </Badge>
186: //                         </div>
187: //                         <Progress value={item.score * 10} className="mb-2" />
188: //                         <p className="text-xs text-gray-600 mb-2">
189: //                             {item.healthImpact}
190: //                         </p>
191: //                         <p className="text-xs text-blue-600">{item.recommendation}</p>
192: //                     </CardContent>
193: //                 </Card>
194: //             )})
195: //         </div>

```

```

196: //      </div>
197:
198: //      { /* Elements Section */ }
199: //      <div className="mb-8">
200: //          <h3 className="text-xl font-semibold mb-4">Essential Elements</h3>
201: //          <div className="grid md:grid-cols-2 lg:grid-cols-4 gap-4">
202: //              {Object.entries(data.nutritionData.elements).map(([key, item]) => (
203: //                  <Card key={key}>
204: //                      <CardHeader className="pb-3">
205: //                          <CardTitle className="text-sm capitalize">{key}</CardTitle>
206: //                      </CardHeader>
207: //                      <CardContent>
208: //                          <div className="flex items-center justify-between mb-2">
209: //                              <span className="text-lg font-bold">{item.score}/10</span>
210: //                              <Badge
211: //                                  style={{ backgroundColor: getScoreColor(item.score) }}
212: //                                  className="text-white text-xs"
213: //                              >
214: //                                  {item.level || getScoreLevel(item.score)}
215: //                              </Badge>
216: //                          </div>
217: //                          <Progress value={item.score * 10} className="mb-2" />
218: //                          <p className="text-xs text-gray-600 mb-2">
219: //                              {item.healthImpact}
220: //                          </p>
221: //                          <p className="text-xs text-blue-600">{item.recommendation}</p>
222: //                      </CardContent>
223: //                  </Card>
224: //              )})}
225: //          </div>
226: //      </div>
227: //  </div>
228:
229: //  { /* Page 16-22: Sports & Fitness */ }
230: //  <div className="bg-white p-8 rounded-lg shadow-sm page-break">
231: //      <h2
232: //          className="text-2xl font-bold mb-6"
233: //          style={{ color: data.settings.headerColor }}
234: //      >
235: //          ???? SPORTS & FITNESS
236: //      </h2>
237:
238: //      { /* Exercise Type Section */ }
239: //      <div className="mb-8">
240: //          <h3 className="text-xl font-semibold mb-4">
241: //              Exercise Type Suitability
242: //          </h3>
243: //          <div className="grid md:grid-cols-2 gap-4">
244: //              {Object.entries(data.sportsAndFitness.exerciseType).map(
245: //                  ([key, item]) => (
246: //                      <Card key={key}>
247: //                          <CardHeader className="pb-3">
248: //                              <CardTitle className="text-sm">
249: //                                  {key
250: //                                      .replace(/([A-Z])/g, " $1")
251: //                                      .replace(/^./, (str) => str.toUpperCase())}
252: //                              </CardTitle>
253: //                          </CardHeader>
254: //                          <CardContent>
255: //                              <div className="flex items-center justify-between mb-2">
256: //                                  <span className="text-xl font-bold">{item.score}/10</span>
257: //                                  <Badge
258: //                                      style={{ backgroundColor: getScoreColor(item.score) }}
259: //                                      className="text-white"
260: //                                  >
261: //                                      {item.level || getScoreLevel(item.score)}
262: //                                  </Badge>
263: //                              </div>
264: //                              <Progress value={item.score * 10} className="mb-3" />
265: //                              <p className="text-sm text-gray-600">{item.description}</p>
266: //                          </CardContent>
267: //                      </Card>
268: //                  )

```

```

269: //         })
270: //       </div>
271: //     </div>
272:
273: //     { /* Performance Section */ }
274: //     <div className="mb-8">
275: //       <h3 className="text-xl font-semibold mb-4">Performance Factors</h3>
276: //       <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-4">
277: //         {Object.entries(data.sportsAndFitness.performance).map(
278: //           ([key, item]) => (
279: //             <Card key={key}>
280: //               <CardHeader className="pb-3">
281: //                 <CardTitle className="text-sm">
282: //                   {key
283: //                     .replace(/[A-Z])/g, " $1")
284: //                     .replace(/^./, (str) => str.toUpperCase())}
285: //                 </CardTitle>
286: //               </CardHeader>
287: //               <CardContent>
288: //                 <div className="flex items-center justify-between mb-2">
289: //                   <span className="text-lg font-bold">{item.score}/10</span>
290: //                   <Badge
291: //                     style={{ backgroundColor: getScoreColor(item.score) }}
292: //                     className="text-white text-xs"
293: //                   >
294: //                     {item.level || getScoreLevel(item.score)}
295: //                   </Badge>
296: //                 </div>
297: //                 <Progress value={item.score * 10} className="mb-2" />
298: //                 <p className="text-xs text-gray-600">{item.description}</p>
299: //               </CardContent>
300: //             </Card>
301: //           )
302: //         )}
303: //       </div>
304: //     </div>
305:
306: //     { /* Injury Management Section */ }
307: //     <div className="mb-8">
308: //       <h3 className="text-xl font-semibold mb-4">Injury Risk Management</h3>
309: //       <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-4">
310: //         {Object.entries(data.sportsAndFitness.injuryManagement).map(
311: //           ([key, item]) => (
312: //             <Card key={key}>
313: //               <CardHeader className="pb-3">
314: //                 <CardTitle className="text-sm">
315: //                   {key
316: //                     .replace(/[A-Z])/g, " $1")
317: //                     .replace(/^./, (str) => str.toUpperCase())}
318: //                 </CardTitle>
319: //               </CardHeader>
320: //               <CardContent>
321: //                 <div className="flex items-center justify-between mb-2">
322: //                   <span className="text-lg font-bold">{item.score}/10</span>
323: //                   <Badge
324: //                     style={{ backgroundColor: getScoreColor(item.score) }}
325: //                     className="text-white text-xs"
326: //                   >
327: //                     {item.level || getScoreLevel(item.score)}
328: //                   </Badge>
329: //                 </div>
330: //                 <Progress value={item.score * 10} className="mb-2" />
331: //                 <p className="text-xs text-gray-600">{item.description}</p>
332: //               </CardContent>
333: //             </Card>
334: //           )
335: //         )}
336: //       </div>
337: //     </div>
338: //   </div>
339:
340: //   { /* Continue with remaining sections... */ }
341: //   { /* This is a comprehensive start - I'll need to continue with all remaining sections to reach 56 }

```

```

342:
343: //      <style jsx global>{`
344: //      @media print {
345: //          .page-break {
346: //              page-break-after: always;
347: //          }
348: //          .no-print {
349: //              display: none;
350: //          }
351: //      }
352: //      `}</style>
353: //  </div>
354: //  );
355: //  }

```

■ File: components\theme-provider.tsx

```

1: "use client"
2: import { ThemeProvider as NextThemesProvider } from "next-themes"
3: import type { ThemeProviderProps } from "next-themes"
4:
5: export function ThemeProvider({ children, ...props }: ThemeProviderProps) {
6:   return <NextThemesProvider {...props}>{children}</NextThemesProvider>
7: }

```

■ File: components\ui\accordion.tsx

```

1: "use client"
2:
3: import * as React from "react"
4: import * as AccordionPrimitive from "@radix-ui/react-accordion"
5: import { ChevronDown } from "lucide-react"
6:
7: import { cn } from "@/lib/utils"
8:
9: const Accordion = AccordionPrimitive.Root
10:
11: const AccordionItem = React.forwardRef<
12:   React.ElementRef<typeof AccordionPrimitive.Item>,
13:   React.ComponentPropsWithoutRef<typeof AccordionPrimitive.Item>
14: >(({ className, ...props }, ref) => (
15:   <AccordionPrimitive.Item
16:     ref={ref}
17:     className={cn("border-b", className)}
18:     {...props}
19:   />
20: ))
21: AccordionItem.displayName = "AccordionItem"
22:
23: const AccordionTrigger = React.forwardRef<
24:   React.ElementRef<typeof AccordionPrimitive.Trigger>,
25:   React.ComponentPropsWithoutRef<typeof AccordionPrimitive.Trigger>
26: >(({ className, children, ...props }, ref) => (
27:   <AccordionPrimitive.Header className="flex">
28:     <AccordionPrimitive.Trigger
29:       ref={ref}
30:       className={cn(
31:         "flex flex-1 items-center justify-between py-4 font-medium transition-all hover:underline [&[data-s
32:         className
33:       )}
34:       {...props}
35:     >
36:       {children}
37:       <ChevronDown className="h-4 w-4 shrink-0 transition-transform duration-200" />
38:     </AccordionPrimitive.Trigger>
39:   </AccordionPrimitive.Header>
40: ))
41: AccordionTrigger.displayName = AccordionPrimitive.Trigger.displayName
42:

```

```

43: const AccordionContent = React.forwardRef<
44:   React.ElementRef<typeof AccordionPrimitive.Content>,
45:   React.ComponentPropsWithoutRef<typeof AccordionPrimitive.Content>
46: >(({ className, children, ...props }, ref) => (
47:   <AccordionPrimitive.Content
48:     ref={ref}
49:     className="overflow-hidden text-sm transition-all data-[state=closed]:animate-accordion-up data-[state=open]:animate-accordion-down"
50:     {...props}
51:   >
52:     <div className={cn("pb-4 pt-0", className)}>{children}</div>
53:   </AccordionPrimitive.Content>
54: ))
55:
56: AccordionContent.displayName = AccordionPrimitive.Content.displayName
57:
58: export { Accordion, AccordionItem, AccordionTrigger, AccordionContent }

```

■ File: components/ui/alert-dialog.tsx

```

1: "use client"
2:
3: import * as React from "react"
4: import * as AlertDialogPrimitive from "@radix-ui/react-alert-dialog"
5:
6: import { cn } from "@lib/utlils"
7: import { buttonVariants } from "@components/ui/button"
8:
9: const AlertDialog = AlertDialogPrimitive.Root
10:
11: const AlertDialogTrigger = AlertDialogPrimitive.Trigger
12:
13: const AlertDialogPortal = AlertDialogPrimitive.Portal
14:
15: const AlertDialogOverlay = React.forwardRef<
16:   React.ElementRef<typeof AlertDialogPrimitive.Overlay>,
17:   React.ComponentPropsWithoutRef<typeof AlertDialogPrimitive.Overlay>
18: >(({ className, ...props }, ref) => (
19:   <AlertDialogPrimitive.Overlay
20:     className={cn(
21:       "fixed inset-0 z-50 bg-black/80 data-[state=open]:animate-in data-[state=closed]:animate-out data-[state=closed]:fade-out-0 data-[state=open]:fade-in-0",
22:       className
23:     )}
24:     {...props}
25:     ref={ref}
26:   />
27: ))
28: AlertDialogOverlay.displayName = AlertDialogPrimitive.Overlay.displayName
29:
30: const AlertDialogContent = React.forwardRef<
31:   React.ElementRef<typeof AlertDialogPrimitive.Content>,
32:   React.ComponentPropsWithoutRef<typeof AlertDialogPrimitive.Content>
33: >(({ className, ...props }, ref) => (
34:   <AlertDialogPortal>
35:     <AlertDialogOverlay />
36:     <AlertDialogPrimitive.Content
37:       ref={ref}
38:       className={cn(
39:         "fixed left-[50%] top-[50%] z-50 grid w-full max-w-lg translate-x-[-50%] translate-y-[-50%] gap-4 bg-white p-6 shadow-lg",
40:         className
41:       )}
42:       {...props}
43:     />
44:   </AlertDialogPortal>
45: ))
46: AlertDialogContent.displayName = AlertDialogPrimitive.Content.displayName
47:
48: const AlertDialogHeader = ({
49:   className,
50:   ...props
51: }: React.HTMLAttributes<HTMLDivElement>) => (
52:   <div

```

```

53:     className={cn(
54:       "flex flex-col space-y-2 text-center sm:text-left",
55:       className
56:     )}
57:     {...props}
58:   />
59: )
60: AlertDialogHeader.displayName = "AlertDialogHeader"
61:
62: const AlertDialogFooter = ({
63:   className,
64:   ...props
65: }: React.HTMLAttributes<HTMLDivElement>) => (
66:   <div
67:     className={cn(
68:       "flex flex-col-reverse sm:flex-row sm:justify-end sm:space-x-2",
69:       className
70:     )}
71:     {...props}
72:   />
73: )
74: AlertDialogFooter.displayName = "AlertDialogFooter"
75:
76: const AlertDialogTitle = React.forwardRef<
77:   React.ElementRef<typeof AlertDialogPrimitive.Title>,
78:   React.ComponentPropsWithoutRef<typeof AlertDialogPrimitive.Title>
79: >(({ className, ...props }, ref) => (
80:   <AlertDialogPrimitive.Title
81:     ref={ref}
82:     className={cn("text-lg font-semibold", className)}
83:     {...props}
84:   />
85: ))
86: AlertDialogTitle.displayName = AlertDialogPrimitive.Title.displayName
87:
88: const AlertDialogDescription = React.forwardRef<
89:   React.ElementRef<typeof AlertDialogPrimitive.Description>,
90:   React.ComponentPropsWithoutRef<typeof AlertDialogPrimitive.Description>
91: >(({ className, ...props }, ref) => (
92:   <AlertDialogPrimitive.Description
93:     ref={ref}
94:     className={cn("text-sm text-muted-foreground", className)}
95:     {...props}
96:   />
97: ))
98: AlertDialogDescription.displayName =
99:   AlertDialogPrimitive.Description.displayName
100:
101: const AlertDialogAction = React.forwardRef<
102:   React.ElementRef<typeof AlertDialogPrimitive.Action>,
103:   React.ComponentPropsWithoutRef<typeof AlertDialogPrimitive.Action>
104: >(({ className, ...props }, ref) => (
105:   <AlertDialogPrimitive.Action
106:     ref={ref}
107:     className={cn(buttonVariants(), className)}
108:     {...props}
109:   />
110: ))
111: AlertDialogAction.displayName = AlertDialogPrimitive.Action.displayName
112:
113: const AlertDialogCancel = React.forwardRef<
114:   React.ElementRef<typeof AlertDialogPrimitive.Cancel>,
115:   React.ComponentPropsWithoutRef<typeof AlertDialogPrimitive.Cancel>
116: >(({ className, ...props }, ref) => (
117:   <AlertDialogPrimitive.Cancel
118:     ref={ref}
119:     className={cn(
120:       buttonVariants({ variant: "outline" }),
121:       "mt-2 sm:mt-0",
122:       className
123:     )}
124:     {...props}
125:   />

```

```

126: ))
127: AlertDialogCancel.displayName = AlertDialogPrimitive.Cancel.displayName
128:
129: export {
130:   AlertDialog,
131:   AlertDialogPortal,
132:   AlertDialogOverlay,
133:   AlertDialogTrigger,
134:   AlertDialogContent,
135:   AlertDialogHeader,
136:   AlertDialogFooter,
137:   AlertDialogTitle,
138:   AlertDialogDescription,
139:   AlertDialogAction,
140:   AlertDialogCancel,
141: }

```

■ File: components/ui/alert.tsx

```

=====
1: import * as React from "react"
2: import { cva, type VariantProps } from "class-variance-authority"
3:
4: import { cn } from "@lib/Utils"
5:
6: const alertVariants = cva(
7:   "relative w-full rounded-lg border p-4 [&svg~*]:pl-7 [&svg+div]:translate-y-[-3px] [&svg]:absolute [&svg]:left-4 [&svg]:top-4 [&svg]:size-6",
8:   {
9:     variants: {
10:       variant: {
11:         default: "bg-background text-foreground",
12:         destructive:
13:           "border-destructive/50 text-destructive dark:border-destructive [&svg]:text-destructive",
14:       },
15:     },
16:     defaultVariants: {
17:       variant: "default",
18:     },
19:   }
20: )
21:
22: const Alert = React.forwardRef<
23:   HTMLDivElement,
24:   React.HTMLAttributes<HTMLDivElement> & VariantProps<typeof alertVariants>
25: >(({ className, variant, ...props }, ref) => (
26:   <div
27:     ref={ref}
28:     role="alert"
29:     className={cn(alertVariants({ variant }), className)}
30:     {...props}
31:   />
32: ))
33: Alert.displayName = "Alert"
34:
35: const AlertTitle = React.forwardRef<
36:   HTMLParagraphElement,
37:   React.HTMLAttributes<HTMLHeadingElement>
38: >(({ className, ...props }, ref) => (
39:   <h5
40:     ref={ref}
41:     className={cn("mb-1 font-medium leading-none tracking-tight", className)}
42:     {...props}
43:   />
44: ))
45: AlertTitle.displayName = "AlertTitle"
46:
47: const AlertDescription = React.forwardRef<
48:   HTMLParagraphElement,
49:   React.HTMLAttributes<HTMLParagraphElement>
50: >(({ className, ...props }, ref) => (
51:   <div
52:     ref={ref}

```



```

53:     className={cn("text-sm [&_p]:leading-relaxed", className)}
54:     {...props}
55:   />
56: ))
57: AlertDescription.displayName = "AlertDescription"
58:
59: export { Alert, AlertTitle, AlertDescription }

```

■ File: components\ui\aspect-ratio.tsx

```

1: "use client"
2:
3: import * as AspectRatioPrimitive from "@radix-ui/react-aspect-ratio"
4:
5: const AspectRatio = AspectRatioPrimitive.Root
6:
7: export { AspectRatio }

```

■ File: components\ui\avatar.tsx

```

1: "use client"
2:
3: import * as React from "react"
4: import * as AvatarPrimitive from "@radix-ui/react-avatar"
5:
6: import { cn } from "@/lib/utils"
7:
8: const Avatar = React.forwardRef<
9:   React.ElementRef<typeof AvatarPrimitive.Root>,
10:   React.ComponentPropsWithoutRef<typeof AvatarPrimitive.Root>
11: >(({ className, ...props }, ref) => (
12:   <AvatarPrimitive.Root
13:     ref={ref}
14:     className={cn(
15:       "relative flex h-10 w-10 shrink-0 overflow-hidden rounded-full",
16:       className
17:     )}
18:     {...props}
19:   />
20: ))
21: Avatar.displayName = AvatarPrimitive.Root.displayName
22:
23: const AvatarImage = React.forwardRef<
24:   React.ElementRef<typeof AvatarPrimitive.Image>,
25:   React.ComponentPropsWithoutRef<typeof AvatarPrimitive.Image>
26: >(({ className, ...props }, ref) => (
27:   <AvatarPrimitive.Image
28:     ref={ref}
29:     className={cn("aspect-square h-full w-full", className)}
30:     {...props}
31:   />
32: ))
33: AvatarImage.displayName = AvatarPrimitive.Image.displayName
34:
35: const AvatarFallback = React.forwardRef<
36:   React.ElementRef<typeof AvatarPrimitive.Fallback>,
37:   React.ComponentPropsWithoutRef<typeof AvatarPrimitive.Fallback>
38: >(({ className, ...props }, ref) => (
39:   <AvatarPrimitive.Fallback
40:     ref={ref}
41:     className={cn(
42:       "flex h-full w-full items-center justify-center rounded-full bg-muted",
43:       className
44:     )}
45:     {...props}
46:   />
47: ))
48: AvatarFallback.displayName = AvatarPrimitive.Fallback.displayName
49:

```

```
50: export { Avatar, AvatarImage, AvatarFallback }
```

■ File: components\ui\badge.tsx

```
1: import * as React from "react"
2: import { cva, type VariantProps } from "class-variance-authority"
3:
4: import { cn } from "@lib/utils"
5:
6: const badgeVariants = cva(
7:   "inline-flex items-center rounded-full border px-2.5 py-0.5 text-xs font-semibold transition-colors focus
8:   {
9:     variants: {
10:       variant: {
11:         default:
12:           "border-transparent bg-primary text-primary-foreground hover:bg-primary/80",
13:         secondary:
14:           "border-transparent bg-secondary text-secondary-foreground hover:bg-secondary/80",
15:         destructive:
16:           "border-transparent bg-destructive text-destructive-foreground hover:bg-destructive/80",
17:         outline: "text-foreground",
18:       },
19:     },
20:     defaultVariants: {
21:       variant: "default",
22:     },
23:   }
24: )
25:
26: export interface BadgeProps
27:   extends React.HTMLAttributes<HTMLDivElement>,
28:     VariantProps<typeof badgeVariants> {}
29:
30: function Badge({ className, variant, ...props }: BadgeProps) {
31:   return (
32:     <div className={cn(badgeVariants({ variant }), className)} {...props} />
33:   )
34: }
35:
36: export { Badge, badgeVariants }
```

■ File: components\ui\breadcrumb.tsx

```
1: import * as React from "react"
2: import { Slot } from "@radix-ui/react-slot"
3: import { ChevronRight, MoreHorizontal } from "lucide-react"
4:
5: import { cn } from "@lib/utils"
6:
7: const Breadcrumb = React.forwardRef<
8:   HTMLElement,
9:   React.ComponentPropsWithoutRef<"nav"> & {
10:     separator?: React.ReactNode
11:   }
12: >(({ ...props }, ref) => <nav ref={ref} aria-label="breadcrumb" {...props} />)
13: Breadcrumb.displayName = "Breadcrumb"
14:
15: const BreadcrumbList = React.forwardRef<
16:   HTMLListElement,
17:   React.ComponentPropsWithoutRef<"ol">
18: >(({ className, ...props }, ref) => (
19:   <ol
20:     ref={ref}
21:     className={cn(
22:       "flex flex-wrap items-center gap-1.5 break-words text-sm text-muted-foreground sm:gap-2.5",
23:       className
24:     )}
25:     {...props}
26:   />
```

```

27: ))
28: BreadcrumbList.displayName = "BreadcrumbList"
29:
30: const BreadcrumbItem = React.forwardRef<
31:   HTMLLIElement,
32:   React.ComponentPropsWithoutRef<"li">
33: >(({ className, ...props }, ref) => (
34:   <li
35:     ref={ref}
36:     className={cn("inline-flex items-center gap-1.5", className)}
37:     {...props}
38:   />
39: ))
40: BreadcrumbItem.displayName = "BreadcrumbItem"
41:
42: const BreadcrumbLink = React.forwardRef<
43:   HTMLAnchorElement,
44:   React.ComponentPropsWithoutRef<"a"> & {
45:     asChild?: boolean
46:   }
47: >(({ asChild, className, ...props }, ref) => {
48:   const Comp = asChild ? Slot : "a"
49:
50:   return (
51:     <Comp
52:       ref={ref}
53:       className={cn("transition-colors hover:text-foreground", className)}
54:       {...props}
55:     />
56:   )
57: })
58: BreadcrumbLink.displayName = "BreadcrumbLink"
59:
60: const BreadcrumbPage = React.forwardRef<
61:   HTMLSpanElement,
62:   React.ComponentPropsWithoutRef<"span">
63: >(({ className, ...props }, ref) => (
64:   <span
65:     ref={ref}
66:     role="link"
67:     aria-disabled="true"
68:     aria-current="page"
69:     className={cn("font-normal text-foreground", className)}
70:     {...props}
71:   />
72: ))
73: BreadcrumbPage.displayName = "BreadcrumbPage"
74:
75: const BreadcrumbSeparator = ({
76:   children,
77:   className,
78:   ...props
79: }: React.ComponentProps<"li">) => (
80:   <li
81:     role="presentation"
82:     aria-hidden="true"
83:     className={cn("[&svg]:w-3.5 [&svg]:h-3.5", className)}
84:     {...props}
85:   >
86:     {children ?? <ChevronRight />}
87:   </li>
88: )
89: BreadcrumbSeparator.displayName = "BreadcrumbSeparator"
90:
91: const BreadcrumbEllipsis = ({
92:   className,
93:   ...props
94: }: React.ComponentProps<"span">) => (
95:   <span
96:     role="presentation"
97:     aria-hidden="true"
98:     className={cn("flex h-9 w-9 items-center justify-center", className)}
99:     {...props}

```

```

100:   >
101:   <MoreHorizontal className="h-4 w-4" />
102:   <span className="sr-only">More</span>
103: </span>
104: )
105: BreadcrumbEllipsis.displayName = "BreadcrumbElipssis"
106:
107: export {
108:   Breadcrumb,
109:   BreadcrumbList,
110:   BreadcrumbItem,
111:   BreadcrumbLink,
112:   BreadcrumbPage,
113:   BreadcrumbSeparator,
114:   BreadcrumbEllipsis,
115: }

```

■ File: components\ui\button.tsx

```

=====
1: import * as React from "react"
2: import { Slot } from "@radix-ui/react-slot"
3: import { cva, type VariantProps } from "class-variance-authority"
4:
5: import { cn } from "@lib/utils"
6:
7: const buttonVariants = cva(
8:   "inline-flex items-center justify-center gap-2 whitespace-nowrap rounded-md text-sm font-medium ring-off
9:   {
10:     variants: {
11:       variant: {
12:         default: "bg-primary text-primary-foreground hover:bg-primary/90",
13:         destructive:
14:           "bg-destructive text-destructive-foreground hover:bg-destructive/90",
15:         outline:
16:           "border border-input bg-background hover:bg-accent hover:text-accent-foreground",
17:         secondary:
18:           "bg-secondary text-secondary-foreground hover:bg-secondary/80",
19:         ghost: "hover:bg-accent hover:text-accent-foreground",
20:         link: "text-primary underline-offset-4 hover:underline",
21:       },
22:       size: {
23:         default: "h-10 px-4 py-2",
24:         sm: "h-9 rounded-md px-3",
25:         lg: "h-11 rounded-md px-8",
26:         icon: "h-10 w-10",
27:       },
28:     },
29:     defaultVariants: {
30:       variant: "default",
31:       size: "default",
32:     },
33:   }
34: )
35:
36: export interface ButtonProps
37:   extends React.ButtonHTMLAttributes<HTMLButtonElement>,
38:   VariantProps<typeof buttonVariants> {
39:   asChild?: boolean
40: }
41:
42: const Button = React.forwardRef<HTMLButtonElement, ButtonProps>(
43:   ({ className, variant, size, asChild = false, ...props }, ref) => {
44:     const Comp = asChild ? Slot : "button"
45:     return (
46:       <Comp
47:         className={cn(buttonVariants({ variant, size, className }))}
48:         ref={ref}
49:         {...props}
50:       />
51:     )
52:   }

```

```

53: )
54: Button.displayName = "Button"
55:
56: export { Button, buttonVariants }

```

■ File: components/ui/calendar.tsx

```

=====
1: "use client"
2:
3: import * as React from "react"
4: import { ChevronLeft, ChevronRight } from "lucide-react"
5: import { DayPicker } from "react-day-picker"
6:
7: import { cn } from "@lib/Utils"
8: import { buttonVariants } from "@components/ui/button"
9:
10: export type CalendarProps = React.ComponentProps<typeof DayPicker>
11:
12: function Calendar({
13:   className,
14:   classNames,
15:   showOutsideDays = true,
16:   ...props
17: }: CalendarProps) {
18:   return (
19:     <DayPicker
20:       showOutsideDays={showOutsideDays}
21:       className={cn("p-3", className)}
22:       classNames={{
23:         months: "flex flex-col sm:flex-row space-y-4 sm:space-x-4 sm:space-y-0",
24:         month: "space-y-4",
25:         caption: "flex justify-center pt-1 relative items-center",
26:         caption_label: "text-sm font-medium",
27:         nav: "space-x-1 flex items-center",
28:         nav_button: cn(
29:           buttonVariants({ variant: "outline" }),
30:           "h-7 w-7 bg-transparent p-0 opacity-50 hover:opacity-100"
31:         ),
32:         nav_button_previous: "absolute left-1",
33:         nav_button_next: "absolute right-1",
34:         table: "w-full border-collapse space-y-1",
35:         head_row: "flex",
36:         head_cell:
37:           "text-muted-foreground rounded-md w-9 font-normal text-[0.8rem]",
38:         row: "flex w-full mt-2",
39:         cell: "h-9 w-9 text-center text-sm p-0 relative [&:has([aria-selected].day-range-end)]:rounded-r-md",
40:         day: cn(
41:           buttonVariants({ variant: "ghost" }),
42:           "h-9 w-9 p-0 font-normal aria-selected:opacity-100"
43:         ),
44:         day_range_end: "day-range-end",
45:         day_selected:
46:           "bg-primary text-primary-foreground hover:bg-primary hover:text-primary-foreground focus:bg-primary",
47:         day_today: "bg-accent text-accent-foreground",
48:         day_outside:
49:           "day-outside text-muted-foreground aria-selected:bg-accent/50 aria-selected:text-muted-foreground",
50:         day_disabled: "text-muted-foreground opacity-50",
51:         day_range_middle:
52:           "aria-selected:bg-accent aria-selected:text-accent-foreground",
53:         day_hidden: "invisible",
54:         ...classNames,
55:       }}
56:     components={{
57:       IconLeft: ({ ...props }) => <ChevronLeft className="h-4 w-4" />,
58:       IconRight: ({ ...props }) => <ChevronRight className="h-4 w-4" />,
59:     }}
60:     {...props}
61:   />
62: )
63: }
64: Calendar.displayName = "Calendar"

```

```
65:
66: export { Calendar }
```

■ File: components\ui\card.tsx

```
=====
1: import * as React from "react"
2:
3: import { cn } from "@lib/utils"
4:
5: const Card = React.forwardRef<
6:   HTMLDivElement,
7:   React.HTMLAttributes<HTMLDivElement>
8: >(({ className, ...props }, ref) => (
9:   <div
10:     ref={ref}
11:     className={cn(
12:       "rounded-lg border bg-card text-card-foreground shadow-sm",
13:       className
14:     )}
15:     {...props}
16:   />
17: ))
18: Card.displayName = "Card"
19:
20: const CardHeader = React.forwardRef<
21:   HTMLDivElement,
22:   React.HTMLAttributes<HTMLDivElement>
23: >(({ className, ...props }, ref) => (
24:   <div
25:     ref={ref}
26:     className={cn("flex flex-col space-y-1.5 p-6", className)}
27:     {...props}
28:   />
29: ))
30: CardHeader.displayName = "CardHeader"
31:
32: const CardTitle = React.forwardRef<
33:   HTMLDivElement,
34:   React.HTMLAttributes<HTMLDivElement>
35: >(({ className, ...props }, ref) => (
36:   <div
37:     ref={ref}
38:     className={cn(
39:       "text-2xl font-semibold leading-none tracking-tight",
40:       className
41:     )}
42:     {...props}
43:   />
44: ))
45: CardTitle.displayName = "CardTitle"
46:
47: const CardDescription = React.forwardRef<
48:   HTMLDivElement,
49:   React.HTMLAttributes<HTMLDivElement>
50: >(({ className, ...props }, ref) => (
51:   <div
52:     ref={ref}
53:     className={cn("text-sm text-muted-foreground", className)}
54:     {...props}
55:   />
56: ))
57: CardDescription.displayName = "CardDescription"
58:
59: const CardContent = React.forwardRef<
60:   HTMLDivElement,
61:   React.HTMLAttributes<HTMLDivElement>
62: >(({ className, ...props }, ref) => (
63:   <div ref={ref} className={cn("p-6 pt-0", className)} {...props} />
64: ))
65: CardContent.displayName = "CardContent"
66:
```

```

67: const CardFooter = React.forwardRef<
68:   HTMLDivElement,
69:   React.HTMLAttributes<HTMLDivElement>
70: >(({ className, ...props }, ref) => (
71:   <div
72:     ref={ref}
73:     className={cn("flex items-center p-6 pt-0", className)}
74:     {...props}
75:   />
76: ))
77: CardFooter.displayName = "CardFooter"
78:
79: export { Card, CardHeader, CardFooter, CardTitle, CardDescription, CardContent }

```

■ File: components/ui/carousel.tsx

```

=====
1: "use client"
2:
3: import * as React from "react"
4: import useEmblaCarousel, {
5:   type UseEmblaCarouselType,
6: } from "embla-carousel-react"
7: import { ArrowLeft, ArrowRight } from "lucide-react"
8:
9: import { cn } from "@/lib/utlils"
10: import { Button } from "@/components/ui/button"
11:
12: type CarouselApi = UseEmblaCarouselType[1]
13: type UseCarouselParameters = Parameters<typeof useEmblaCarousel>
14: type CarouselOptions = UseCarouselParameters[0]
15: type CarouselPlugin = UseCarouselParameters[1]
16:
17: type CarouselProps = {
18:   opts?: CarouselOptions
19:   plugins?: CarouselPlugin
20:   orientation?: "horizontal" | "vertical"
21:   setApi?: (api: CarouselApi) => void
22: }
23:
24: type CarouselContextProps = {
25:   carouselRef: ReturnType<typeof useEmblaCarousel>[0]
26:   api: ReturnType<typeof useEmblaCarousel>[1]
27:   scrollPrev: () => void
28:   scrollNext: () => void
29:   canScrollPrev: boolean
30:   canScrollNext: boolean
31: } & CarouselProps
32:
33: const CarouselContext = React.createContext<CarouselContextProps | null>(null)
34:
35: function useCarousel() {
36:   const context = React.useContext(CarouselContext)
37:
38:   if (!context) {
39:     throw new Error("useCarousel must be used within a <Carousel />")
40:   }
41:
42:   return context
43: }
44:
45: const Carousel = React.forwardRef<
46:   HTMLDivElement,
47:   React.HTMLAttributes<HTMLDivElement> & CarouselProps
48: >((
49:   {
50:     {
51:       orientation = "horizontal",
52:       opts,
53:       setApi,
54:       plugins,
55:       className,

```

```

56:     children,
57:     ...props
58:   },
59:   ref
60: ) => {
61:   const [carouselRef, api] = useEmblaCarousel(
62:     {
63:       ...opts,
64:       axis: orientation === "horizontal" ? "x" : "y",
65:     },
66:     plugins
67:   )
68:   const [canScrollPrev, setCanScrollPrev] = React.useState(false)
69:   const [canScrollNext, setCanScrollNext] = React.useState(false)
70:
71:   const onSelect = React.useCallback((api: CarouselApi) => {
72:     if (!api) {
73:       return
74:     }
75:
76:     setCanScrollPrev(api.canScrollPrev())
77:     setCanScrollNext(api.canScrollNext())
78:   }, [])
79:
80:   const scrollPrev = React.useCallback(() => {
81:     api?.scrollPrev()
82:   }, [api])
83:
84:   const scrollNext = React.useCallback(() => {
85:     api?.scrollNext()
86:   }, [api])
87:
88:   const handleKeyDown = React.useCallback(
89:     (event: React.KeyboardEvent<HTMLDivElement>) => {
90:       if (event.key === "ArrowLeft") {
91:         event.preventDefault()
92:         scrollPrev()
93:       } else if (event.key === "ArrowRight") {
94:         event.preventDefault()
95:         scrollNext()
96:       }
97:     },
98:     [scrollPrev, scrollNext]
99:   )
100:
101:   React.useEffect(() => {
102:     if (!api || !setApi) {
103:       return
104:     }
105:
106:     setApi(api)
107:   }, [api, setApi])
108:
109:   React.useEffect(() => {
110:     if (!api) {
111:       return
112:     }
113:
114:     onSelect(api)
115:     api.on("reInit", onSelect)
116:     api.on("select", onSelect)
117:
118:     return () => {
119:       api?.off("select", onSelect)
120:     }
121:   }, [api, onSelect])
122:
123:   return (
124:     <CarouselContext.Provider
125:       value={{
126:         carouselRef,
127:         api: api,
128:         opts,

```



```

129:         orientation:
130:             orientation || (opts?.axis === "y" ? "vertical" : "horizontal"),
131:         scrollPrev,
132:         scrollNext,
133:         canScrollPrev,
134:         canScrollNext,
135:     }}
136: >
137:     <div
138:         ref={ref}
139:         onKeyDownCapture={handleKeyDown}
140:         className={cn("relative", className)}
141:         role="region"
142:         aria-roledescription="carousel"
143:         {...props}
144:     >
145:         {children}
146:     </div>
147: </CarouselContext.Provider>
148: )
149: }
150: )
151: Carousel.displayName = "Carousel"
152:
153: const CarouselContent = React.forwardRef<
154:     HTMLDivElement,
155:     React.HTMLAttributes<HTMLDivElement>
156: >(({ className, ...props }, ref) => {
157:     const { carouselRef, orientation } = useCarousel()
158:
159:     return (
160:         <div ref={carouselRef} className="overflow-hidden">
161:             <div
162:                 ref={ref}
163:                 className={cn(
164:                     "flex",
165:                     orientation === "horizontal" ? "-ml-4" : "-mt-4 flex-col",
166:                     className
167:                 )}
168:                 {...props}
169:             />
170:         </div>
171:     )
172: })
173: CarouselContent.displayName = "CarouselContent"
174:
175: const CarouselItem = React.forwardRef<
176:     HTMLDivElement,
177:     React.HTMLAttributes<HTMLDivElement>
178: >(({ className, ...props }, ref) => {
179:     const { orientation } = useCarousel()
180:
181:     return (
182:         <div
183:             ref={ref}
184:             role="group"
185:             aria-roledescription="slide"
186:             className={cn(
187:                 "min-w-0 shrink-0 grow-0 basis-full",
188:                 orientation === "horizontal" ? "pl-4" : "pt-4",
189:                 className
190:             )}
191:             {...props}
192:         />
193:     )
194: })
195: CarouselItem.displayName = "CarouselItem"
196:
197: const CarouselPrevious = React.forwardRef<
198:     HTMLButtonElement,
199:     React.ComponentProps<typeof Button>
200: >(({ className, variant = "outline", size = "icon", ...props }, ref) => {
201:     const { orientation, scrollPrev, canScrollPrev } = useCarousel()

```

```

202:
203:   return (
204:     <Button
205:       ref={ref}
206:       variant={variant}
207:       size={size}
208:       className={cn(
209:         "absolute h-8 w-8 rounded-full",
210:         orientation === "horizontal"
211:           ? "-left-12 top-1/2 -translate-y-1/2"
212:           : "-top-12 left-1/2 -translate-x-1/2 rotate-90",
213:         className
214:       )}
215:       disabled={!canScrollPrev}
216:       onClick={scrollPrev}
217:       {...props}
218:     >
219:       <ArrowLeft className="h-4 w-4" />
220:       <span className="sr-only">Previous slide</span>
221:     </Button>
222:   )
223: })
224: CarouselPrevious.displayName = "CarouselPrevious"
225:
226: const CarouselNext = React.forwardRef<
227:   HTMLButtonElement,
228:   React.ComponentProps<typeof Button>
229: >(({ className, variant = "outline", size = "icon", ...props }, ref) => {
230:   const { orientation, scrollNext, canScrollNext } = useCarousel()
231:
232:   return (
233:     <Button
234:       ref={ref}
235:       variant={variant}
236:       size={size}
237:       className={cn(
238:         "absolute h-8 w-8 rounded-full",
239:         orientation === "horizontal"
240:           ? "-right-12 top-1/2 -translate-y-1/2"
241:           : "-bottom-12 left-1/2 -translate-x-1/2 rotate-90",
242:         className
243:       )}
244:       disabled={!canScrollNext}
245:       onClick={scrollNext}
246:       {...props}
247:     >
248:       <ArrowRight className="h-4 w-4" />
249:       <span className="sr-only">Next slide</span>
250:     </Button>
251:   )
252: })
253: CarouselNext.displayName = "CarouselNext"
254:
255: export {
256:   type CarouselApi,
257:   Carousel,
258:   CarouselContent,
259:   CarouselItem,
260:   CarouselPrevious,
261:   CarouselNext,
262: }

```

■ File: components/ui/chart.tsx

```

=====
1: "use client"
2:
3: import * as React from "react"
4: import * as RechartsPrimitive from "recharts"
5:
6: import { cn } from "@/lib/utils"
7:

```

```

8: // Format: { THEME_NAME: CSS_SELECTOR }
9: const THEMES = { light: "", dark: ".dark" } as const
10:
11: export type ChartConfig = {
12:   [k in string]: {
13:     label?: React.ReactNode
14:     icon?: React.ComponentType
15:   } & (
16:     | { color?: string; theme?: never }
17:     | { color?: never; theme: Record<keyof typeof THEMES, string> }
18:   )
19: }
20:
21: type ChartContextProps = {
22:   config: ChartConfig
23: }
24:
25: const ChartContext = React.createContext<ChartContextProps | null>(null)
26:
27: function useChart() {
28:   const context = React.useContext(ChartContext)
29:
30:   if (!context) {
31:     throw new Error("useChart must be used within a <ChartContainer />")
32:   }
33:
34:   return context
35: }
36:
37: const ChartContainer = React.forwardRef<
38:   HTMLDivElement,
39:   React.ComponentProps<"div"> & {
40:     config: ChartConfig
41:     children: React.ComponentProps<
42:       typeof RechartsPrimitive.ResponsiveContainer
43:     >["children"]
44:   }
45: >(({ id, className, children, config, ...props }, ref) => {
46:   const uniqueId = React.useId()
47:   const chartId = `chart-${id || uniqueId.replace(/:/g, "")}`
48:
49:   return (
50:     <ChartContext.Provider value={{ config }}>
51:       <div
52:         data-chart={chartId}
53:         ref={ref}
54:         className={cn(
55:           "flex aspect-video justify-center text-xs [&_.recharts-cartesian-axis-tick_text]:fill-muted-foreground",
56:           className
57:         )}
58:         {...props}
59:       >
60:         <ChartStyle id={chartId} config={config} />
61:         <RechartsPrimitive.ResponsiveContainer>
62:           {children}
63:         </RechartsPrimitive.ResponsiveContainer>
64:       </div>
65:     </ChartContext.Provider>
66:   )
67: })
68: ChartContainer.displayName = "Chart"
69:
70: const ChartStyle = ({ id, config }: { id: string; config: ChartConfig }) => {
71:   const colorConfig = Object.entries(config).filter(
72:     ([_, config]) => config.theme || config.color
73:   )
74:
75:   if (!colorConfig.length) {
76:     return null
77:   }
78:
79:   return (
80:     <style

```

```

81:     dangerouslySetInnerHTML={{
82:       __html: Object.entries(THEMES)
83:     }.map(
84:       ([theme, prefix]) => `
85:     ${prefix} [data-chart=${id}] {
86:     ${colorConfig
87:       .map(([key, itemConfig]) => {
88:         const color =
89:           itemConfig.theme?.[theme as keyof typeof itemConfig.theme] ||
90:           itemConfig.color
91:         return color ? `--color-${key}: ${color};` : null
92:       })
93:       .join("\n")}
94:   }
95: `
96:     )
97:     .join("\n"),
98:   }}
99:   />
100: )
101: }
102:
103: const ChartTooltip = RechartsPrimitive.Tooltip
104:
105: const ChartTooltipContent = React.forwardRef<
106:   HTMLDivElement,
107:   React.ComponentProps<typeof RechartsPrimitive.Tooltip> &
108:   React.ComponentProps<"div"> & {
109:     hideLabel?: boolean
110:     hideIndicator?: boolean
111:     indicator?: "line" | "dot" | "dashed"
112:     nameKey?: string
113:     labelKey?: string
114:   }
115: >(
116:   (
117:     {
118:       active,
119:       payload,
120:       className,
121:       indicator = "dot",
122:       hideLabel = false,
123:       hideIndicator = false,
124:       label,
125:       labelFormatter,
126:       labelClassName,
127:       formatter,
128:       color,
129:       nameKey,
130:       labelKey,
131:     },
132:     ref
133:   ) => {
134:     const { config } = useChart()
135:
136:     const tooltipLabel = React.useMemo(() => {
137:       if (hideLabel || !payload?.length) {
138:         return null
139:       }
140:
141:       const [item] = payload
142:       const key = `${labelKey || item.dataKey || item.name || "value"}`
143:       const itemConfig = getPayloadConfigFromPayload(config, item, key)
144:       const value =
145:         !labelKey && typeof label === "string"
146:           ? config[label as keyof typeof config]?.label || label
147:           : itemConfig?.label
148:
149:       if (labelFormatter) {
150:         return (
151:           <div className={cn("font-medium", labelClassName)}>
152:             {labelFormatter(value, payload)}
153:           </div>

```

```

154:         )
155:     }
156:
157:     if (!value) {
158:         return null
159:     }
160:
161:     return <div className={cn("font-medium", labelClassName)}>{value}</div>
162: }, [
163:     label,
164:     labelFormatter,
165:     payload,
166:     hideLabel,
167:     labelClassName,
168:     config,
169:     labelKey,
170: ])
171:
172: if (!active || !payload?.length) {
173:     return null
174: }
175:
176: const nestLabel = payload.length === 1 && indicator !== "dot"
177:
178: return (
179:     <div
180:         ref={ref}
181:         className={cn(
182:             "grid min-w-[8rem] items-start gap-1.5 rounded-lg border border-border/50 bg-background px-2.5 py-2",
183:             className
184:         )}
185:     >
186:         {!nestLabel ? tooltipLabel : null}
187:         <div className="grid gap-1.5">
188:             {payload.map((item, index) => {
189:                 const key = `${nameKey || item.name || item.dataKey || "value"}`
190:                 const itemConfig = getPayloadConfigFromPayload(config, item, key)
191:                 const indicatorColor = color || item.payload.fill || item.color
192:
193:                 return (
194:                     <div
195:                         key={item.dataKey}
196:                         className={cn(
197:                             "flex w-full flex-wrap items-stretch gap-2 [&svg]:h-2.5 [&svg]:w-2.5 [&svg]:text-muted-foreground",
198:                             indicator === "dot" && "items-center"
199:                         )}
200:                     >
201:                         {formatter && item?.value !== undefined && item.name ? (
202:                             formatter(item.value, item.name, item, index, item.payload)
203:                         ) : (
204:                             <>
205:                                 {itemConfig?.icon ? (
206:                                     <itemConfig.icon />
207:                                 ) : (
208:                                     !hideIndicator && (
209:                                         <div
210:                                             className={cn(
211:                                                 "shrink-0 rounded-[2px] border-[--color-border] bg-[--color-bg]",
212:                                                 {
213:                                                     "h-2.5 w-2.5": indicator === "dot",
214:                                                     "w-1": indicator === "line",
215:                                                     "w-0 border-[1.5px] border-dashed bg-transparent":
216:                                                         indicator === "dashed",
217:                                                     "my-0.5": nestLabel && indicator === "dashed",
218:                                                 }
219:                                             )}
220:                                         style={
221:                                             {
222:                                                 "--color-bg": indicatorColor,
223:                                                 "--color-border": indicatorColor,
224:                                             } as React.CSSProperties
225:                                         }
226:                                     </div>

```

```

227:         )
228:     })
229:     <div
230:         className={cn(
231:             "flex flex-1 justify-between leading-none",
232:             nestLabel ? "items-end" : "items-center"
233:         )}
234:     >
235:         <div className="grid gap-1.5">
236:             {nestLabel ? tooltipLabel : null}
237:             <span className="text-muted-foreground">
238:                 {itemConfig?.label || item.name}
239:             </span>
240:         </div>
241:         {item.value && (
242:             <span className="font-mono font-medium tabular-nums text-foreground">
243:                 {item.value.toLocaleString()}
244:             </span>
245:         )}
246:     </div>
247: </>
248:     )}
249: </div>
250: )
251: )}
252: </div>
253: </div>
254: )
255: }
256: )
257: ChartTooltipContent.displayName = "ChartTooltip"
258:
259: const ChartLegend = RechartsPrimitive.Legend
260:
261: const ChartLegendContent = React.forwardRef<
262:     HTMLDivElement,
263:     React.ComponentProps<"div"> &
264:         Pick<RechartsPrimitive.LegendProps, "payload" | "verticalAlign"> & {
265:             hideIcon?: boolean
266:             nameKey?: string
267:         }
268: > (
269:     {
270:         { className, hideIcon = false, payload, verticalAlign = "bottom", nameKey },
271:         ref
272:     } => {
273:         const { config } = useChart()
274:
275:         if (!payload?.length) {
276:             return null
277:         }
278:
279:         return (
280:             <div
281:                 ref={ref}
282:                 className={cn(
283:                     "flex items-center justify-center gap-4",
284:                     verticalAlign === "top" ? "pb-3" : "pt-3",
285:                     className
286:                 )}
287:             >
288:                 {payload.map((item) => {
289:                     const key = `${nameKey || item.dataKey || "value"}`
290:                     const itemConfig = getPayloadConfigFromPayload(config, item, key)
291:
292:                     return (
293:                         <div
294:                             key={item.value}
295:                             className={cn(
296:                                 "flex items-center gap-1.5 [&svg]:h-3 [&svg]:w-3 [&svg]:text-muted-foreground"
297:                             )}
298:                         >
299:                             {itemConfig?.icon && !hideIcon ? (

```

```

300:         <itemConfig.icon />
301:     ) : (
302:         <div
303:             className="h-2 w-2 shrink-0 rounded-[2px]"
304:             style={{
305:                 backgroundColor: item.color,
306:             }}
307:         />
308:     )}
309:     {itemConfig?.label}
310: </div>
311: )
312: }}}}
313: </div>
314: )
315: }
316: )
317: ChartLegendContent.displayName = "ChartLegend"
318:
319: // Helper to extract item config from a payload.
320: function getPayloadConfigFromPayload(
321:     config: ChartConfig,
322:     payload: unknown,
323:     key: string
324: ) {
325:     if (typeof payload !== "object" || payload === null) {
326:         return undefined
327:     }
328:
329:     const payloadPayload =
330:         "payload" in payload &&
331:         typeof payload.payload === "object" &&
332:         payload.payload !== null
333:         ? payload.payload
334:         : undefined
335:
336:     let configLabelKey: string = key
337:
338:     if (
339:         key in payload &&
340:         typeof payload[key as keyof typeof payload] === "string"
341:     ) {
342:         configLabelKey = payload[key as keyof typeof payload] as string
343:     } else if (
344:         payloadPayload &&
345:         key in payloadPayload &&
346:         typeof payloadPayload[key as keyof typeof payloadPayload] === "string"
347:     ) {
348:         configLabelKey = payloadPayload[
349:             key as keyof typeof payloadPayload
350:         ] as string
351:     }
352:
353:     return configLabelKey in config
354:         ? config[configLabelKey]
355:         : config[key as keyof typeof config]
356: }
357:
358: export {
359:     ChartContainer,
360:     ChartTooltip,
361:     ChartTooltipContent,
362:     ChartLegend,
363:     ChartLegendContent,
364:     ChartStyle,
365: }

```

File: components\ui\checkbox.tsx

```

=====
1: "use client"
2:

```

```

3: import * as React from "react"
4: import * as CheckboxPrimitive from "@radix-ui/react-checkbox"
5: import { Check } from "lucide-react"
6:
7: import { cn } from "@lib/utils"
8:
9: const Checkbox = React.forwardRef<
10:   React.ElementRef<typeof CheckboxPrimitive.Root>,
11:   React.ComponentPropsWithoutRef<typeof CheckboxPrimitive.Root>
12: >(({ className, ...props }, ref) => (
13:   <CheckboxPrimitive.Root
14:     ref={ref}
15:     className={cn(
16:       "peer h-4 w-4 shrink-0 rounded-sm border border-primary ring-offset-background focus-visible:outline-1
17:       className
18:     )}
19:     {...props}
20:   >
21:     <CheckboxPrimitive.Indicator
22:       className={cn("flex items-center justify-center text-current")}
23:     >
24:       <Check className="h-4 w-4" />
25:     </CheckboxPrimitive.Indicator>
26:   </CheckboxPrimitive.Root>
27: ))
28: Checkbox.displayName = CheckboxPrimitive.Root.displayName
29:
30: export { Checkbox }

```

■ File: components/ui/collapsible.tsx

```

1: "use client"
2:
3: import * as CollapsiblePrimitive from "@radix-ui/react-collapsible"
4:
5: const Collapsible = CollapsiblePrimitive.Root
6:
7: const CollapsibleTrigger = CollapsiblePrimitive.CollapsibleTrigger
8:
9: const CollapsibleContent = CollapsiblePrimitive.CollapsibleContent
10:
11: export { Collapsible, CollapsibleTrigger, CollapsibleContent }

```

■ File: components/ui/command.tsx

```

1: "use client"
2:
3: import * as React from "react"
4: import { type DialogProps } from "@radix-ui/react-dialog"
5: import { Command as CommandPrimitive } from "cmdk"
6: import { Search } from "lucide-react"
7:
8: import { cn } from "@lib/utils"
9: import { Dialog, DialogContent } from "@components/ui/dialog"
10:
11: const Command = React.forwardRef<
12:   React.ElementRef<typeof CommandPrimitive>,
13:   React.ComponentPropsWithoutRef<typeof CommandPrimitive>
14: >(({ className, ...props }, ref) => (
15:   <CommandPrimitive
16:     ref={ref}
17:     className={cn(
18:       "flex h-full w-full flex-col overflow-hidden rounded-md bg-popover text-popover-foreground",
19:       className
20:     )}
21:     {...props}
22:   />
23: ))
24: Command.displayName = CommandPrimitive.displayName

```



```

25:
26: const CommandDialog = ({ children, ...props }: DialogProps) => {
27:   return (
28:     <Dialog {...props}>
29:       <DialogContent className="overflow-hidden p-0 shadow-lg">
30:         <Command className="[&[cmdk-group-heading]]:px-2 [&[cmdk-group-heading]]:font-medium [&[cmdk-group-heading]]:text-sm">
31:           {children}
32:         </Command>
33:       </DialogContent>
34:     </Dialog>
35:   )
36: }
37:
38: const CommandInput = React.forwardRef<
39:   React.ElementRef<typeof CommandPrimitive.Input>,
40:   React.ComponentPropsWithoutRef<typeof CommandPrimitive.Input>
41: >(({ className, ...props }, ref) => (
42:   <div className="flex items-center border-b px-3 cmdk-input-wrapper=">
43:     <Search className="mr-2 h-4 w-4 shrink-0 opacity-50" />
44:     <CommandPrimitive.Input
45:       ref={ref}
46:       className={cn(
47:         "flex h-11 w-full rounded-md bg-transparent py-3 text-sm outline-none placeholder:text-muted-foreground",
48:         className
49:       )}
50:       {...props}
51:     />
52:   </div>
53: ))
54:
55: CommandInput.displayName = CommandPrimitive.Input.displayName
56:
57: const CommandList = React.forwardRef<
58:   React.ElementRef<typeof CommandPrimitive.List>,
59:   React.ComponentPropsWithoutRef<typeof CommandPrimitive.List>
60: >(({ className, ...props }, ref) => (
61:   <CommandPrimitive.List
62:     ref={ref}
63:     className={cn("max-h-[300px] overflow-y-auto overflow-x-hidden", className)}
64:     {...props}
65:   />
66: ))
67:
68: CommandList.displayName = CommandPrimitive.List.displayName
69:
70: const CommandEmpty = React.forwardRef<
71:   React.ElementRef<typeof CommandPrimitive.Empty>,
72:   React.ComponentPropsWithoutRef<typeof CommandPrimitive.Empty>
73: >((props, ref) => (
74:   <CommandPrimitive.Empty
75:     ref={ref}
76:     className="py-6 text-center text-sm"
77:     {...props}
78:   />
79: ))
80:
81: CommandEmpty.displayName = CommandPrimitive.Empty.displayName
82:
83: const CommandGroup = React.forwardRef<
84:   React.ElementRef<typeof CommandPrimitive.Group>,
85:   React.ComponentPropsWithoutRef<typeof CommandPrimitive.Group>
86: >(({ className, ...props }, ref) => (
87:   <CommandPrimitive.Group
88:     ref={ref}
89:     className={cn(
90:       "overflow-hidden p-1 text-foreground [&[cmdk-group-heading]]:px-2 [&[cmdk-group-heading]]:py-1.5 [&[cmdk-group-heading]]:text-sm",
91:       className
92:     )}
93:     {...props}
94:   />
95: ))
96:
97: CommandGroup.displayName = CommandPrimitive.Group.displayName

```

```

98:
99: const CommandSeparator = React.forwardRef<
100:   React.ElementRef<typeof CommandPrimitive.Separator>,
101:   React.ComponentPropsWithoutRef<typeof CommandPrimitive.Separator>
102: >(({ className, ...props }, ref) => (
103:   <CommandPrimitive.Separator
104:     ref={ref}
105:     className={cn("-mx-1 h-py bg-border", className)}
106:     {...props}
107:   />
108: ))
109: CommandSeparator.displayName = CommandPrimitive.Separator.displayName
110:
111: const CommandItem = React.forwardRef<
112:   React.ElementRef<typeof CommandPrimitive.Item>,
113:   React.ComponentPropsWithoutRef<typeof CommandPrimitive.Item>
114: >(({ className, ...props }, ref) => (
115:   <CommandPrimitive.Item
116:     ref={ref}
117:     className={cn(
118:       "relative flex cursor-default gap-2 select-none items-center rounded-sm px-2 py-1.5 text-sm outline-n
119:       className
120:     )}
121:     {...props}
122:   />
123: ))
124:
125: CommandItem.displayName = CommandPrimitive.Item.displayName
126:
127: const CommandShortcut = ({
128:   className,
129:   ...props
130: }: React.HTMLAttributes<HTMLSpanElement>) => {
131:   return (
132:     <span
133:       className={cn(
134:         "ml-auto text-xs tracking-widest text-muted-foreground",
135:         className
136:       )}
137:       {...props}
138:     />
139:   )
140: }
141: CommandShortcut.displayName = "CommandShortcut"
142:
143: export {
144:   Command,
145:   CommandDialog,
146:   CommandInput,
147:   CommandList,
148:   CommandEmpty,
149:   CommandGroup,
150:   CommandItem,
151:   CommandShortcut,
152:   CommandSeparator,
153: }

```

■ File: components/ui/context-menu.tsx

```

1: "use client"
2:
3: import * as React from "react"
4: import * as ContextMenuPrimitive from "@radix-ui/react-context-menu"
5: import { Check, ChevronRight, Circle } from "lucide-react"
6:
7: import { cn } from "@/lib/utils"
8:
9: const ContextMenu = ContextMenuPrimitive.Root
10:
11: const ContextMenuTrigger = ContextMenuPrimitive.Trigger
12:

```

```

13: const ContextMenuGroup = ContextMenuPrimitive.Group
14:
15: const ContextMenuPortal = ContextMenuPrimitive.Portal
16:
17: const ContextMenuSub = ContextMenuPrimitive.Sub
18:
19: const ContextMenuRadioGroup = ContextMenuPrimitive.RadioGroup
20:
21: const ContextMenuSubTrigger = React.forwardRef<
22:   React.ElementRef<typeof ContextMenuPrimitive.SubTrigger>,
23:   React.ComponentPropsWithoutRef<typeof ContextMenuPrimitive.SubTrigger> & {
24:     inset?: boolean
25:   }
26: >(({ className, inset, children, ...props }, ref) => (
27:   <ContextMenuPrimitive.SubTrigger
28:     ref={ref}
29:     className={cn(
30:       "flex cursor-default select-none items-center rounded-sm px-2 py-1.5 text-sm outline-none focus:bg-accent",
31:       inset && "pl-8",
32:       className
33:     )}
34:     {...props}
35:   >
36:     {children}
37:     <ChevronRight className="ml-auto h-4 w-4" />
38:   </ContextMenuPrimitive.SubTrigger>
39: ))
40: ContextMenuSubTrigger.displayName = ContextMenuPrimitive.SubTrigger.displayName
41:
42: const ContextMenuSubContent = React.forwardRef<
43:   React.ElementRef<typeof ContextMenuPrimitive.SubContent>,
44:   React.ComponentPropsWithoutRef<typeof ContextMenuPrimitive.SubContent>
45: >(({ className, ...props }, ref) => (
46:   <ContextMenuPrimitive.SubContent
47:     ref={ref}
48:     className={cn(
49:       "z-50 min-w-[8rem] overflow-hidden rounded-md border bg-popover p-1 text-popover-foreground shadow-md",
50:       className
51:     )}
52:     {...props}
53:   />
54: ))
55: ContextMenuSubContent.displayName = ContextMenuPrimitive.SubContent.displayName
56:
57: const ContextMenuContent = React.forwardRef<
58:   React.ElementRef<typeof ContextMenuPrimitive.Content>,
59:   React.ComponentPropsWithoutRef<typeof ContextMenuPrimitive.Content>
60: >(({ className, ...props }, ref) => (
61:   <ContextMenuPrimitive.Portal>
62:     <ContextMenuPrimitive.Content
63:       ref={ref}
64:       className={cn(
65:         "z-50 min-w-[8rem] overflow-hidden rounded-md border bg-popover p-1 text-popover-foreground shadow-md",
66:         className
67:       )}
68:       {...props}
69:     />
70:   </ContextMenuPrimitive.Portal>
71: ))
72: ContextMenuContent.displayName = ContextMenuPrimitive.Content.displayName
73:
74: const ContextMenuItem = React.forwardRef<
75:   React.ElementRef<typeof ContextMenuPrimitive.Item>,
76:   React.ComponentPropsWithoutRef<typeof ContextMenuPrimitive.Item> & {
77:     inset?: boolean
78:   }
79: >(({ className, inset, ...props }, ref) => (
80:   <ContextMenuPrimitive.Item
81:     ref={ref}
82:     className={cn(
83:       "relative flex cursor-default select-none items-center rounded-sm px-2 py-1.5 text-sm outline-none focus:bg-accent",
84:       inset && "pl-8",
85:       className

```

```

86:     })
87:     {...props}
88:   />
89: ))
90: ContextMenuItem.displayName = ContextMenuPrimitive.Item.displayName
91:
92: const ContextMenuCheckboxItem = React.forwardRef<
93:   React.ElementRef<typeof ContextMenuPrimitive.CheckboxItem>,
94:   React.ComponentPropsWithoutRef<typeof ContextMenuPrimitive.CheckboxItem>
95: >(({ className, children, checked, ...props }, ref) => (
96:   <ContextMenuPrimitive.CheckboxItem
97:     ref={ref}
98:     className={cn(
99:       "relative flex cursor-default select-none items-center rounded-sm py-1.5 pl-8 pr-2 text-sm outline-none",
100:      className
101:    )}
102:     checked={checked}
103:     {...props}
104:   >
105:     <span className="absolute left-2 flex h-3.5 w-3.5 items-center justify-center">
106:       <ContextMenuPrimitive.ItemIndicator>
107:         <Check className="h-4 w-4" />
108:       </ContextMenuPrimitive.ItemIndicator>
109:     </span>
110:     {children}
111:   </ContextMenuPrimitive.CheckboxItem>
112: ))
113: ContextMenuCheckboxItem.displayName =
114:   ContextMenuPrimitive.CheckboxItem.displayName
115:
116: const ContextMenuRadioItem = React.forwardRef<
117:   React.ElementRef<typeof ContextMenuPrimitive.RadioItem>,
118:   React.ComponentPropsWithoutRef<typeof ContextMenuPrimitive.RadioItem>
119: >(({ className, children, ...props }, ref) => (
120:   <ContextMenuPrimitive.RadioItem
121:     ref={ref}
122:     className={cn(
123:       "relative flex cursor-default select-none items-center rounded-sm py-1.5 pl-8 pr-2 text-sm outline-none",
124:      className
125:    )}
126:     {...props}
127:   >
128:     <span className="absolute left-2 flex h-3.5 w-3.5 items-center justify-center">
129:       <ContextMenuPrimitive.ItemIndicator>
130:         <Circle className="h-2 w-2 fill-current" />
131:       </ContextMenuPrimitive.ItemIndicator>
132:     </span>
133:     {children}
134:   </ContextMenuPrimitive.RadioItem>
135: ))
136: ContextMenuRadioItem.displayName = ContextMenuPrimitive.RadioItem.displayName
137:
138: const ContextMenuLabel = React.forwardRef<
139:   React.ElementRef<typeof ContextMenuPrimitive.Label>,
140:   React.ComponentPropsWithoutRef<typeof ContextMenuPrimitive.Label> & {
141:     inset?: boolean
142:   }
143: >(({ className, inset, ...props }, ref) => (
144:   <ContextMenuPrimitive.Label
145:     ref={ref}
146:     className={cn(
147:       "px-2 py-1.5 text-sm font-semibold text-foreground",
148:       inset && "pl-8",
149:      className
150:    )}
151:     {...props}
152:   />
153: ))
154: ContextMenuLabel.displayName = ContextMenuPrimitive.Label.displayName
155:
156: const ContextMenuSeparator = React.forwardRef<
157:   React.ElementRef<typeof ContextMenuPrimitive.Separator>,
158:   React.ComponentPropsWithoutRef<typeof ContextMenuPrimitive.Separator>

```

```

159: >(({ className, ...props }, ref) => (
160:   <ContextMenuPrimitive.Separator
161:     ref={ref}
162:     className={cn("-mx-1 my-1 h-px bg-border", className)}
163:     {...props}
164:   />
165: ))
166: ContextMenuSeparator.displayName = ContextMenuPrimitive.Separator.displayName
167:
168: const ContextMenuShortcut = ({
169:   className,
170:   ...props
171: }: React.HTMLAttributes<HTMLSpanElement>) => {
172:   return (
173:     <span
174:       className={cn(
175:         "ml-auto text-xs tracking-widest text-muted-foreground",
176:         className
177:       )}
178:       {...props}
179:     />
180:   )
181: }
182: ContextMenuShortcut.displayName = "ContextMenuShortcut"
183:
184: export {
185:   ContextMenu,
186:   ContextMenuTrigger,
187:   ContextMenuContent,
188:   ContextMenuItem,
189:   ContextMenuCheckboxItem,
190:   ContextMenuRadioItem,
191:   ContextMenuLabel,
192:   ContextMenuSeparator,
193:   ContextMenuShortcut,
194:   ContextMenuGroup,
195:   ContextMenuPortal,
196:   ContextMenuSub,
197:   ContextMenuSubContent,
198:   ContextMenuSubTrigger,
199:   ContextMenuRadioGroup,
200: }

```

■ File: components/ui/dialog.tsx

```

=====
1: "use client"
2:
3: import * as React from "react"
4: import * as DialogPrimitive from "@radix-ui/react-dialog"
5: import { X } from "lucide-react"
6:
7: import { cn } from "@/lib/utils"
8:
9: const Dialog = DialogPrimitive.Root
10:
11: const DialogTrigger = DialogPrimitive.Trigger
12:
13: const DialogPortal = DialogPrimitive.Portal
14:
15: const DialogClose = DialogPrimitive.Close
16:
17: const DialogOverlay = React.forwardRef<
18:   React.ElementRef<typeof DialogPrimitive.Overlay>,
19:   React.ComponentPropsWithoutRef<typeof DialogPrimitive.Overlay>
20: >(({ className, ...props }, ref) => (
21:   <DialogPrimitive.Overlay
22:     ref={ref}
23:     className={cn(
24:       "fixed inset-0 z-50 bg-black/80 data-[state=open]:animate-in data-[state=closed]:animate-out data-[state=closed]:fade-out-0 data-[state=open]:fade-in-0",
25:       className
26:     )}

```

```

27:     {...props}
28:   />
29: ))
30: DialogOverlay.displayName = DialogPrimitive.Overlay.displayName
31:
32: const DialogContent = React.forwardRef<
33:   React.ElementRef<typeof DialogPrimitive.Content>,
34:   React.ComponentPropsWithoutRef<typeof DialogPrimitive.Content>
35: >(({ className, children, ...props }, ref) => (
36:   <DialogPortal>
37:     <DialogOverlay />
38:     <DialogPrimitive.Content
39:       ref={ref}
40:       className={cn(
41:         "fixed left-[50%] top-[50%] z-50 grid w-full max-w-lg translate-x-[-50%] translate-y-[-50%] gap-4 b
42:         className
43:       )}
44:       {...props}
45:     >
46:       {children}
47:       <DialogPrimitive.Close className="absolute right-4 top-4 rounded-sm opacity-70 ring-offset-background
48:         <X className="h-4 w-4" />
49:         <span className="sr-only">Close</span>
50:       </DialogPrimitive.Close>
51:     </DialogPrimitive.Content>
52:   </DialogPortal>
53: ))
54: DialogContent.displayName = DialogPrimitive.Content.displayName
55:
56: const DialogHeader = ({
57:   className,
58:   ...props
59: }: React.HTMLAttributes<HTMLDivElement>) => (
60:   <div
61:     className={cn(
62:       "flex flex-col space-y-1.5 text-center sm:text-left",
63:       className
64:     )}
65:     {...props}
66:   />
67: )
68: DialogHeader.displayName = "DialogHeader"
69:
70: const DialogFooter = ({
71:   className,
72:   ...props
73: }: React.HTMLAttributes<HTMLDivElement>) => (
74:   <div
75:     className={cn(
76:       "flex flex-col-reverse sm:flex-row sm:justify-end sm:space-x-2",
77:       className
78:     )}
79:     {...props}
80:   />
81: )
82: DialogFooter.displayName = "DialogFooter"
83:
84: const DialogTitle = React.forwardRef<
85:   React.ElementRef<typeof DialogPrimitive.Title>,
86:   React.ComponentPropsWithoutRef<typeof DialogPrimitive.Title>
87: >(({ className, ...props }, ref) => (
88:   <DialogPrimitive.Title
89:     ref={ref}
90:     className={cn(
91:       "text-lg font-semibold leading-none tracking-tight",
92:       className
93:     )}
94:     {...props}
95:   />
96: ))
97: DialogTitle.displayName = DialogPrimitive.Title.displayName
98:
99: const DialogDescription = React.forwardRef<

```

```

100:   React.ElementRef<typeof DialogPrimitive.Description>,
101:   React.ComponentPropsWithoutRef<typeof DialogPrimitive.Description>
102: >(({ className, ...props }, ref) => (
103:   <DialogPrimitive.Description
104:     ref={ref}
105:     className={cn("text-sm text-muted-foreground", className)}
106:     {...props}
107:   />
108: ))
109: DialogDescription.displayName = DialogPrimitive.Description.displayName
110:
111: export {
112:   Dialog,
113:   DialogPortal,
114:   DialogOverlay,
115:   DialogClose,
116:   DialogTrigger,
117:   DialogContent,
118:   DialogHeader,
119:   DialogFooter,
120:   DialogTitle,
121:   DialogDescription,
122: }

```

■ File: components/ui/drawer.tsx

```

=====
1: "use client"
2:
3: import * as React from "react"
4: import { Drawer as DrawerPrimitive } from "vaul"
5:
6: import { cn } from "@/lib/utils"
7:
8: const Drawer = ({
9:   shouldScaleBackground = true,
10:   ...props
11: }: React.ComponentProps<typeof DrawerPrimitive.Root>) => (
12:   <DrawerPrimitive.Root
13:     shouldScaleBackground={shouldScaleBackground}
14:     {...props}
15:   />
16: )
17: Drawer.displayName = "Drawer"
18:
19: const DrawerTrigger = DrawerPrimitive.Trigger
20:
21: const DrawerPortal = DrawerPrimitive.Portal
22:
23: const DrawerClose = DrawerPrimitive.Close
24:
25: const DrawerOverlay = React.forwardRef<
26:   React.ElementRef<typeof DrawerPrimitive.Overlay>,
27:   React.ComponentPropsWithoutRef<typeof DrawerPrimitive.Overlay>
28: >(({ className, ...props }, ref) => (
29:   <DrawerPrimitive.Overlay
30:     ref={ref}
31:     className={cn("fixed inset-0 z-50 bg-black/80", className)}
32:     {...props}
33:   />
34: ))
35: DrawerOverlay.displayName = DrawerPrimitive.Overlay.displayName
36:
37: const DrawerContent = React.forwardRef<
38:   React.ElementRef<typeof DrawerPrimitive.Content>,
39:   React.ComponentPropsWithoutRef<typeof DrawerPrimitive.Content>
40: >(({ className, children, ...props }, ref) => (
41:   <DrawerPortal>
42:     <DrawerOverlay />
43:     <DrawerPrimitive.Content
44:       ref={ref}
45:       className={cn(

```

```

46:         "fixed inset-x-0 bottom-0 z-50 mt-24 flex h-auto flex-col rounded-t-[10px] border bg-background",
47:         className
48:     )}
49:     {...props}
50:   >
51:     <div className="mx-auto mt-4 h-2 w-[100px] rounded-full bg-muted" />
52:     {children}
53:   </DrawerPrimitive.Content>
54: </DrawerPortal>
55: ))
56: DrawerContent.displayName = "DrawerContent"
57:
58: const DrawerHeader = ({
59:   className,
60:   ...props
61: }: React.HTMLAttributes<HTMLDivElement>) => (
62:   <div
63:     className={cn("grid gap-1.5 p-4 text-center sm:text-left", className)}
64:     {...props}
65:   />
66: )
67: DrawerHeader.displayName = "DrawerHeader"
68:
69: const DrawerFooter = ({
70:   className,
71:   ...props
72: }: React.HTMLAttributes<HTMLDivElement>) => (
73:   <div
74:     className={cn("mt-auto flex flex-col gap-2 p-4", className)}
75:     {...props}
76:   />
77: )
78: DrawerFooter.displayName = "DrawerFooter"
79:
80: const DrawerTitle = React.forwardRef<
81:   React.ElementRef<typeof DrawerPrimitive.Title>,
82:   React.ComponentPropsWithoutRef<typeof DrawerPrimitive.Title>
83: >(({ className, ...props }, ref) => (
84:   <DrawerPrimitive.Title
85:     ref={ref}
86:     className={cn(
87:       "text-lg font-semibold leading-none tracking-tight",
88:       className
89:     )}
90:     {...props}
91:   />
92: ))
93: DrawerTitle.displayName = DrawerPrimitive.Title.displayName
94:
95: const DrawerDescription = React.forwardRef<
96:   React.ElementRef<typeof DrawerPrimitive.Description>,
97:   React.ComponentPropsWithoutRef<typeof DrawerPrimitive.Description>
98: >(({ className, ...props }, ref) => (
99:   <DrawerPrimitive.Description
100:     ref={ref}
101:     className={cn("text-sm text-muted-foreground", className)}
102:     {...props}
103:   />
104: ))
105: DrawerDescription.displayName = DrawerPrimitive.Description.displayName
106:
107: export {
108:   Drawer,
109:   DrawerPortal,
110:   DrawerOverlay,
111:   DrawerTrigger,
112:   DrawerClose,
113:   DrawerContent,
114:   DrawerHeader,
115:   DrawerFooter,
116:   DrawerTitle,
117:   DrawerDescription,
118: }

```


■ File: components/ui/dropdown-menu.tsx

```
=====
1: "use client"
2:
3: import * as React from "react"
4: import * as DropdownMenuPrimitive from "@radix-ui/react-dropdown-menu"
5: import { Check, ChevronRight, Circle } from "lucide-react"
6:
7: import { cn } from "@lib/Utils"
8:
9: const DropdownMenu = DropdownMenuPrimitive.Root
10:
11: const DropdownMenuTrigger = DropdownMenuPrimitive.Trigger
12:
13: const DropdownMenuGroup = DropdownMenuPrimitive.Group
14:
15: const DropdownMenuPortal = DropdownMenuPrimitive.Portal
16:
17: const DropdownMenuSub = DropdownMenuPrimitive.Sub
18:
19: const DropdownMenuRadioGroup = DropdownMenuPrimitive.RadioGroup
20:
21: const DropdownMenuSubTrigger = React.forwardRef<
22:   React.ElementRef<typeof DropdownMenuPrimitive.SubTrigger>,
23:   React.ComponentPropsWithoutRef<typeof DropdownMenuPrimitive.SubTrigger> & {
24:     inset?: boolean
25:   }
26: >(({ className, inset, children, ...props }, ref) => (
27:   <DropdownMenuPrimitive.SubTrigger
28:     ref={ref}
29:     className={cn(
30:       "flex cursor-default gap-2 select-none items-center rounded-sm px-2 py-1.5 text-sm outline-none focus
31:       inset && "pl-8",
32:       className
33:     )}
34:     {...props}
35:   >
36:     {children}
37:     <ChevronRight className="ml-auto" />
38:   </DropdownMenuPrimitive.SubTrigger>
39: ))
40: DropdownMenuSubTrigger.displayName =
41:   DropdownMenuPrimitive.SubTrigger.displayName
42:
43: const DropdownMenuSubContent = React.forwardRef<
44:   React.ElementRef<typeof DropdownMenuPrimitive.SubContent>,
45:   React.ComponentPropsWithoutRef<typeof DropdownMenuPrimitive.SubContent>
46: >(({ className, ...props }, ref) => (
47:   <DropdownMenuPrimitive.SubContent
48:     ref={ref}
49:     className={cn(
50:       "z-50 min-w-[8rem] overflow-hidden rounded-md border bg-popover p-1 text-popover-foreground shadow-lg
51:       className
52:     )}
53:     {...props}
54:   />
55: ))
56: DropdownMenuSubContent.displayName =
57:   DropdownMenuPrimitive.SubContent.displayName
58:
59: const DropdownMenuContent = React.forwardRef<
60:   React.ElementRef<typeof DropdownMenuPrimitive.Content>,
61:   React.ComponentPropsWithoutRef<typeof DropdownMenuPrimitive.Content>
62: >(({ className, sideOffset = 4, ...props }, ref) => (
63:   <DropdownMenuPrimitive.Portal>
64:     <DropdownMenuPrimitive.Content
65:       ref={ref}
66:       sideOffset={sideOffset}
67:       className={cn(
68:         "z-50 min-w-[8rem] overflow-hidden rounded-md border bg-popover p-1 text-popover-foreground shadow-
69:         className
70:       )}
71:       {...props}
```

```

72:     />
73:   </DropdownMenuPrimitive.Portal>
74: ))
75: DropdownMenuContent.displayName = DropdownMenuPrimitive.Content.displayName
76:
77: const DropdownMenuItem = React.forwardRef<
78:   React.ElementRef<typeof DropdownMenuPrimitive.Item>,
79:   React.ComponentPropsWithoutRef<typeof DropdownMenuPrimitive.Item> & {
80:     inset?: boolean
81:   }
82: >(({ className, inset, ...props }, ref) => (
83:   <DropdownMenuPrimitive.Item
84:     ref={ref}
85:     className={cn(
86:       "relative flex cursor-default select-none items-center gap-2 rounded-sm px-2 py-1.5 text-sm outline-n
87:       inset && "pl-8",
88:       className
89:     )}
90:     {...props}
91:   />
92: ))
93: DropdownMenuItem.displayName = DropdownMenuPrimitive.Item.displayName
94:
95: const DropdownMenuCheckboxItem = React.forwardRef<
96:   React.ElementRef<typeof DropdownMenuPrimitive.CheckboxItem>,
97:   React.ComponentPropsWithoutRef<typeof DropdownMenuPrimitive.CheckboxItem>
98: >(({ className, children, checked, ...props }, ref) => (
99:   <DropdownMenuPrimitive.CheckboxItem
100:     ref={ref}
101:     className={cn(
102:       "relative flex cursor-default select-none items-center rounded-sm py-1.5 pl-8 pr-2 text-sm outline-no
103:       className
104:     )}
105:     checked={checked}
106:     {...props}
107:   >
108:     <span className="absolute left-2 flex h-3.5 w-3.5 items-center justify-center">
109:       <DropdownMenuPrimitive.ItemIndicator>
110:         <Check className="h-4 w-4" />
111:       </DropdownMenuPrimitive.ItemIndicator>
112:     </span>
113:     {children}
114:   </DropdownMenuPrimitive.CheckboxItem>
115: ))
116: DropdownMenuCheckboxItem.displayName =
117:   DropdownMenuPrimitive.CheckboxItem.displayName
118:
119: const DropdownMenuRadioItem = React.forwardRef<
120:   React.ElementRef<typeof DropdownMenuPrimitive.RadioItem>,
121:   React.ComponentPropsWithoutRef<typeof DropdownMenuPrimitive.RadioItem>
122: >(({ className, children, ...props }, ref) => (
123:   <DropdownMenuPrimitive.RadioItem
124:     ref={ref}
125:     className={cn(
126:       "relative flex cursor-default select-none items-center rounded-sm py-1.5 pl-8 pr-2 text-sm outline-no
127:       className
128:     )}
129:     {...props}
130:   >
131:     <span className="absolute left-2 flex h-3.5 w-3.5 items-center justify-center">
132:       <DropdownMenuPrimitive.ItemIndicator>
133:         <Circle className="h-2 w-2 fill-current" />
134:       </DropdownMenuPrimitive.ItemIndicator>
135:     </span>
136:     {children}
137:   </DropdownMenuPrimitive.RadioItem>
138: ))
139: DropdownMenuRadioItem.displayName = DropdownMenuPrimitive.RadioItem.displayName
140:
141: const DropdownMenuLabel = React.forwardRef<
142:   React.ElementRef<typeof DropdownMenuPrimitive.Label>,
143:   React.ComponentPropsWithoutRef<typeof DropdownMenuPrimitive.Label> & {
144:     inset?: boolean

```

```

145:   }
146: >(({ className, inset, ...props }, ref) => (
147:   <DropdownMenuPrimitive.Label
148:     ref={ref}
149:     className={cn(
150:       "px-2 py-1.5 text-sm font-semibold",
151:       inset && "pl-8",
152:       className
153:     )}
154:     {...props}
155:   />
156: ))
157: DropdownMenuLabel.displayName = DropdownMenuPrimitive.Label.displayName
158:
159: const DropdownMenuSeparator = React.forwardRef<
160:   React.ElementRef<typeof DropdownMenuPrimitive.Separator>,
161:   React.ComponentPropsWithoutRef<typeof DropdownMenuPrimitive.Separator>
162: >(({ className, ...props }, ref) => (
163:   <DropdownMenuPrimitive.Separator
164:     ref={ref}
165:     className={cn("-mx-1 my-1 h-px bg-muted", className)}
166:     {...props}
167:   />
168: ))
169: DropdownMenuSeparator.displayName = DropdownMenuPrimitive.Separator.displayName
170:
171: const DropdownMenuShortcut = ({
172:   className,
173:   ...props
174: }: React.HTMLAttributes<HTMLSpanElement>) => {
175:   return (
176:     <span
177:       className={cn("ml-auto text-xs tracking-widest opacity-60", className)}
178:       {...props}
179:     />
180:   )
181: }
182: DropdownMenuShortcut.displayName = "DropdownMenuShortcut"
183:
184: export {
185:   DropdownMenu,
186:   DropdownMenuTrigger,
187:   DropdownMenuContent,
188:   DropdownMenuItem,
189:   DropdownMenuCheckboxItem,
190:   DropdownMenuRadioItem,
191:   DropdownMenuLabel,
192:   DropdownMenuSeparator,
193:   DropdownMenuShortcut,
194:   DropdownMenuGroup,
195:   DropdownMenuPortal,
196:   DropdownMenuSub,
197:   DropdownMenuSubContent,
198:   DropdownMenuSubTrigger,
199:   DropdownMenuRadioGroup,
200: }

```

File: components/ui/form.tsx

```

=====
1: "use client"
2:
3: import * as React from "react"
4: import * as LabelPrimitive from "@radix-ui/react-label"
5: import { Slot } from "@radix-ui/react-slot"
6: import {
7:   Controller,
8:   ControllerProps,
9:   FieldPath,
10:  FieldValues,
11:  FormProvider,
12:  useFormContext,

```

```

13: } from "react-hook-form"
14:
15: import { cn } from "@lib/utils"
16: import { Label } from "@components/ui/label"
17:
18: const Form = FormProvider
19:
20: type FormFieldContextValue<
21:   TFieldValues extends FieldValues = FieldValues,
22:   TName extends FieldPath<TFieldValues> = FieldPath<TFieldValues>
23: > = {
24:   name: TName
25: }
26:
27: const FormFieldContext = React.createContext<FormFieldContextValue>(
28:   {} as FormFieldContextValue
29: )
30:
31: const FormField = <
32:   TFieldValues extends FieldValues = FieldValues,
33:   TName extends FieldPath<TFieldValues> = FieldPath<TFieldValues>
34: >({
35:   ...props
36: }: ControllerProps<TFieldValues, TName>) => {
37:   return (
38:     <FormFieldContext.Provider value={{ name: props.name }}>
39:       <Controller {...props} />
40:     </FormFieldContext.Provider>
41:   )
42: }
43:
44: const useFormField = () => {
45:   const fieldContext = React.useContext(FormFieldContext)
46:   const itemContext = React.useContext(FormItemContext)
47:   const { getFieldState, formState } = useFormContext()
48:
49:   const fieldState = getFieldState(fieldContext.name, formState)
50:
51:   if (!fieldContext) {
52:     throw new Error("useFormField should be used within <FormField>")
53:   }
54:
55:   const { id } = itemContext
56:
57:   return {
58:     id,
59:     name: fieldContext.name,
60:     formItemId: `${id}-form-item`,
61:     formDescriptionId: `${id}-form-item-description`,
62:     formMessageId: `${id}-form-item-message`,
63:     ...fieldState,
64:   }
65: }
66:
67: type FormItemContextValue = {
68:   id: string
69: }
70:
71: const FormItemContext = React.createContext<FormItemContextValue>(
72:   {} as FormItemContextValue
73: )
74:
75: const FormItem = React.forwardRef<
76:   HTMLDivElement,
77:   React.HTMLAttributes<HTMLDivElement>
78: >(({ className, ...props }, ref) => {
79:   const id = React.useId()
80:
81:   return (
82:     <FormItemContext.Provider value={{ id }}>
83:       <div ref={ref} className={cn("space-y-2", className)} {...props} />
84:     </FormItemContext.Provider>
85:   )

```

```

86: })
87: FormItem.displayName = "FormItem"
88:
89: const FormLabel = React.forwardRef<
90:   React.ElementRef<typeof LabelPrimitive.Root>,
91:   React.ComponentPropsWithoutRef<typeof LabelPrimitive.Root>
92: >(({ className, ...props }, ref) => {
93:   const { error, formItemId } = useFormField()
94:
95:   return (
96:     <Label
97:       ref={ref}
98:       className={cn(error && "text-destructive", className)}
99:       htmlFor={formItemId}
100:      {...props}
101:    />
102:   )
103: })
104: FormLabel.displayName = "FormLabel"
105:
106: const FormControl = React.forwardRef<
107:   React.ElementRef<typeof Slot>,
108:   React.ComponentPropsWithoutRef<typeof Slot>
109: >(({ ...props }, ref) => {
110:   const { error, formItemId, formDescriptionId, formMessageId } = useFormField()
111:
112:   return (
113:     <Slot
114:       ref={ref}
115:       id={formItemId}
116:       aria-describedby={
117:         !error
118:           ? `${formDescriptionId}`
119:           : `${formDescriptionId} ${formMessageId}`
120:       }
121:       aria-invalid={!!error}
122:      {...props}
123:    />
124:   )
125: })
126: FormControl.displayName = "FormControl"
127:
128: const FormDescription = React.forwardRef<
129:   HTMLParagraphElement,
130:   React.HTMLAttributes<HTMLParagraphElement>
131: >(({ className, ...props }, ref) => {
132:   const { formDescriptionId } = useFormField()
133:
134:   return (
135:     <p
136:       ref={ref}
137:       id={formDescriptionId}
138:       className={cn("text-sm text-muted-foreground", className)}
139:      {...props}
140:    />
141:   )
142: })
143: FormDescription.displayName = "FormDescription"
144:
145: const FormMessage = React.forwardRef<
146:   HTMLParagraphElement,
147:   React.HTMLAttributes<HTMLParagraphElement>
148: >(({ className, children, ...props }, ref) => {
149:   const { error, formMessageId } = useFormField()
150:   const body = error ? String(error?.message) : children
151:
152:   if (!body) {
153:     return null
154:   }
155:
156:   return (
157:     <p
158:       ref={ref}

```

```

159:         id={formMessageId}
160:         className={cn("text-sm font-medium text-destructive", className)}
161:         {...props}
162:       >
163:         {body}
164:       </p>
165:     )
166:   })
167: FormMessage.displayName = "FormMessage"
168:
169: export {
170:   useFormField,
171:   Form,
172:   FormItem,
173:   FormLabel,
174:   FormControl,
175:   FormDescription,
176:   FormMessage,
177:   FormField,
178: }

```

■ File: components/ui/hover-card.tsx

```

1: "use client"
2:
3: import * as React from "react"
4: import * as HoverCardPrimitive from "@radix-ui/react-hover-card"
5:
6: import { cn } from "@/lib/utils"
7:
8: const HoverCard = HoverCardPrimitive.Root
9:
10: const HoverCardTrigger = HoverCardPrimitive.Trigger
11:
12: const HoverCardContent = React.forwardRef<
13:   React.ElementRef<typeof HoverCardPrimitive.Content>,
14:   React.ComponentPropsWithoutRef<typeof HoverCardPrimitive.Content>
15: >(({ className, align = "center", sideOffset = 4, ...props }, ref) => (
16:   <HoverCardPrimitive.Content
17:     ref={ref}
18:     align={align}
19:     sideOffset={sideOffset}
20:     className={cn(
21:       "z-50 w-64 rounded-md border bg-popover p-4 text-popover-foreground shadow-md outline-none data-[state=open]:animate-in data-[state=closed]:animate-out data-[state=closed]:fade-out-0 data-[state=open]:fade-in-0",
22:       className
23:     )}
24:     {...props}
25:   />
26: ))
27: HoverCardContent.displayName = HoverCardPrimitive.Content.displayName
28:
29: export { HoverCard, HoverCardTrigger, HoverCardContent }

```

■ File: components/ui/input-otp.tsx

```

1: "use client"
2:
3: import * as React from "react"
4: import { OTPInput, OTPInputContext } from "input-otp"
5: import { Dot } from "lucide-react"
6:
7: import { cn } from "@/lib/utils"
8:
9: const InputOTP = React.forwardRef<
10:   React.ElementRef<typeof OTPInput>,
11:   React.ComponentPropsWithoutRef<typeof OTPInput>
12: >(({ className, containerClassName, ...props }, ref) => (
13:   <OTPInput
14:     ref={ref}

```

```

15:     containerClassName={cn(
16:       "flex items-center gap-2 has-[:disabled]:opacity-50",
17:       containerClassName
18:     )}
19:     className={cn("disabled:cursor-not-allowed", className)}
20:     {...props}
21:   />
22: ))
23: InputOTP.displayName = "InputOTP"
24:
25: const InputOTPGroup = React.forwardRef<
26:   React.ElementRef<"div">,
27:   React.ComponentPropsWithoutRef<"div">
28: >(({ className, ...props }, ref) => (
29:   <div ref={ref} className={cn("flex items-center", className)} {...props} />
30: ))
31: InputOTPGroup.displayName = "InputOTPGroup"
32:
33: const InputOTPSlot = React.forwardRef<
34:   React.ElementRef<"div">,
35:   React.ComponentPropsWithoutRef<"div"> & { index: number }
36: >(({ index, className, ...props }, ref) => {
37:   const inputOTPContext = React.useContext(OTPInputContext)
38:   const { char, hasFakeCaret, isActive } = inputOTPContext.slots[index]
39:
40:   return (
41:     <div
42:       ref={ref}
43:       className={cn(
44:         "relative flex h-10 w-10 items-center justify-center border-y border-r border-input text-sm transition-colors",
45:         isActive && "z-10 ring-2 ring-ring ring-offset-background",
46:         className
47:       )}
48:       {...props}
49:     >
50:       {char}
51:       {hasFakeCaret && (
52:         <div className="pointer-events-none absolute inset-0 flex items-center justify-center">
53:           <div className="h-4 w-px animate-caret-blink bg-foreground duration-1000" />
54:         </div>
55:       )}
56:     </div>
57:   )
58: )}
59: InputOTPSlot.displayName = "InputOTPSlot"
60:
61: const InputOTPSeparator = React.forwardRef<
62:   React.ElementRef<"div">,
63:   React.ComponentPropsWithoutRef<"div">
64: >(({ ...props }, ref) => (
65:   <div ref={ref} role="separator" {...props}>
66:     <Dot />
67:   </div>
68: ))
69: InputOTPSeparator.displayName = "InputOTPSeparator"
70:
71: export { InputOTP, InputOTPGroup, InputOTPSlot, InputOTPSeparator }

```

■ File: components/ui/input.tsx

```

1: import * as React from "react"
2:
3: import { cn } from "@/lib/utils"
4:
5: const Input = React.forwardRef<HTMLInputElement, React.ComponentProps<"input">>(
6:   ({ className, type, ...props }, ref) => {
7:     return (
8:       <input
9:         type={type}
10:         className={cn(
11:           "flex h-10 w-full rounded-md border border-input bg-background px-3 py-2 text-base ring-offset-background"

```

```

12:         className
13:       )}
14:       ref={ref}
15:       {...props}
16:     />
17:   )
18: }
19: )
20: Input.displayName = "Input"
21:
22: export { Input }

```

■ File: components/ui/label.tsx

```

1: "use client"
2:
3: import * as React from "react"
4: import * as LabelPrimitive from "@radix-ui/react-label"
5: import { cva, type VariantProps } from "class-variance-authority"
6:
7: import { cn } from "@lib/utils"
8:
9: const labelVariants = cva(
10:   "text-sm font-medium leading-none peer-disabled:cursor-not-allowed peer-disabled:opacity-70"
11: )
12:
13: const Label = React.forwardRef<
14:   React.ElementRef<typeof LabelPrimitive.Root>,
15:   React.ComponentPropsWithoutRef<typeof LabelPrimitive.Root> &
16:     VariantProps<typeof labelVariants>
17: >(({ className, ...props }, ref) => (
18:   <LabelPrimitive.Root
19:     ref={ref}
20:     className={cn(labelVariants(), className)}
21:     {...props}
22:   />
23: ))
24: Label.displayName = LabelPrimitive.Root.displayName
25:
26: export { Label }

```

■ File: components/ui/menubar.tsx

```

1: "use client"
2:
3: import * as React from "react"
4: import * as MenubarPrimitive from "@radix-ui/react-menubar"
5: import { Check, ChevronRight, Circle } from "lucide-react"
6:
7: import { cn } from "@lib/utils"
8:
9: const MenubarMenu = MenubarPrimitive.Menu
10:
11: const MenubarGroup = MenubarPrimitive.Group
12:
13: const MenubarPortal = MenubarPrimitive.Portal
14:
15: const MenubarSub = MenubarPrimitive.Sub
16:
17: const MenubarRadioGroup = MenubarPrimitive.RadioGroup
18:
19: const Menubar = React.forwardRef<
20:   React.ElementRef<typeof MenubarPrimitive.Root>,
21:   React.ComponentPropsWithoutRef<typeof MenubarPrimitive.Root>
22: >(({ className, ...props }, ref) => (
23:   <MenubarPrimitive.Root
24:     ref={ref}
25:     className={cn(
26:       "flex h-10 items-center space-x-1 rounded-md border bg-background p-1",

```



```

27:     className
28:   }}
29:   {...props}
30: />
31: ))
32: Menubar.displayName = MenubarPrimitive.Root.displayName
33:
34: const MenubarTrigger = React.forwardRef<
35:   React.ElementRef<typeof MenubarPrimitive.Trigger>,
36:   React.ComponentPropsWithoutRef<typeof MenubarPrimitive.Trigger>
37: >(({ className, ...props }, ref) => (
38:   <MenubarPrimitive.Trigger
39:     ref={ref}
40:     className={cn(
41:       "flex cursor-default select-none items-center rounded-sm px-3 py-1.5 text-sm font-medium outline-none
42:       className
43:     )}
44:     {...props}
45:   />
46: ))
47: MenubarTrigger.displayName = MenubarPrimitive.Trigger.displayName
48:
49: const MenubarSubTrigger = React.forwardRef<
50:   React.ElementRef<typeof MenubarPrimitive.SubTrigger>,
51:   React.ComponentPropsWithoutRef<typeof MenubarPrimitive.SubTrigger> & {
52:     inset?: boolean
53:   }
54: >(({ className, inset, children, ...props }, ref) => (
55:   <MenubarPrimitive.SubTrigger
56:     ref={ref}
57:     className={cn(
58:       "flex cursor-default select-none items-center rounded-sm px-2 py-1.5 text-sm outline-none focus:bg-ac
59:       inset && "pl-8",
60:       className
61:     )}
62:     {...props}
63:   >
64:     {children}
65:     <ChevronRight className="ml-auto h-4 w-4" />
66:   </MenubarPrimitive.SubTrigger>
67: ))
68: MenubarSubTrigger.displayName = MenubarPrimitive.SubTrigger.displayName
69:
70: const MenubarSubContent = React.forwardRef<
71:   React.ElementRef<typeof MenubarPrimitive.SubContent>,
72:   React.ComponentPropsWithoutRef<typeof MenubarPrimitive.SubContent>
73: >(({ className, ...props }, ref) => (
74:   <MenubarPrimitive.SubContent
75:     ref={ref}
76:     className={cn(
77:       "z-50 min-w-[8rem] overflow-hidden rounded-md border bg-popover p-1 text-popover-foreground data-[sta
78:       className
79:     )}
80:     {...props}
81:   />
82: ))
83: MenubarSubContent.displayName = MenubarPrimitive.SubContent.displayName
84:
85: const MenubarContent = React.forwardRef<
86:   React.ElementRef<typeof MenubarPrimitive.Content>,
87:   React.ComponentPropsWithoutRef<typeof MenubarPrimitive.Content>
88: >(
89:   (
90:     { className, align = "start", alignOffset = -4, sideOffset = 8, ...props },
91:     ref
92:   ) => (
93:     <MenubarPrimitive.Portal>
94:       <MenubarPrimitive.Content
95:         ref={ref}
96:         align={align}
97:         alignOffset={alignOffset}
98:         sideOffset={sideOffset}
99:         className={cn(

```

```

100:         "z-50 min-w-[12rem] overflow-hidden rounded-md border bg-popover p-1 text-popover-foreground shadow
101:         className
102:     )}
103:     {...props}
104: />
105: </MenubarPrimitive.Portal>
106: )
107: )
108: MenubarContent.displayName = MenubarPrimitive.Content.displayName
109:
110: const MenubarItem = React.forwardRef<
111:   React.ElementRef<typeof MenubarPrimitive.Item>,
112:   React.ComponentPropsWithoutRef<typeof MenubarPrimitive.Item> & {
113:     inset?: boolean
114:   }
115: >(({ className, inset, ...props }, ref) => (
116:   <MenubarPrimitive.Item
117:     ref={ref}
118:     className={cn(
119:       "relative flex cursor-default select-none items-center rounded-sm px-2 py-1.5 text-sm outline-none fo
120:       inset && "pl-8",
121:       className
122:     )}
123:     {...props}
124:   />
125: ))
126: MenubarItem.displayName = MenubarPrimitive.Item.displayName
127:
128: const MenubarCheckboxItem = React.forwardRef<
129:   React.ElementRef<typeof MenubarPrimitive.CheckboxItem>,
130:   React.ComponentPropsWithoutRef<typeof MenubarPrimitive.CheckboxItem>
131: >(({ className, children, checked, ...props }, ref) => (
132:   <MenubarPrimitive.CheckboxItem
133:     ref={ref}
134:     className={cn(
135:       "relative flex cursor-default select-none items-center rounded-sm py-1.5 pl-8 pr-2 text-sm outline-no
136:       className
137:     )}
138:     checked={checked}
139:     {...props}
140:   >
141:     <span className="absolute left-2 flex h-3.5 w-3.5 items-center justify-center">
142:       <MenubarPrimitive.ItemIndicator>
143:         <Check className="h-4 w-4" />
144:       </MenubarPrimitive.ItemIndicator>
145:     </span>
146:     {children}
147:   </MenubarPrimitive.CheckboxItem>
148: ))
149: MenubarCheckboxItem.displayName = MenubarPrimitive.CheckboxItem.displayName
150:
151: const MenubarRadioItem = React.forwardRef<
152:   React.ElementRef<typeof MenubarPrimitive.RadioItem>,
153:   React.ComponentPropsWithoutRef<typeof MenubarPrimitive.RadioItem>
154: >(({ className, children, ...props }, ref) => (
155:   <MenubarPrimitive.RadioItem
156:     ref={ref}
157:     className={cn(
158:       "relative flex cursor-default select-none items-center rounded-sm py-1.5 pl-8 pr-2 text-sm outline-no
159:       className
160:     )}
161:     {...props}
162:   >
163:     <span className="absolute left-2 flex h-3.5 w-3.5 items-center justify-center">
164:       <MenubarPrimitive.ItemIndicator>
165:         <Circle className="h-2 w-2 fill-current" />
166:       </MenubarPrimitive.ItemIndicator>
167:     </span>
168:     {children}
169:   </MenubarPrimitive.RadioItem>
170: ))
171: MenubarRadioItem.displayName = MenubarPrimitive.RadioItem.displayName
172:

```

```

173: const MenubarLabel = React.forwardRef<
174:   React.ElementRef<typeof MenubarPrimitive.Label>,
175:   React.ComponentPropsWithoutRef<typeof MenubarPrimitive.Label> & {
176:     inset?: boolean
177:   }
178: >(({ className, inset, ...props }, ref) => (
179:   <MenubarPrimitive.Label
180:     ref={ref}
181:     className={cn(
182:       "px-2 py-1.5 text-sm font-semibold",
183:       inset && "pl-8",
184:       className
185:     )}
186:     {...props}
187:   />
188: ))
189: MenubarLabel.displayName = MenubarPrimitive.Label.displayName
190:
191: const MenubarSeparator = React.forwardRef<
192:   React.ElementRef<typeof MenubarPrimitive.Separator>,
193:   React.ComponentPropsWithoutRef<typeof MenubarPrimitive.Separator>
194: >(({ className, ...props }, ref) => (
195:   <MenubarPrimitive.Separator
196:     ref={ref}
197:     className={cn("-mx-1 my-1 h-px bg-muted", className)}
198:     {...props}
199:   />
200: ))
201: MenubarSeparator.displayName = MenubarPrimitive.Separator.displayName
202:
203: const MenubarShortcut = ({
204:   className,
205:   ...props
206: }: React.HTMLAttributes<HTMLSpanElement>) => {
207:   return (
208:     <span
209:       className={cn(
210:         "ml-auto text-xs tracking-widest text-muted-foreground",
211:         className
212:       )}
213:       {...props}
214:     />
215:   )
216: }
217: MenubarShortcut.displayName = "MenubarShortcut"
218:
219: export {
220:   Menubar,
221:   MenubarMenu,
222:   MenubarTrigger,
223:   MenubarContent,
224:   MenubarItem,
225:   MenubarSeparator,
226:   MenubarLabel,
227:   MenubarCheckboxItem,
228:   MenubarRadioGroup,
229:   MenubarRadioItem,
230:   MenubarPortal,
231:   MenubarSubContent,
232:   MenubarSubTrigger,
233:   MenubarGroup,
234:   MenubarSub,
235:   MenubarShortcut,
236: }

```

■ File: components/ui/navigation-menu.tsx

```

=====
1: import * as React from "react"
2: import * as NavigationMenuPrimitive from "@radix-ui/react-navigation-menu"
3: import { cva } from "class-variance-authority"
4: import { ChevronDown } from "lucide-react"

```

```

5:
6: import { cn } from "@/lib/utils"
7:
8: const NavigationMenu = React.forwardRef<
9:   React.ElementRef<typeof NavigationMenuPrimitive.Root>,
10:   React.ComponentPropsWithoutRef<typeof NavigationMenuPrimitive.Root>
11: >(({ className, children, ...props }, ref) => (
12:   <NavigationMenuPrimitive.Root
13:     ref={ref}
14:     className={cn(
15:       "relative z-10 flex max-w-max flex-1 items-center justify-center",
16:       className
17:     )}
18:     {...props}
19:   >
20:     {children}
21:     <NavigationMenuViewport />
22:   </NavigationMenuPrimitive.Root>
23: ))
24: NavigationMenu.displayName = NavigationMenuPrimitive.Root.displayName
25:
26: const NavigationMenuList = React.forwardRef<
27:   React.ElementRef<typeof NavigationMenuPrimitive.List>,
28:   React.ComponentPropsWithoutRef<typeof NavigationMenuPrimitive.List>
29: >(({ className, ...props }, ref) => (
30:   <NavigationMenuPrimitive.List
31:     ref={ref}
32:     className={cn(
33:       "group flex flex-1 list-none items-center justify-center space-x-1",
34:       className
35:     )}
36:     {...props}
37:   />
38: ))
39: NavigationMenuList.displayName = NavigationMenuPrimitive.List.displayName
40:
41: const NavigationMenuItem = NavigationMenuPrimitive.Item
42:
43: const navigationMenuTriggerStyle = cva(
44:   "group inline-flex h-10 w-max items-center justify-center rounded-md bg-background px-4 py-2 text-sm font
45: )
46:
47: const NavigationMenuTrigger = React.forwardRef<
48:   React.ElementRef<typeof NavigationMenuPrimitive.Trigger>,
49:   React.ComponentPropsWithoutRef<typeof NavigationMenuPrimitive.Trigger>
50: >(({ className, children, ...props }, ref) => (
51:   <NavigationMenuPrimitive.Trigger
52:     ref={ref}
53:     className={cn(navigationMenuTriggerStyle(), "group", className)}
54:     {...props}
55:   >
56:     {children}{" "}
57:     <ChevronDown
58:       className="relative top-[1px] ml-1 h-3 w-3 transition duration-200 group-data-[state=open]:rotate-180
59:       aria-hidden="true"
60:     />
61:   </NavigationMenuPrimitive.Trigger>
62: ))
63: NavigationMenuTrigger.displayName = NavigationMenuPrimitive.Trigger.displayName
64:
65: const NavigationMenuContent = React.forwardRef<
66:   React.ElementRef<typeof NavigationMenuPrimitive.Content>,
67:   React.ComponentPropsWithoutRef<typeof NavigationMenuPrimitive.Content>
68: >(({ className, ...props }, ref) => (
69:   <NavigationMenuPrimitive.Content
70:     ref={ref}
71:     className={cn(
72:       "left-0 top-0 w-full data-[motion^=from-]:animate-in data-[motion^=to-]:animate-out data-[motion^=from-]
73:       className
74:     )}
75:     {...props}
76:   />
77: ))

```

```

78: NavigationMenuContent.displayName = NavigationMenuPrimitive.Content.displayName
79:
80: const NavigationMenuLink = NavigationMenuPrimitive.Link
81:
82: const NavigationMenuViewport = React.forwardRef<
83:   React.ElementRef<typeof NavigationMenuPrimitive.Viewport>,
84:   React.ComponentPropsWithoutRef<typeof NavigationMenuPrimitive.Viewport>
85: >(({ className, ...props }, ref) => (
86:   <div className={cn("absolute left-0 top-full flex justify-center")}>
87:     <NavigationMenuPrimitive.Viewport
88:       className={cn(
89:         "origin-top-center relative mt-1.5 h-[var(--radix-navigation-menu-viewport-height)] w-full overflow
90:         className
91:       )}
92:       ref={ref}
93:       {...props}
94:     />
95:   </div>
96: ))
97: NavigationMenuViewport.displayName =
98:   NavigationMenuPrimitive.Viewport.displayName
99:
100: const NavigationMenuIndicator = React.forwardRef<
101:   React.ElementRef<typeof NavigationMenuPrimitive.Indicator>,
102:   React.ComponentPropsWithoutRef<typeof NavigationMenuPrimitive.Indicator>
103: >(({ className, ...props }, ref) => (
104:   <NavigationMenuPrimitive.Indicator
105:     ref={ref}
106:     className={cn(
107:       "top-full z-[1] flex h-1.5 items-end justify-center overflow-hidden data-[state=visible]:animate-in d
108:       className
109:     )}
110:     {...props}
111:   >
112:     <div className="relative top-[60%] h-2 w-2 rotate-45 rounded-tl-sm bg-border shadow-md" />
113:   </NavigationMenuPrimitive.Indicator>
114: ))
115: NavigationMenuIndicator.displayName =
116:   NavigationMenuPrimitive.Indicator.displayName
117:
118: export {
119:   navigationMenuTriggerStyle,
120:   NavigationMenu,
121:   NavigationMenuList,
122:   NavigationMenuItem,
123:   NavigationMenuContent,
124:   NavigationMenuTrigger,
125:   NavigationMenuLink,
126:   NavigationMenuIndicator,
127:   NavigationMenuViewport,
128: }

```

File: components/ui/pagination.tsx

```

1: import * as React from "react"
2: import { ChevronLeft, ChevronRight, MoreHorizontal } from "lucide-react"
3:
4: import { cn } from "@/lib/utils"
5: import { ButtonProps, buttonVariants } from "@/components/ui/button"
6:
7: const Pagination = ({ className, ...props }: React.ComponentProps<"nav">) => (
8:   <nav
9:     role="navigation"
10:    aria-label="pagination"
11:    className={cn("mx-auto flex w-full justify-center", className)}
12:    {...props}
13:  />
14: )
15: Pagination.displayName = "Pagination"
16:
17: const PaginationContent = React.forwardRef<

```

```

18:   HTMLUListElement,
19:   React.ComponentProps<"ul">
20: >(({ className, ...props }, ref) => (
21:   <ul
22:     ref={ref}
23:     className={cn("flex flex-row items-center gap-1", className)}
24:     {...props}
25:   />
26: ))
27: PaginationContent.displayName = "PaginationContent"
28:
29: const PaginationItem = React.forwardRef<
30:   HTMLLIElement,
31:   React.ComponentProps<"li">
32: >(({ className, ...props }, ref) => (
33:   <li ref={ref} className={cn("", className)} {...props} />
34: ))
35: PaginationItem.displayName = "PaginationItem"
36:
37: type PaginationLinkProps = {
38:   isActive?: boolean
39: } & Pick<ButtonProps, "size"> &
40:   React.ComponentProps<"a">
41:
42: const PaginationLink = ({
43:   className,
44:   isActive,
45:   size = "icon",
46:   ...props
47: }: PaginationLinkProps) => (
48:   <a
49:     aria-current={isActive ? "page" : undefined}
50:     className={cn(
51:       buttonVariants({
52:         variant: isActive ? "outline" : "ghost",
53:         size,
54:       }),
55:       className
56:     )}
57:     {...props}
58:   />
59: )
60: PaginationLink.displayName = "PaginationLink"
61:
62: const PaginationPrevious = ({
63:   className,
64:   ...props
65: }: React.ComponentProps<typeof PaginationLink>) => (
66:   <PaginationLink
67:     aria-label="Go to previous page"
68:     size="default"
69:     className={cn("gap-1 pl-2.5", className)}
70:     {...props}
71:   >
72:     <ChevronLeft className="h-4 w-4" />
73:     <span>Previous</span>
74:   </PaginationLink>
75: )
76: PaginationPrevious.displayName = "PaginationPrevious"
77:
78: const PaginationNext = ({
79:   className,
80:   ...props
81: }: React.ComponentProps<typeof PaginationLink>) => (
82:   <PaginationLink
83:     aria-label="Go to next page"
84:     size="default"
85:     className={cn("gap-1 pr-2.5", className)}
86:     {...props}
87:   >
88:     <span>Next</span>
89:     <ChevronRight className="h-4 w-4" />
90:   </PaginationLink>

```

```

91: )
92: PaginationNext.displayName = "PaginationNext"
93:
94: const PaginationEllipsis = ({
95:   className,
96:   ...props
97: }: React.ComponentProps<"span">) => (
98:   <span
99:     aria-hidden
100:     className={cn("flex h-9 w-9 items-center justify-center", className)}
101:     {...props}
102:   >
103:     <MoreHorizontal className="h-4 w-4" />
104:     <span className="sr-only">More pages</span>
105:   </span>
106: )
107: PaginationEllipsis.displayName = "PaginationEllipsis"
108:
109: export {
110:   Pagination,
111:   PaginationContent,
112:   PaginationEllipsis,
113:   PaginationItem,
114:   PaginationLink,
115:   PaginationNext,
116:   PaginationPrevious,
117: }

```

■ File: components/ui/popover.tsx

```

1: "use client"
2:
3: import * as React from "react"
4: import * as PopoverPrimitive from "@radix-ui/react-popover"
5:
6: import { cn } from "@/lib/utils"
7:
8: const Popover = PopoverPrimitive.Root
9:
10: const PopoverTrigger = PopoverPrimitive.Trigger
11:
12: const PopoverContent = React.forwardRef<
13:   React.ElementRef<typeof PopoverPrimitive.Content>,
14:   React.ComponentPropsWithoutRef<typeof PopoverPrimitive.Content>
15: >(({ className, align = "center", sideOffset = 4, ...props }, ref) => (
16:   <PopoverPrimitive.Portal>
17:     <PopoverPrimitive.Content
18:       ref={ref}
19:       align={align}
20:       sideOffset={sideOffset}
21:       className={cn(
22:         "z-50 w-72 rounded-md border bg-popover p-4 text-popover-foreground shadow-md outline-none data-[state=open]:animate-in data-[state=closed]:animate-out data-[state=closed]:fade-out-0 data-[state=open]:fade-in-0",
23:         className
24:       )}
25:       {...props}
26:     />
27:   </PopoverPrimitive.Portal>
28: ))
29: PopoverContent.displayName = PopoverPrimitive.Content.displayName
30:
31: export { Popover, PopoverTrigger, PopoverContent }

```

■ File: components/ui/progress.tsx

```

1: "use client"
2:
3: import * as React from "react"
4: import * as ProgressPrimitive from "@radix-ui/react-progress"
5:

```

```

6: import { cn } from "@/lib/utils"
7:
8: const Progress = React.forwardRef<
9:   React.ElementRef<typeof ProgressPrimitive.Root>,
10:   React.ComponentPropsWithoutRef<typeof ProgressPrimitive.Root>
11: >(({ className, value, ...props }, ref) => (
12:   <ProgressPrimitive.Root
13:     ref={ref}
14:     className={cn(
15:       "relative h-4 w-full overflow-hidden rounded-full bg-secondary",
16:       className
17:     )}
18:     {...props}
19:   >
20:     <ProgressPrimitive.Indicator
21:       className="h-full w-full flex-1 bg-primary transition-all"
22:       style={{ transform: `translateX(-${100 - (value || 0)}%)` }}
23:     />
24:   </ProgressPrimitive.Root>
25: ))
26: Progress.displayName = ProgressPrimitive.Root.displayName
27:
28: export { Progress }

```

■ File: components/ui/radio-group.tsx

```

1: "use client"
2:
3: import * as React from "react"
4: import * as RadioGroupPrimitive from "@radix-ui/react-radio-group"
5: import { Circle } from "lucide-react"
6:
7: import { cn } from "@/lib/utils"
8:
9: const RadioGroup = React.forwardRef<
10:   React.ElementRef<typeof RadioGroupPrimitive.Root>,
11:   React.ComponentPropsWithoutRef<typeof RadioGroupPrimitive.Root>
12: >(({ className, ...props }, ref) => {
13:   return (
14:     <RadioGroupPrimitive.Root
15:       className={cn("grid gap-2", className)}
16:       {...props}
17:       ref={ref}
18:     />
19:   )
20: })
21: RadioGroup.displayName = RadioGroupPrimitive.Root.displayName
22:
23: const RadioGroupItem = React.forwardRef<
24:   React.ElementRef<typeof RadioGroupPrimitive.Item>,
25:   React.ComponentPropsWithoutRef<typeof RadioGroupPrimitive.Item>
26: >(({ className, ...props }, ref) => {
27:   return (
28:     <RadioGroupPrimitive.Item
29:       ref={ref}
30:       className={cn(
31:         "aspect-square h-4 w-4 rounded-full border border-primary text-primary ring-offset-background focus
32:         className
33:       )}
34:       {...props}
35:     >
36:       <RadioGroupPrimitive.Indicator className="flex items-center justify-center">
37:         <Circle className="h-2.5 w-2.5 fill-current text-current" />
38:       </RadioGroupPrimitive.Indicator>
39:     </RadioGroupPrimitive.Item>
40:   )
41: })
42: RadioGroupItem.displayName = RadioGroupPrimitive.Item.displayName
43:
44: export { RadioGroup, RadioGroupItem }

```


■ File: components\ui\resizable.tsx

```
=====
1: "use client"
2:
3: import { GripVertical } from "lucide-react"
4: import * as ResizablePrimitive from "react-resizable-panels"
5:
6: import { cn } from "@/lib/utils"
7:
8: const ResizablePanelGroup = ({
9:   className,
10:  ...props
11: }: React.ComponentProps<typeof ResizablePrimitive.PanelGroup>) => (
12:   <ResizablePrimitive.PanelGroup
13:     className={cn(
14:       "flex h-full w-full data-[panel-group-direction=vertical]:flex-col",
15:       className
16:     )}
17:     {...props}
18:   />
19: )
20:
21: const ResizablePanel = ResizablePrimitive.Panel
22:
23: const ResizableHandle = ({
24:   withHandle,
25:   className,
26:   ...props
27: }: React.ComponentProps<typeof ResizablePrimitive.PanelResizeHandle> & {
28:   withHandle?: boolean
29: }) => (
30:   <ResizablePrimitive.PanelResizeHandle
31:     className={cn(
32:       "relative flex w-px items-center justify-center bg-border after:absolute after:inset-y-0 after:left-1",
33:       className
34:     )}
35:     {...props}
36:   >
37:     {withHandle && (
38:       <div className="z-10 flex h-4 w-3 items-center justify-center rounded-sm border bg-border">
39:         <GripVertical className="h-2.5 w-2.5" />
40:       </div>
41:     )}
42:   </ResizablePrimitive.PanelResizeHandle>
43: )
44:
45: export { ResizablePanelGroup, ResizablePanel, ResizableHandle }
-----
```

■ File: components\ui\scroll-area.tsx

```
=====
1: "use client"
2:
3: import * as React from "react"
4: import * as ScrollAreaPrimitive from "@radix-ui/react-scroll-area"
5:
6: import { cn } from "@/lib/utils"
7:
8: const ScrollArea = React.forwardRef<
9:   React.ElementRef<typeof ScrollAreaPrimitive.Root>,
10:   React.ComponentPropsWithoutRef<typeof ScrollAreaPrimitive.Root>
11: >(({ className, children, ...props }, ref) => (
12:   <ScrollAreaPrimitive.Root
13:     ref={ref}
14:     className={cn("relative overflow-hidden", className)}
15:     {...props}
16:   >
17:     <ScrollAreaPrimitive.Viewport className="h-full w-full rounded-[inherit]">
18:       {children}
19:     </ScrollAreaPrimitive.Viewport>
20:     <ScrollBar />
21:     <ScrollAreaPrimitive.Corner />

```

```

22:   </ScrollAreaPrimitive.Root>
23: ))
24: ScrollArea.displayName = ScrollAreaPrimitive.Root.displayName
25:
26: const ScrollBar = React.forwardRef<
27:   React.ElementRef<typeof ScrollAreaPrimitive.ScrollAreaScrollbar>,
28:   React.ComponentPropsWithoutRef<typeof ScrollAreaPrimitive.ScrollAreaScrollbar>
29: >(({ className, orientation = "vertical", ...props }, ref) => (
30:   <ScrollAreaPrimitive.ScrollAreaScrollbar
31:     ref={ref}
32:     orientation={orientation}
33:     className={cn(
34:       "flex touch-none select-none transition-colors",
35:       orientation === "vertical" &&
36:         "h-full w-2.5 border-l border-l-transparent p-[1px]",
37:       orientation === "horizontal" &&
38:         "h-2.5 flex-col border-t border-t-transparent p-[1px]",
39:       className
40:     )}
41:     {...props}
42:   >
43:     <ScrollAreaPrimitive.ScrollAreaThumb className="relative flex-1 rounded-full bg-border" />
44:   </ScrollAreaPrimitive.ScrollAreaScrollbar>
45: ))
46: ScrollBar.displayName = ScrollAreaPrimitive.ScrollAreaScrollbar.displayName
47:
48: export { ScrollArea, ScrollBar }

```

■ File: components/ui/select.tsx

```

1: "use client"
2:
3: import * as React from "react"
4: import * as SelectPrimitive from "@radix-ui/react-select"
5: import { Check, ChevronDown, ChevronUp } from "lucide-react"
6:
7: import { cn } from "@lib/Utils"
8:
9: const Select = SelectPrimitive.Root
10:
11: const SelectGroup = SelectPrimitive.Group
12:
13: const SelectValue = SelectPrimitive.Value
14:
15: const SelectTrigger = React.forwardRef<
16:   React.ElementRef<typeof SelectPrimitive.Trigger>,
17:   React.ComponentPropsWithoutRef<typeof SelectPrimitive.Trigger>
18: >(({ className, children, ...props }, ref) => (
19:   <SelectPrimitive.Trigger
20:     ref={ref}
21:     className={cn(
22:       "flex h-10 w-full items-center justify-between rounded-md border border-input bg-background px-3 py-2",
23:       className
24:     )}
25:     {...props}
26:   >
27:     {children}
28:     <SelectPrimitive.Icon asChild>
29:       <ChevronDown className="h-4 w-4 opacity-50" />
30:     </SelectPrimitive.Icon>
31:   </SelectPrimitive.Trigger>
32: ))
33: SelectTrigger.displayName = SelectPrimitive.Trigger.displayName
34:
35: const SelectScrollUpButton = React.forwardRef<
36:   React.ElementRef<typeof SelectPrimitive.ScrollUpButton>,
37:   React.ComponentPropsWithoutRef<typeof SelectPrimitive.ScrollUpButton>
38: >(({ className, ...props }, ref) => (
39:   <SelectPrimitive.ScrollUpButton
40:     ref={ref}
41:     className={cn(

```

```

42:     "flex cursor-default items-center justify-center py-1",
43:     className
44:   )}
45:   {...props}
46: >
47:   <ChevronUp className="h-4 w-4" />
48: </SelectPrimitive.ScrollUpButton>
49: ))
50: SelectScrollUpButton.displayName = SelectPrimitive.ScrollUpButton.displayName
51:
52: const SelectScrollDownButton = React.forwardRef<
53:   React.ElementRef<typeof SelectPrimitive.ScrollDownButton>,
54:   React.ComponentPropsWithoutRef<typeof SelectPrimitive.ScrollDownButton>
55: >(({ className, ...props }, ref) => (
56:   <SelectPrimitive.ScrollDownButton
57:     ref={ref}
58:     className={cn(
59:       "flex cursor-default items-center justify-center py-1",
60:       className
61:     )}
62:     {...props}
63:   >
64:     <ChevronDown className="h-4 w-4" />
65:   </SelectPrimitive.ScrollDownButton>
66: ))
67: SelectScrollDownButton.displayName =
68:   SelectPrimitive.ScrollDownButton.displayName
69:
70: const SelectContent = React.forwardRef<
71:   React.ElementRef<typeof SelectPrimitive.Content>,
72:   React.ComponentPropsWithoutRef<typeof SelectPrimitive.Content>
73: >(({ className, children, position = "popper", ...props }, ref) => (
74:   <SelectPrimitive.Portal>
75:     <SelectPrimitive.Content
76:       ref={ref}
77:       className={cn(
78:         "relative z-50 max-h-96 min-w-[8rem] overflow-hidden rounded-md border bg-popover text-popover-foreground",
79:         position === "popper" &&
80:         "data-[side=bottom]:translate-y-1 data-[side=left]:-translate-x-1 data-[side=right]:translate-x-1",
81:         className
82:       )}
83:       position={position}
84:       {...props}
85:     >
86:       <SelectScrollUpButton />
87:       <SelectPrimitive.Viewport
88:         className={cn(
89:           "p-1",
90:           position === "popper" &&
91:           "h-[var(--radix-select-trigger-height)] w-full min-w-[var(--radix-select-trigger-width)]"
92:         )}
93:       >
94:         {children}
95:       </SelectPrimitive.Viewport>
96:       <SelectScrollDownButton />
97:     </SelectPrimitive.Content>
98:   </SelectPrimitive.Portal>
99: ))
100: SelectContent.displayName = SelectPrimitive.Content.displayName
101:
102: const SelectLabel = React.forwardRef<
103:   React.ElementRef<typeof SelectPrimitive.Label>,
104:   React.ComponentPropsWithoutRef<typeof SelectPrimitive.Label>
105: >(({ className, ...props }, ref) => (
106:   <SelectPrimitive.Label
107:     ref={ref}
108:     className={cn("py-1.5 pl-8 pr-2 text-sm font-semibold", className)}
109:     {...props}
110:   />
111: ))
112: SelectLabel.displayName = SelectPrimitive.Label.displayName
113:
114: const SelectItem = React.forwardRef<

```

```

115:   React.ElementRef<typeof SelectPrimitive.Item>,
116:   React.ComponentPropsWithoutRef<typeof SelectPrimitive.Item>
117: >(({ className, children, ...props }, ref) => (
118:   <SelectPrimitive.Item
119:     ref={ref}
120:     className={cn(
121:       "relative flex w-full cursor-default select-none items-center rounded-sm py-1.5 pl-8 pr-2 text-sm out
122:       className
123:     )}
124:     {...props}
125:   >
126:     <span className="absolute left-2 flex h-3.5 w-3.5 items-center justify-center">
127:       <SelectPrimitive.ItemIndicator>
128:         <Check className="h-4 w-4" />
129:       </SelectPrimitive.ItemIndicator>
130:     </span>
131:
132:     <SelectPrimitive.ItemText>{children}</SelectPrimitive.ItemText>
133:   </SelectPrimitive.Item>
134: ))
135: SelectItem.displayName = SelectPrimitive.Item.displayName
136:
137: const SelectSeparator = React.forwardRef<
138:   React.ElementRef<typeof SelectPrimitive.Separator>,
139:   React.ComponentPropsWithoutRef<typeof SelectPrimitive.Separator>
140: >(({ className, ...props }, ref) => (
141:   <SelectPrimitive.Separator
142:     ref={ref}
143:     className={cn("-mx-1 my-1 h-px bg-muted", className)}
144:     {...props}
145:   />
146: ))
147: SelectSeparator.displayName = SelectPrimitive.Separator.displayName
148:
149: export {
150:   Select,
151:   SelectGroup,
152:   SelectValue,
153:   SelectTrigger,
154:   SelectContent,
155:   SelectLabel,
156:   SelectItem,
157:   SelectSeparator,
158:   SelectScrollUpButton,
159:   SelectScrollDownButton,
160: }

```

■ File: components/ui/separator.tsx

```

=====
1: "use client"
2:
3: import * as React from "react"
4: import * as SeparatorPrimitive from "@radix-ui/react-separator"
5:
6: import { cn } from "@lib/Utils"
7:
8: const Separator = React.forwardRef<
9:   React.ElementRef<typeof SeparatorPrimitive.Root>,
10:   React.ComponentPropsWithoutRef<typeof SeparatorPrimitive.Root>
11: > (
12:   (
13:     { className, orientation = "horizontal", decorative = true, ...props },
14:     ref
15:   ) => (
16:     <SeparatorPrimitive.Root
17:       ref={ref}
18:       decorative={decorative}
19:       orientation={orientation}
20:       className={cn(
21:         "shrink-0 bg-border",
22:         orientation === "horizontal" ? "h-[1px] w-full" : "h-full w-[1px]",

```

```

23:         className
24:       )}
25:     {...props}
26:   />
27: )
28: )
29: Separator.displayName = SeparatorPrimitive.Root.displayName
30:
31: export { Separator }

```

■ File: components/ui/sheet.tsx

```

=====
1: "use client"
2:
3: import * as React from "react"
4: import * as SheetPrimitive from "@radix-ui/react-dialog"
5: import { cva, type VariantProps } from "class-variance-authority"
6: import { X } from "lucide-react"
7:
8: import { cn } from "@lib/utils"
9:
10: const Sheet = SheetPrimitive.Root
11:
12: const SheetTrigger = SheetPrimitive.Trigger
13:
14: const SheetClose = SheetPrimitive.Close
15:
16: const SheetPortal = SheetPrimitive.Portal
17:
18: const SheetOverlay = React.forwardRef<
19:   React.ElementRef<typeof SheetPrimitive.Overlay>,
20:   React.ComponentPropsWithoutRef<typeof SheetPrimitive.Overlay>
21: >(({ className, ...props }, ref) => (
22:   <SheetPrimitive.Overlay
23:     className={cn(
24:       "fixed inset-0 z-50 bg-black/80 data-[state=open]:animate-in data-[state=closed]:animate-out data-[state=closed]:fade-out-0 data-[state=open]:fade-in-0",
25:       className
26:     )}
27:     {...props}
28:     ref={ref}
29:   />
30: ))
31: SheetOverlay.displayName = SheetPrimitive.Overlay.displayName
32:
33: const sheetVariants = cva(
34:   "fixed z-50 gap-4 bg-background p-6 shadow-lg transition ease-in-out data-[state=open]:animate-in data-[state=closed]:animate-out",
35:   {
36:     variants: {
37:       side: {
38:         top: "inset-x-0 top-0 border-b data-[state=closed]:slide-out-to-top data-[state=open]:slide-in-from-top",
39:         bottom:
40:           "inset-x-0 bottom-0 border-t data-[state=closed]:slide-out-to-bottom data-[state=open]:slide-in-from-bottom",
41:         left: "inset-y-0 left-0 h-full w-3/4 border-r data-[state=closed]:slide-out-to-left data-[state=open]:slide-in-from-left",
42:         right:
43:           "inset-y-0 right-0 h-full w-3/4 border-l data-[state=closed]:slide-out-to-right data-[state=open]:slide-in-from-right",
44:       },
45:     },
46:     defaultVariants: {
47:       side: "right",
48:     },
49:   }
50: )
51:
52: interface SheetContentProps
53:   extends React.ComponentPropsWithoutRef<typeof SheetPrimitive.Content>,
54:     VariantProps<typeof sheetVariants> {}
55:
56: const SheetContent = React.forwardRef<
57:   React.ElementRef<typeof SheetPrimitive.Content>,
58:   SheetContentProps
59: >(({ side = "right", className, children, ...props }, ref) => (

```

```

60:   <SheetPortal>
61:     <SheetOverlay />
62:     <SheetPrimitive.Content
63:       ref={ref}
64:       className={cn(sheetVariants({ side }), className)}
65:       {...props}
66:     >
67:       {children}
68:       <SheetPrimitive.Close className="absolute right-4 top-4 rounded-sm opacity-70 ring-offset-background
69:         <X className="h-4 w-4" />
70:         <span className="sr-only">Close</span>
71:       </SheetPrimitive.Close>
72:     </SheetPrimitive.Content>
73:   </SheetPortal>
74: ))
75: SheetContent.displayName = SheetPrimitive.Content.displayName
76:
77: const SheetHeader = ({
78:   className,
79:   ...props
80: }: React.HTMLAttributes<HTMLDivElement>) => (
81:   <div
82:     className={cn(
83:       "flex flex-col space-y-2 text-center sm:text-left",
84:       className
85:     )}
86:     {...props}
87:   />
88: )
89: SheetHeader.displayName = "SheetHeader"
90:
91: const SheetFooter = ({
92:   className,
93:   ...props
94: }: React.HTMLAttributes<HTMLDivElement>) => (
95:   <div
96:     className={cn(
97:       "flex flex-col-reverse sm:flex-row sm:justify-end sm:space-x-2",
98:       className
99:     )}
100:     {...props}
101:   />
102: )
103: SheetFooter.displayName = "SheetFooter"
104:
105: const SheetTitle = React.forwardRef<
106:   React.ElementRef<typeof SheetPrimitive.Title>,
107:   React.ComponentPropsWithoutRef<typeof SheetPrimitive.Title>
108: >(({ className, ...props }, ref) => (
109:   <SheetPrimitive.Title
110:     ref={ref}
111:     className={cn("text-lg font-semibold text-foreground", className)}
112:     {...props}
113:   />
114: ))
115: SheetTitle.displayName = SheetPrimitive.Title.displayName
116:
117: const SheetDescription = React.forwardRef<
118:   React.ElementRef<typeof SheetPrimitive.Description>,
119:   React.ComponentPropsWithoutRef<typeof SheetPrimitive.Description>
120: >(({ className, ...props }, ref) => (
121:   <SheetPrimitive.Description
122:     ref={ref}
123:     className={cn("text-sm text-muted-foreground", className)}
124:     {...props}
125:   />
126: ))
127: SheetDescription.displayName = SheetPrimitive.Description.displayName
128:
129: export {
130:   Sheet,
131:   SheetPortal,
132:   SheetOverlay,

```

```

133:   SheetTrigger,
134:   SheetClose,
135:   SheetContent,
136:   SheetHeader,
137:   SheetFooter,
138:   SheetTitle,
139:   SheetDescription,
140: }

```

■ File: components/ui/sidebar.tsx

```

=====
1: "use client"
2:
3: import * as React from "react"
4: import { Slot } from "@radix-ui/react-slot"
5: import { VariantProps, cva } from "class-variance-authority"
6: import { PanelLeft } from "lucide-react"
7:
8: import { useIsMobile } from "@hooks/use-mobile"
9: import { cn } from "@lib/utils"
10: import { Button } from "@components/ui/button"
11: import { Input } from "@components/ui/input"
12: import { Separator } from "@components/ui/separator"
13: import { Sheet, SheetContent } from "@components/ui/sheet"
14: import { Skeleton } from "@components/ui/skeleton"
15: import {
16:   Tooltip,
17:   TooltipContent,
18:   TooltipProvider,
19:   TooltipTrigger,
20: } from "@components/ui/tooltip"
21:
22: const SIDEBAR_COOKIE_NAME = "sidebar:state"
23: const SIDEBAR_COOKIE_MAX_AGE = 60 * 60 * 24 * 7
24: const SIDEBAR_WIDTH = "16rem"
25: const SIDEBAR_WIDTH_MOBILE = "18rem"
26: const SIDEBAR_WIDTH_ICON = "3rem"
27: const SIDEBAR_KEYBOARD_SHORTCUT = "b"
28:
29: type SidebarContext = {
30:   state: "expanded" | "collapsed"
31:   open: boolean
32:   setOpen: (open: boolean) => void
33:   openMobile: boolean
34:   setOpenMobile: (open: boolean) => void
35:   isMobile: boolean
36:   toggleSidebar: () => void
37: }
38:
39: const SidebarContext = React.createContext<SidebarContext | null>(null)
40:
41: function useSidebar() {
42:   const context = React.useContext(SidebarContext)
43:   if (!context) {
44:     throw new Error("useSidebar must be used within a SidebarProvider.")
45:   }
46:
47:   return context
48: }
49:
50: const SidebarProvider = React.forwardRef<
51:   HTMLDivElement,
52:   React.ComponentProps<"div"> & {
53:     defaultOpen?: boolean
54:     open?: boolean
55:     onOpenChange?: (open: boolean) => void
56:   }
57: >({
58:   (
59:     {
60:       defaultOpen = true,

```

```

61:     open: openProp,
62:     onChange: setOpenProp,
63:     className,
64:     style,
65:     children,
66:     ...props
67:   },
68:   ref
69: ) => {
70:   const isMobile = useIsMobile()
71:   const [openMobile, setOpenMobile] = React.useState(false)
72:
73:   // This is the internal state of the sidebar.
74:   // We use openProp and setOpenProp for control from outside the component.
75:   const [_open, _setOpen] = React.useState(defaultOpen)
76:   const open = openProp ?? _open
77:   const setOpen = React.useCallback(
78:     (value: boolean | ((value: boolean) => boolean)) => {
79:       const openState = typeof value === "function" ? value(open) : value
80:       if (setOpenProp) {
81:         setOpenProp(openState)
82:       } else {
83:         _setOpen(openState)
84:       }
85:
86:       // This sets the cookie to keep the sidebar state.
87:       document.cookie = `${SIDEBAR_COOKIE_NAME}=${openState}; path=/; max-age=${SIDEBAR_COOKIE_MAX_AGE}`
88:     },
89:     [setOpenProp, open]
90:   )
91:
92:   // Helper to toggle the sidebar.
93:   const toggleSidebar = React.useCallback(() => {
94:     return isMobile
95:       ? setOpenMobile((open) => !open)
96:       : setOpen((open) => !open)
97:   }, [isMobile, setOpen, setOpenMobile])
98:
99:   // Adds a keyboard shortcut to toggle the sidebar.
100:   React.useEffect(() => {
101:     const handleKeyDown = (event: KeyboardEvent) => {
102:       if (
103:         event.key === SIDEBAR_KEYBOARD_SHORTCUT &&
104:         (event.metaKey || event.ctrlKey)
105:       ) {
106:         event.preventDefault()
107:         toggleSidebar()
108:       }
109:     }
110:
111:     window.addEventListener("keydown", handleKeyDown)
112:     return () => window.removeEventListener("keydown", handleKeyDown)
113:   }, [toggleSidebar])
114:
115:   // We add a state so that we can do data-state="expanded" or "collapsed".
116:   // This makes it easier to style the sidebar with Tailwind classes.
117:   const state = open ? "expanded" : "collapsed"
118:
119:   const contextValue = React.useMemo<SidebarContext>(
120:     () => ({
121:       state,
122:       open,
123:       setOpen,
124:       isMobile,
125:       openMobile,
126:       setOpenMobile,
127:       toggleSidebar,
128:     }),
129:     [state, open, setOpen, isMobile, openMobile, setOpenMobile, toggleSidebar]
130:   )
131:
132:   return (
133:     <SidebarContext.Provider value={contextValue}>

```



```

134:         <TooltipProvider delayDuration={0}>
135:             <div
136:                 style={
137:                     {
138:                         "--sidebar-width": SIDEBAR_WIDTH,
139:                         "--sidebar-width-icon": SIDEBAR_WIDTH_ICON,
140:                         ...style,
141:                     } as React.CSSProperties
142:                 }
143:                 className={cn(
144:                     "group/sidebar-wrapper flex min-h-svh w-full has-[[data-variant=inset]]:bg-sidebar",
145:                     className
146:                 )}
147:                 ref={ref}
148:                 {...props}
149:             >
150:                 {children}
151:             </div>
152:         </TooltipProvider>
153:     </SidebarContext.Provider>
154: )
155: }
156: )
157: SidebarProvider.displayName = "SidebarProvider"
158:
159: const Sidebar = React.forwardRef<
160:     HTMLDivElement,
161:     React.ComponentProps<"div"> & {
162:         side?: "left" | "right"
163:         variant?: "sidebar" | "floating" | "inset"
164:         collapsible?: "offcanvas" | "icon" | "none"
165:     }
166: > (
167:     (
168:         {
169:             side = "left",
170:             variant = "sidebar",
171:             collapsible = "offcanvas",
172:             className,
173:             children,
174:             ...props
175:         },
176:         ref
177:     ) => {
178:         const { isMobile, state, openMobile, setOpenMobile } = useSidebar()
179:
180:         if (collapsible === "none") {
181:             return (
182:                 <div
183:                     className={cn(
184:                         "flex h-full w-[--sidebar-width] flex-col bg-sidebar text-sidebar-foreground",
185:                         className
186:                     )}
187:                     ref={ref}
188:                     {...props}
189:                 >
190:                     {children}
191:                 </div>
192:             )
193:         }
194:
195:         if (isMobile) {
196:             return (
197:                 <Sheet open={openMobile} onOpenChange={setOpenMobile} {...props}>
198:                     <SheetContent
199:                         data-sidebar="sidebar"
200:                         data-mobile="true"
201:                         className="w-[--sidebar-width] bg-sidebar p-0 text-sidebar-foreground [>button]:hidden"
202:                         style={
203:                             {
204:                                 "--sidebar-width": SIDEBAR_WIDTH_MOBILE,
205:                             } as React.CSSProperties
206:                         }

```

```

207:         side={side}
208:       >
209:         <div className="flex h-full w-full flex-col">{children}</div>
210:       </SheetContent>
211:     </Sheet>
212:   )
213: }
214:
215: return (
216:   <div
217:     ref={ref}
218:     className="group peer hidden md:block text-sidebar-foreground"
219:     data-state={state}
220:     data-collapsible={state === "collapsed" ? collapsible : ""}
221:     data-variant={variant}
222:     data-side={side}
223:   >
224:     { /* This is what handles the sidebar gap on desktop */ }
225:     <div
226:       className=cx(
227:         "duration-200 relative h-svh w-[--sidebar-width] bg-transparent transition-[width] ease-linear"
228:         "group-data-[collapsible=offcanvas]:w-0",
229:         "group-data-[side=right]:rotate-180",
230:         variant === "floating" || variant === "inset"
231:           ? "group-data-[collapsible=icon]:w-[calc(var(--sidebar-width-icon)+_theme(spacing.4))]"
232:           : "group-data-[collapsible=icon]:w-[--sidebar-width-icon]"
233:       )
234:     />
235:     <div
236:       className=cx(
237:         "duration-200 fixed inset-y-0 z-10 hidden h-svh w-[--sidebar-width] transition-[left,right,width]"
238:         side === "left"
239:           ? "left-0 group-data-[collapsible=offcanvas]:left-[calc(var(--sidebar width)*-1)]"
240:           : "right-0 group-data-[collapsible=offcanvas]:right-[calc(var(--sidebar width)*-1)]",
241:         // Adjust the padding for floating and inset variants.
242:         variant === "floating" || variant === "inset"
243:           ? "p-2 group-data-[collapsible=icon]:w-[calc(var(--sidebar width-icon)+_theme(spacing.4)+2px)]"
244:           : "group-data-[collapsible=icon]:w-[--sidebar width-icon] group-data-[side=left]:border-r group-data-[side=right]:border-l"
245:       )
246:     />
247:     { ...props }
248:   >
249:     <div
250:       data-sidebar="sidebar"
251:       className="flex h-full w-full flex-col bg-sidebar group-data-[variant=floating]:rounded-lg group-data-[variant=floating]:border group-data-[variant=floating]:border-sidebar-border group-data-[variant=floating]:shadow"
252:     >
253:       {children}
254:     </div>
255:   </div>
256: </div>
257: )
258: }
259: )
260: Sidebar.displayName = "Sidebar"
261:
262: const SidebarTrigger = React.forwardRef<
263:   React.ElementRef<typeof Button>,
264:   React.ComponentProps<typeof Button>
265: >(({ className, onClick, ...props }, ref) => {
266:   const { toggleSidebar } = useSidebar()
267:
268:   return (
269:     <Button
270:       ref={ref}
271:       data-sidebar="trigger"
272:       variant="ghost"
273:       size="icon"
274:       className=cx("h-7 w-7", className)
275:       onClick={event => {
276:         onClick?.(event)
277:         toggleSidebar()
278:       }}
279:       {...props}

```

```

280:     >
281:     <PanelLeft />
282:     <span className="sr-only">Toggle Sidebar</span>
283:   </Button>
284: )
285: })
286: SidebarTrigger.displayName = "SidebarTrigger"
287:
288: const SidebarRail = React.forwardRef<
289:   HTMLButtonElement,
290:   React.ComponentProps<"button">
291: >(({ className, ...props }, ref) => {
292:   const { toggleSidebar } = useSidebar()
293:
294:   return (
295:     <button
296:       ref={ref}
297:       data-sidebar="rail"
298:       aria-label="Toggle Sidebar"
299:       tabIndex=-1}
300:     onClick={toggleSidebar}
301:     title="Toggle Sidebar"
302:     className={cn(
303:       "absolute inset-y-0 z-20 hidden w-4 -translate-x-1/2 transition-all ease-linear after:absolute after:
304:       "[[data-side=left]_&]:cursor-w-resize [[data-side=right]_&]:cursor-e-resize",
305:       "[[data-side=left][data-state=collapsed]_&]:cursor-e-resize [[data-side=right][data-state=collapsed]
306:       "group-data-[collapsible=offcanvas]:translate-x-0 group-data-[collapsible=offcanvas]:after:left-full",
307:       "[[data-side=left][data-collapsible=offcanvas]_&]:-right-2",
308:       "[[data-side=right][data-collapsible=offcanvas]_&]:-left-2",
309:       className
310:     )}
311:     {...props}
312:   />
313: )
314: })
315: SidebarRail.displayName = "SidebarRail"
316:
317: const SidebarInset = React.forwardRef<
318:   HTMLDivElement,
319:   React.ComponentProps<"main">
320: >(({ className, ...props }, ref) => {
321:   return (
322:     <main
323:       ref={ref}
324:       className={cn(
325:         "relative flex min-h-svh flex-1 flex-col bg-background",
326:         "peer-data-[variant=inset]:min-h-[calc(100svh-theme(spacing.4))]" md:peer-data-[variant=inset]:m-2 m
327:       className
328:     )}
329:     {...props}
330:   />
331: )
332: })
333: SidebarInset.displayName = "SidebarInset"
334:
335: const SidebarInput = React.forwardRef<
336:   React.ElementRef<typeof Input>,
337:   React.ComponentProps<typeof Input>
338: >(({ className, ...props }, ref) => {
339:   return (
340:     <Input
341:       ref={ref}
342:       data-sidebar="input"
343:       className={cn(
344:         "h-8 w-full bg-background shadow-none focus-visible:ring-2 focus-visible:ring-sidebar-ring",
345:         className
346:       )}
347:       {...props}
348:     />
349:   )
350: })
351: SidebarInput.displayName = "SidebarInput"
352:

```

```

353: const SidebarHeader = React.forwardRef<
354:   HTMLDivElement,
355:   React.ComponentProps<"div">
356: >(({ className, ...props }, ref) => {
357:   return (
358:     <div
359:       ref={ref}
360:       data-sidebar="header"
361:       className={cn("flex flex-col gap-2 p-2", className)}
362:       {...props}
363:     />
364:   )
365: })
366: SidebarHeader.displayName = "SidebarHeader"
367:
368: const SidebarFooter = React.forwardRef<
369:   HTMLDivElement,
370:   React.ComponentProps<"div">
371: >(({ className, ...props }, ref) => {
372:   return (
373:     <div
374:       ref={ref}
375:       data-sidebar="footer"
376:       className={cn("flex flex-col gap-2 p-2", className)}
377:       {...props}
378:     />
379:   )
380: })
381: SidebarFooter.displayName = "SidebarFooter"
382:
383: const SidebarSeparator = React.forwardRef<
384:   React.ElementRef<typeof Separator>,
385:   React.ComponentProps<typeof Separator>
386: >(({ className, ...props }, ref) => {
387:   return (
388:     <Separator
389:       ref={ref}
390:       data-sidebar="separator"
391:       className={cn("mx-2 w-auto bg-sidebar-border", className)}
392:       {...props}
393:     />
394:   )
395: })
396: SidebarSeparator.displayName = "SidebarSeparator"
397:
398: const SidebarContent = React.forwardRef<
399:   HTMLDivElement,
400:   React.ComponentProps<"div">
401: >(({ className, ...props }, ref) => {
402:   return (
403:     <div
404:       ref={ref}
405:       data-sidebar="content"
406:       className={cn(
407:         "flex min-h-0 flex-1 flex-col gap-2 overflow-auto group-data-[collapsible=icon]:overflow-hidden",
408:         className
409:       )}
410:       {...props}
411:     />
412:   )
413: })
414: SidebarContent.displayName = "SidebarContent"
415:
416: const SidebarGroup = React.forwardRef<
417:   HTMLDivElement,
418:   React.ComponentProps<"div">
419: >(({ className, ...props }, ref) => {
420:   return (
421:     <div
422:       ref={ref}
423:       data-sidebar="group"
424:       className={cn("relative flex w-full min-w-0 flex-col p-2", className)}
425:       {...props}

```

```

426:     />
427:   )
428: })
429: SidebarGroup.displayName = "SidebarGroup"
430:
431: const SidebarGroupLabel = React.forwardRef<
432:   HTMLDivElement,
433:   React.ComponentProps<"div"> & { asChild?: boolean }
434: >(({ className, asChild = false, ...props }, ref) => {
435:   const Comp = asChild ? Slot : "div"
436:
437:   return (
438:     <Comp
439:       ref={ref}
440:       data-sidebar="group-label"
441:       className={cn(
442:         "duration-200 flex h-8 shrink-0 items-center rounded-md px-2 text-xs font-medium text-sidebar-foreground",
443:         "group-data-[collapsible=icon]:-mt-8 group-data-[collapsible=icon]:opacity-0",
444:         className
445:       )}
446:       {...props}
447:     />
448:   )
449: })
450: SidebarGroupLabel.displayName = "SidebarGroupLabel"
451:
452: const SidebarGroupAction = React.forwardRef<
453:   HTMLButtonElement,
454:   React.ComponentProps<"button"> & { asChild?: boolean }
455: >(({ className, asChild = false, ...props }, ref) => {
456:   const Comp = asChild ? Slot : "button"
457:
458:   return (
459:     <Comp
460:       ref={ref}
461:       data-sidebar="group-action"
462:       className={cn(
463:         "absolute right-3 top-3.5 flex aspect-square w-5 items-center justify-center rounded-md p-0 text-si",
464:         // Increases the hit area of the button on mobile.
465:         "after:absolute after:-inset-2 after:md:hidden",
466:         "group-data-[collapsible=icon]:hidden",
467:         className
468:       )}
469:       {...props}
470:     />
471:   )
472: })
473: SidebarGroupAction.displayName = "SidebarGroupAction"
474:
475: const SidebarGroupContent = React.forwardRef<
476:   HTMLDivElement,
477:   React.ComponentProps<"div">
478: >(({ className, ...props }, ref) => (
479:   <div
480:     ref={ref}
481:     data-sidebar="group-content"
482:     className={cn("w-full text-sm", className)}
483:     {...props}
484:   />
485: ))
486: SidebarGroupContent.displayName = "SidebarGroupContent"
487:
488: const SidebarMenu = React.forwardRef<
489:   HTMLUListElement,
490:   React.ComponentProps<"ul">
491: >(({ className, ...props }, ref) => (
492:   <ul
493:     ref={ref}
494:     data-sidebar="menu"
495:     className={cn("flex w-full min-w-0 flex-col gap-1", className)}
496:     {...props}
497:   />
498: ))

```

```

499: SidebarMenu.displayName = "SidebarMenu"
500:
501: const SidebarMenuItem = React.forwardRef<
502:   HTMLLIElement,
503:   React.ComponentProps<"li">
504: >(({ className, ...props }, ref) => (
505:   <li
506:     ref={ref}
507:     data-sidebar="menu-item"
508:     className={cn("group/menu-item relative", className)}
509:     {...props}
510:   />
511: ))
512: SidebarMenuItem.displayName = "SidebarMenuItem"
513:
514: const sidebarMenuButtonVariants = cva(
515:   "peer/menu-button flex w-full items-center gap-2 overflow-hidden rounded-md p-2 text-left text-sm outline
516:   {
517:     variants: {
518:       variant: {
519:         default: "hover:bg-sidebar-accent hover:text-sidebar-accent-foreground",
520:         outline:
521:           "bg-background shadow-[0_0_1px_hsl(var(--sidebar-border))] hover:bg-sidebar-accent hover:text-s
522:       },
523:       size: {
524:         default: "h-8 text-sm",
525:         sm: "h-7 text-xs",
526:         lg: "h-12 text-sm group-data-[collapsible=icon]:!p-0",
527:       },
528:     },
529:     defaultVariants: {
530:       variant: "default",
531:       size: "default",
532:     },
533:   }
534: )
535:
536: const SidebarMenuButton = React.forwardRef<
537:   HTMLButtonElement,
538:   React.ComponentProps<"button"> & {
539:     asChild?: boolean
540:     isActive?: boolean
541:     tooltip?: string | React.ComponentProps<typeof TooltipContent>
542:   } & VariantProps<typeof sidebarMenuButtonVariants>
543: >((
544:   {
545:     {
546:       asChild = false,
547:       isActive = false,
548:       variant = "default",
549:       size = "default",
550:       tooltip,
551:       className,
552:       ...props
553:     },
554:     ref
555:   ) => {
556:     const Comp = asChild ? Slot : "button"
557:     const { isMobile, state } = useSidebar()
558:
559:     const button = (
560:       <Comp
561:         ref={ref}
562:         data-sidebar="menu-button"
563:         data-size={size}
564:         data-active={isActive}
565:         className={cn(sidebarMenuButtonVariants({ variant, size }), className)}
566:         {...props}
567:       />
568:     )
569:
570:     if (!tooltip) {
571:       return button

```

```

572:     }
573:
574:     if (typeof tooltip === "string") {
575:         tooltip = {
576:             children: tooltip,
577:         }
578:     }
579:
580:     return (
581:         <Tooltip>
582:             <TooltipTrigger asChild>{button}</TooltipTrigger>
583:             <TooltipContent
584:                 side="right"
585:                 align="center"
586:                 hidden={state !== "collapsed" || isMobile}
587:                 {...tooltip}
588:             />
589:         </Tooltip>
590:     )
591: }
592: )
593: SidebarMenuButton.displayName = "SidebarMenuButton"
594:
595: const SidebarMenuAction = React.forwardRef<
596:     HTMLButtonElement,
597:     React.ComponentProps<"button"> & {
598:         asChild?: boolean
599:         showOnHover?: boolean
600:     }
601: >(({ className, asChild = false, showOnHover = false, ...props }, ref) => {
602:     const Comp = asChild ? Slot : "button"
603:
604:     return (
605:         <Comp
606:             ref={ref}
607:             data-sidebar="menu-action"
608:             className={cn(
609:                 "absolute right-1 top-1.5 flex aspect-square w-5 items-center justify-center rounded-md p-0 text-si
610:                 // Increases the hit area of the button on mobile.
611:                 "after:absolute after:-inset-2 after:md:hidden",
612:                 "peer-data-[size=sm]/menu-button:top-1",
613:                 "peer-data-[size=default]/menu-button:top-1.5",
614:                 "peer-data-[size=lg]/menu-button:top-2.5",
615:                 "group-data-[collapsible=icon]:hidden",
616:                 showOnHover &&
617:                 "group-focus-within/menu-item:opacity-100 group-hover/menu-item:opacity-100 data-[state=open]:opa
618:                 className
619:             )}
620:             {...props}
621:         />
622:     )
623: })
624: SidebarMenuAction.displayName = "SidebarMenuAction"
625:
626: const SidebarMenuBadge = React.forwardRef<
627:     HTMLDivElement,
628:     React.ComponentProps<"div">
629: >(({ className, ...props }, ref) => (
630:     <div
631:         ref={ref}
632:         data-sidebar="menu-badge"
633:         className={cn(
634:             "absolute right-1 flex h-5 min-w-5 items-center justify-center rounded-md px-1 text-xs font-medium ta
635:             "peer-hover/menu-button:text-sidebar-accent-foreground peer-data-[active=true]/menu-button:text-sideb
636:             "peer-data-[size=sm]/menu-button:top-1",
637:             "peer-data-[size=default]/menu-button:top-1.5",
638:             "peer-data-[size=lg]/menu-button:top-2.5",
639:             "group-data-[collapsible=icon]:hidden",
640:             className
641:         )}
642:         {...props}
643:     />
644: ))

```

```

645: SidebarMenuBadge.displayName = "SidebarMenuBadge"
646:
647: const SidebarMenuSkeleton = React.forwardRef<
648:   HTMLDivElement,
649:   React.ComponentProps<"div"> & {
650:     showIcon?: boolean
651:   }
652: >(({ className, showIcon = false, ...props }, ref) => {
653:   // Random width between 50 to 90%.
654:   const width = React.useMemo(() => {
655:     return `${Math.floor(Math.random() * 40) + 50}%`
656:   }, [])
657:
658:   return (
659:     <div
660:       ref={ref}
661:       data-sidebar="menu-skeleton"
662:       className={cn("rounded-md h-8 flex gap-2 px-2 items-center", className)}
663:       {...props}
664:     >
665:       {showIcon && (
666:         <Skeleton
667:           className="size-4 rounded-md"
668:           data-sidebar="menu-skeleton-icon"
669:         />
670:       )}
671:       <Skeleton
672:         className="h-4 flex-1 max-w-[--skeleton-width]"
673:         data-sidebar="menu-skeleton-text"
674:         style={
675:           {
676:             "--skeleton-width": width,
677:           } as React.CSSProperties
678:         }
679:       />
680:     </div>
681:   )
682: })
683: SidebarMenuSkeleton.displayName = "SidebarMenuSkeleton"
684:
685: const SidebarMenuSub = React.forwardRef<
686:   HTMLUListElement,
687:   React.ComponentProps<"ul">
688: >(({ className, ...props }, ref) => (
689:   <ul
690:     ref={ref}
691:     data-sidebar="menu-sub"
692:     className={cn(
693:       "mx-3.5 flex min-w-0 translate-x-px flex-col gap-1 border-1 border-sidebar-border px-2.5 py-0.5",
694:       "group-data-[collapsible=icon]:hidden",
695:       className
696:     )}
697:     {...props}
698:   />
699: ))
700: SidebarMenuSub.displayName = "SidebarMenuSub"
701:
702: const SidebarMenuSubItem = React.forwardRef<
703:   HTMLLIElement,
704:   React.ComponentProps<"li">
705: >(({ ...props }, ref) => <li ref={ref} {...props} />)
706: SidebarMenuSubItem.displayName = "SidebarMenuSubItem"
707:
708: const SidebarMenuSubButton = React.forwardRef<
709:   HTMLAnchorElement,
710:   React.ComponentProps<"a"> & {
711:     asChild?: boolean
712:     size?: "sm" | "md"
713:     isActive?: boolean
714:   }
715: >(({ asChild = false, size = "md", isActive, className, ...props }, ref) => {
716:   const Comp = asChild ? Slot : "a"
717:

```



```

718:   return (
719:     <Comp
720:       ref={ref}
721:       data-sidebar="menu-sub-button"
722:       data-size={size}
723:       data-active={isActive}
724:       className={cn(
725:         "flex h-7 min-w-0 -translate-x-px items-center gap-2 overflow-hidden rounded-md px-2 text-sidebar-f
726:         "data-[active=true]:bg-sidebar-accent data-[active=true]:text-sidebar-accent-foreground",
727:         size === "sm" && "text-xs",
728:         size === "md" && "text-sm",
729:         "group-data-[collapsible=icon]:hidden",
730:         className
731:       )}
732:       {...props}
733:     />
734:   )
735: })
736: SidebarMenuSubButton.displayName = "SidebarMenuSubButton"
737:
738: export {
739:   Sidebar,
740:   SidebarContent,
741:   SidebarFooter,
742:   SidebarGroup,
743:   SidebarGroupAction,
744:   SidebarGroupContent,
745:   SidebarGroupLabel,
746:   SidebarHeader,
747:   SidebarInput,
748:   SidebarInset,
749:   SidebarMenu,
750:   SidebarMenuAction,
751:   SidebarMenuBadge,
752:   SidebarMenuButton,
753:   SidebarMenuItem,
754:   SidebarMenuSkeleton,
755:   SidebarMenuSub,
756:   SidebarMenuSubButton,
757:   SidebarMenuSubItem,
758:   SidebarProvider,
759:   SidebarRail,
760:   SidebarSeparator,
761:   SidebarTrigger,
762:   useSidebar,
763: }

```

■ File: components/ui/skeleton.tsx

```

=====
1: import { cn } from "@/lib/utils"
2:
3: function Skeleton({
4:   className,
5:   ...props
6: }: React.HTMLAttributes<HTMLDivElement>) {
7:   return (
8:     <div
9:       className={cn("animate-pulse rounded-md bg-muted", className)}
10:      {...props}
11:    />
12:   )
13: }
14:
15: export { Skeleton }

```

■ File: components/ui/slider.tsx

```

=====
1: "use client"
2:

```

```

3: import * as React from "react"
4: import * as SliderPrimitive from "@radix-ui/react-slider"
5:
6: import { cn } from "@lib/utils"
7:
8: const Slider = React.forwardRef<
9:   React.ElementRef<typeof SliderPrimitive.Root>,
10:   React.ComponentPropsWithoutRef<typeof SliderPrimitive.Root>
11: >(({ className, ...props }, ref) => (
12:   <SliderPrimitive.Root
13:     ref={ref}
14:     className={cn(
15:       "relative flex w-full touch-none select-none items-center",
16:       className
17:     )}
18:     {...props}
19:   >
20:     <SliderPrimitive.Track className="relative h-2 w-full grow overflow-hidden rounded-full bg-secondary">
21:       <SliderPrimitive.Range className="absolute h-full bg-primary" />
22:     </SliderPrimitive.Track>
23:     <SliderPrimitive.Thumb className="block h-5 w-5 rounded-full border-2 border-primary bg-background ring"
24:     </SliderPrimitive.Root>
25:   ))
26: Slider.displayName = SliderPrimitive.Root.displayName
27:
28: export { Slider }

```

■ File: components/ui/sonner.tsx

```

1: "use client"
2:
3: import { useTheme } from "next-themes"
4: import { Toaster as Sonner } from "sonner"
5:
6: type ToasterProps = React.ComponentProps<typeof Sonner>
7:
8: const Toaster = ({ ...props }: ToasterProps) => {
9:   const { theme = "system" } = useTheme()
10:
11:   return (
12:     <Sonner
13:       theme={theme as ToasterProps["theme"]}
14:       className="toaster group"
15:       toastOptions={{
16:         classNames: {
17:           toast:
18:             "group toast group-[.toaster]:bg-background group-[.toaster]:text-foreground group-[.toaster]:b
19:           description: "group-[.toast]:text-muted-foreground",
20:           actionButton:
21:             "group-[.toast]:bg-primary group-[.toast]:text-primary-foreground",
22:           cancelButton:
23:             "group-[.toast]:bg-muted group-[.toast]:text-muted-foreground",
24:         },
25:       }}
26:       {...props}
27:     />
28:   )
29: }
30:
31: export { Toaster }

```

■ File: components/ui/switch.tsx

```

1: "use client"
2:
3: import * as React from "react"
4: import * as SwitchPrimitives from "@radix-ui/react-switch"
5:
6: import { cn } from "@lib/utils"

```

```

7:
8: const Switch = React.forwardRef<
9:   React.ElementRef<typeof SwitchPrimitives.Root>,
10:  React.ComponentPropsWithoutRef<typeof SwitchPrimitives.Root>
11: >(({ className, ...props }, ref) => (
12:   <SwitchPrimitives.Root
13:     className={cn(
14:       "peer inline-flex h-6 w-11 shrink-0 cursor-pointer items-center rounded-full border-2 border-transparent
15:       className
16:     )}
17:     {...props}
18:     ref={ref}
19:   >
20:     <SwitchPrimitives.Thumb
21:       className={cn(
22:         "pointer-events-none block h-5 w-5 rounded-full bg-background shadow-lg ring-0 transition-transform
23:       )}
24:     />
25:   </SwitchPrimitives.Root>
26: ))
27: Switch.displayName = SwitchPrimitives.Root.displayName
28:
29: export { Switch }

```

■ File: components/ui/table.tsx

```

1: import * as React from "react"
2:
3: import { cn } from "@/lib/utils"
4:
5: const Table = React.forwardRef<
6:   HTMLTableElement,
7:   React.HTMLAttributes<HTMLTableElement>
8: >(({ className, ...props }, ref) => (
9:   <div className="relative w-full overflow-auto">
10:     <table
11:       ref={ref}
12:       className={cn("w-full caption-bottom text-sm", className)}
13:       {...props}
14:     />
15:   </div>
16: ))
17: Table.displayName = "Table"
18:
19: const TableHeader = React.forwardRef<
20:   HTMLTableSectionElement,
21:   React.HTMLAttributes<HTMLTableSectionElement>
22: >(({ className, ...props }, ref) => (
23:   <thead ref={ref} className={cn("[&_tr]:border-b", className)} {...props} />
24: ))
25: TableHeader.displayName = "TableHeader"
26:
27: const TableBody = React.forwardRef<
28:   HTMLTableSectionElement,
29:   React.HTMLAttributes<HTMLTableSectionElement>
30: >(({ className, ...props }, ref) => (
31:   <tbody
32:     ref={ref}
33:     className={cn("[&_tr:last-child]:border-0", className)}
34:     {...props}
35:   />
36: ))
37: TableBody.displayName = "TableBody"
38:
39: const TableFooter = React.forwardRef<
40:   HTMLTableSectionElement,
41:   React.HTMLAttributes<HTMLTableSectionElement>
42: >(({ className, ...props }, ref) => (
43:   <tfoot
44:     ref={ref}
45:     className={cn(

```

```

46:         "border-t bg-muted/50 font-medium [>tr]:last:border-b-0",
47:         className
48:     )}
49:     {...props}
50: />
51: ))
52: TableFooter.displayName = "TableFooter"
53:
54: const TableRow = React.forwardRef<
55:   HTMLTableRowElement,
56:   React.HTMLAttributes<HTMLTableRowElement>
57: >(({ className, ...props }, ref) => (
58:   <tr
59:     ref={ref}
60:     className={cn(
61:       "border-b transition-colors hover:bg-muted/50 data-[state=selected]:bg-muted",
62:       className
63:     )}
64:     {...props}
65:   />
66: ))
67: TableRow.displayName = "TableRow"
68:
69: const TableHead = React.forwardRef<
70:   HTMLTableCellElement,
71:   React.ThHTMLAttributes<HTMLTableCellElement>
72: >(({ className, ...props }, ref) => (
73:   <th
74:     ref={ref}
75:     className={cn(
76:       "h-12 px-4 text-left align-middle font-medium text-muted-foreground [&:has([role=checkbox])]:pr-0",
77:       className
78:     )}
79:     {...props}
80:   />
81: ))
82: TableHead.displayName = "TableHead"
83:
84: const TableCell = React.forwardRef<
85:   HTMLTableCellElement,
86:   React.TdHTMLAttributes<HTMLTableCellElement>
87: >(({ className, ...props }, ref) => (
88:   <td
89:     ref={ref}
90:     className={cn("p-4 align-middle [&:has([role=checkbox])]:pr-0", className)}
91:     {...props}
92:   />
93: ))
94: TableCell.displayName = "TableCell"
95:
96: const TableCaption = React.forwardRef<
97:   HTMLTableCaptionElement,
98:   React.HTMLAttributes<HTMLTableCaptionElement>
99: >(({ className, ...props }, ref) => (
100:   <caption
101:     ref={ref}
102:     className={cn("mt-4 text-sm text-muted-foreground", className)}
103:     {...props}
104:   />
105: ))
106: TableCaption.displayName = "TableCaption"
107:
108: export {
109:   Table,
110:   TableHeader,
111:   TableBody,
112:   TableFooter,
113:   TableHead,
114:   TableRow,
115:   TableCell,
116:   TableCaption,
117: }

```

■ File: components/ui/tabs.tsx

```
=====
1: "use client"
2:
3: import * as React from "react"
4: import * as TabsPrimitive from "@radix-ui/react-tabs"
5:
6: import { cn } from "@/lib/utils"
7:
8: const Tabs = TabsPrimitive.Root
9:
10: const TabsList = React.forwardRef<
11:   React.ElementRef<typeof TabsPrimitive.List>,
12:   React.ComponentPropsWithoutRef<typeof TabsPrimitive.List>
13: >(({ className, ...props }, ref) => (
14:   <TabsPrimitive.List
15:     ref={ref}
16:     className={cn(
17:       "inline-flex h-10 items-center justify-center rounded-md bg-muted p-1 text-muted-foreground",
18:       className
19:     )}
20:     {...props}
21:   />
22: ))
23: TabsList.displayName = TabsPrimitive.List.displayName
24:
25: const TabsTrigger = React.forwardRef<
26:   React.ElementRef<typeof TabsPrimitive.Trigger>,
27:   React.ComponentPropsWithoutRef<typeof TabsPrimitive.Trigger>
28: >(({ className, ...props }, ref) => (
29:   <TabsPrimitive.Trigger
30:     ref={ref}
31:     className={cn(
32:       "inline-flex items-center justify-center whitespace-nowrap rounded-sm px-3 py-1.5 text-sm font-medium",
33:       className
34:     )}
35:     {...props}
36:   />
37: ))
38: TabsTrigger.displayName = TabsPrimitive.Trigger.displayName
39:
40: const TabsContent = React.forwardRef<
41:   React.ElementRef<typeof TabsPrimitive.Content>,
42:   React.ComponentPropsWithoutRef<typeof TabsPrimitive.Content>
43: >(({ className, ...props }, ref) => (
44:   <TabsPrimitive.Content
45:     ref={ref}
46:     className={cn(
47:       "mt-2 ring-offset-background focus-visible:outline-none focus-visible:ring-2 focus-visible:ring-ring",
48:       className
49:     )}
50:     {...props}
51:   />
52: ))
53: TabsContent.displayName = TabsPrimitive.Content.displayName
54:
55: export { Tabs, TabsList, TabsTrigger, TabsContent }
```

■ File: components/ui/textarea.tsx

```
=====
1: import * as React from "react";
2:
3: import { cn } from "@/lib/utils";
4:
5: const Textarea = React.forwardRef<
6:   HTMLTextAreaElement,
7:   React.ComponentProps<"textarea">
8: >(({ className, ...props }, ref) => {
9:   return (
10:     <textarea
11:       className={cn(
```

```

12:         "flex min-h-[80px] w-full rounded-md border border-input bg-white text-black px-3 py-2 text-base ri
13:         className
14:     })
15:     ref={ref}
16:     {...props}
17:   />
18:   );
19: });
20:
21: Textarea.displayName = "Textarea";
22:
23: export { Textarea };

```

■ File: components\ui\toast.tsx

```

=====
1: "use client";
2:
3: import * as React from "react";
4: import * as ToastPrimitives from "@radix-ui/react-toast";
5: import { cva, type VariantProps } from "class-variance-authority";
6: import { CheckCircle, X, AlertTriangle, Loader2 } from "lucide-react";
7: import { cn } from "@/lib/Utils";
8:
9: const ToastProvider = ToastPrimitives.Provider;
10:
11: const ToastViewport = React.forwardRef<
12:   React.ElementRef<typeof ToastPrimitives.Viewport>,
13:   React.ComponentPropsWithoutRef<typeof ToastPrimitives.Viewport>
14: >(({ className, ...props }, ref) => (
15:   <ToastPrimitives.Viewport
16:     ref={ref}
17:     className={cn(
18:       "fixed top-4 right-4 z-[100] flex w-full max-w-sm flex-col space-y-2",
19:       className
20:     )}
21:     {...props}
22:   />
23: ));
24: ToastViewport.displayName = ToastPrimitives.Viewport.displayName;
25:
26: const toastVariants = cva(
27:   "group pointer-events-auto relative flex w-full items-start justify-between space-x-4 overflow-hidden rou
28:   {
29:     variants: {
30:       variant: {
31:         default: "bg-white text-black border-gray-200",
32:         success: "bg-green-500 text-white border-green-500",
33:         warning: "bg-yellow-400 text-black border-yellow-500",
34:         destructive: "bg-red-500 text-white border-red-500",
35:         loading: "bg-gray-100 text-gray-800 border border-gray-300",
36:       },
37:     },
38:     defaultVariants: {
39:       variant: "default",
40:     },
41:   }
42: );
43:
44: const variantIcons = {
45:   success: <CheckCircle className="h-5 w-5 text-white shrink-0 mt-1" />,
46:   warning: <AlertTriangle className="h-5 w-5 text-black shrink-0 mt-1" />,
47:   destructive: <X className="h-5 w-5 text-white shrink-0 mt-1" />,
48:   loading: (
49:     <Loader2 className="h-5 w-5 animate-spin text-gray-600 shrink-0 mt-1" />
50:   ),
51: };
52:
53: const Toast = React.forwardRef<
54:   React.ElementRef<typeof ToastPrimitives.Root>,
55:   React.ComponentPropsWithoutRef<typeof ToastPrimitives.Root> &
56:   VariantProps<typeof toastVariants>

```

```

57: >(({ className, variant, ...props }, ref) => {
58:   return (
59:     <ToastPrimitives.Root
60:       ref={ref}
61:       className={cn(toastVariants({ variant }), className)}
62:       duration={3000} // default auto-dismiss
63:       {...props}
64:     />
65:   );
66: });
67: Toast.displayName = ToastPrimitives.Root.displayName;
68:
69: const ToastAction = React.forwardRef<
70:   React.ElementRef<typeof ToastPrimitives.Action>,
71:   React.ComponentPropsWithoutRef<typeof ToastPrimitives.Action>
72: >(({ className, ...props }, ref) => (
73:   <ToastPrimitives.Action
74:     ref={ref}
75:     className={cn(
76:       "inline-flex h-8 shrink-0 items-center justify-center rounded-md border bg-transparent px-3 text-sm f
77:       className
78:     )}
79:     {...props}
80:   />
81: ));
82: ToastAction.displayName = ToastPrimitives.Action.displayName;
83:
84: const ToastClose = React.forwardRef<
85:   React.ElementRef<typeof ToastPrimitives.Close>,
86:   React.ComponentPropsWithoutRef<typeof ToastPrimitives.Close>
87: >(({ className, ...props }, ref) => (
88:   <ToastPrimitives.Close
89:     ref={ref}
90:     className={cn(
91:       "absolute right-2 bottom-2 rounded-md p-1 text-foreground/50 transition-opacity hover:text-foreground
92:     )}
93:     toast-close=""
94:     {...props}
95:   >
96:     <X className="h-4 w-4" />
97:   </ToastPrimitives.Close>
98: ));
99: ToastClose.displayName = ToastPrimitives.Close.displayName;
100:
101: const ToastTitle = React.forwardRef<
102:   React.ElementRef<typeof ToastPrimitives.Title>,
103:   React.ComponentPropsWithoutRef<typeof ToastPrimitives.Title>
104: >(({ className, ...props }, ref) => (
105:   <ToastPrimitives.Title
106:     ref={ref}
107:     className={cn("text-sm font-semibold", className)}
108:     {...props}
109:   />
110: ));
111: ToastTitle.displayName = ToastPrimitives.Title.displayName;
112:
113: const ToastDescription = React.forwardRef<
114:   React.ElementRef<typeof ToastPrimitives.Description>,
115:   React.ComponentPropsWithoutRef<typeof ToastPrimitives.Description>
116: >(({ className, ...props }, ref) => (
117:   <ToastPrimitives.Description
118:     ref={ref}
119:     className={cn("text-sm opacity-90", className)}
120:     {...props}
121:   />
122: ));
123: ToastDescription.displayName = ToastPrimitives.Description.displayName;
124:
125: type ToastProps = React.ComponentPropsWithoutRef<typeof Toast>;
126: type ToastActionElement = React.ReactElement<typeof ToastAction>;
127:
128: export {
129:   ToastProvider,

```

```

130:   ToastViewport,
131:   Toast,
132:   ToastTitle,
133:   ToastDescription,
134:   ToastClose,
135:   ToastAction,
136:   type ToastProps,
137:   type ToastActionElement,
138:   variantIcons,
139: };

```

■ File: components/ui/toaster.tsx

```

1: "use client";
2:
3: import {
4:   Toast,
5:   ToastClose,
6:   ToastDescription,
7:   ToastProvider,
8:   ToastTitle,
9:   ToastViewport,
10:  variantIcons,
11: } from "@components/ui/toast";
12: import { useToast } from "@components/ui/use-toast";
13:
14: export function Toaster() {
15:   const { toasts } = useToast();
16:
17:   return (
18:     <ToastProvider swipeDirection="up">
19:       {toasts.map(
20:         ({ id, title, description, action, variant = "default", ...props }) => (
21:           <Toast key={id} variant={variant} {...props}>
22:             <div className="flex items-start gap-3">
23:               {variant !== "default" && variantIcons[variant]}
24:               <div className="grid gap-1">
25:                 {title && <ToastTitle>{title}</ToastTitle>}
26:                 {description && (
27:                   <ToastDescription>{description}</ToastDescription>
28:                 )}
29:               </div>
30:             </div>
31:             {action}
32:             <ToastClose />
33:           </Toast>
34:         )
35:       )}
36:     <ToastViewport />
37:   </ToastProvider>
38: );
39: }

```

■ File: components/ui/toggle-group.tsx

```

1: "use client"
2:
3: import * as React from "react"
4: import * as ToggleGroupPrimitive from "@radix-ui/react-toggle-group"
5: import { type VariantProps } from "class-variance-authority"
6:
7: import { cn } from "@lib/Utils"
8: import { toggleVariants } from "@components/ui/toggle"
9:
10: const ToggleGroupContext = React.createContext<
11:   VariantProps<typeof toggleVariants>
12: >({
13:   size: "default",
14:   variant: "default",

```



```

15: })
16:
17: const ToggleGroup = React.forwardRef<
18:   React.ElementRef<typeof ToggleGroupPrimitive.Root>,
19:   React.ComponentPropsWithoutRef<typeof ToggleGroupPrimitive.Root> &
20:     VariantProps<typeof toggleVariants>
21: >(({ className, variant, size, children, ...props }, ref) => (
22:   <ToggleGroupPrimitive.Root
23:     ref={ref}
24:     className={cn("flex items-center justify-center gap-1", className)}
25:     {...props}
26:   >
27:     <ToggleGroupContext.Provider value={{ variant, size }}>
28:       {children}
29:     </ToggleGroupContext.Provider>
30:   </ToggleGroupPrimitive.Root>
31: ))
32:
33: ToggleGroup.displayName = ToggleGroupPrimitive.Root.displayName
34:
35: const ToggleGroupItem = React.forwardRef<
36:   React.ElementRef<typeof ToggleGroupPrimitive.Item>,
37:   React.ComponentPropsWithoutRef<typeof ToggleGroupPrimitive.Item> &
38:     VariantProps<typeof toggleVariants>
39: >(({ className, children, variant, size, ...props }, ref) => {
40:   const context = React.useContext(ToggleGroupContext)
41:
42:   return (
43:     <ToggleGroupPrimitive.Item
44:       ref={ref}
45:       className={cn(
46:         toggleVariants({
47:           variant: context.variant || variant,
48:           size: context.size || size,
49:         }),
50:         className
51:       )}
52:       {...props}
53:     >
54:       {children}
55:     </ToggleGroupPrimitive.Item>
56:   )
57: })
58:
59: ToggleGroupItem.displayName = ToggleGroupPrimitive.Item.displayName
60:
61: export { ToggleGroup, ToggleGroupItem }

```

■ File: components\ui\toggle.tsx

```

1: "use client"
2:
3: import * as React from "react"
4: import * as TogglePrimitive from "@radix-ui/react-toggle"
5: import { cva, type VariantProps } from "class-variance-authority"
6:
7: import { cn } from "@lib/Utils"
8:
9: const toggleVariants = cva(
10:   "inline-flex items-center justify-center rounded-md text-sm font-medium ring-offset-background transition-colors",
11:   {
12:     variants: {
13:       variant: {
14:         default: "bg-transparent",
15:         outline:
16:           "border border-input bg-transparent hover:bg-accent hover:text-accent-foreground",
17:       },
18:       size: {
19:         default: "h-10 px-3 min-w-10",
20:         sm: "h-9 px-2.5 min-w-9",
21:         lg: "h-11 px-5 min-w-11",

```

```

22:     },
23:   },
24:   defaultVariants: {
25:     variant: "default",
26:     size: "default",
27:   },
28: }
29: )
30:
31: const Toggle = React.forwardRef<
32:   React.ElementRef<typeof TogglePrimitive.Root>,
33:   React.ComponentPropsWithoutRef<typeof TogglePrimitive.Root> &
34:   VariantProps<typeof toggleVariants>
35: >(({ className, variant, size, ...props }, ref) => (
36:   <TogglePrimitive.Root
37:     ref={ref}
38:     className={cn(toggleVariants({ variant, size, className })))}
39:     {...props}
40:   />
41: ))
42:
43: Toggle.displayName = TogglePrimitive.Root.displayName
44:
45: export { Toggle, toggleVariants }

```

■ File: components/ui/tooltip.tsx

```

=====
1: "use client"
2:
3: import * as React from "react"
4: import * as TooltipPrimitive from "@radix-ui/react-tooltip"
5:
6: import { cn } from "@lib/utils"
7:
8: const TooltipProvider = TooltipPrimitive.Provider
9:
10: const Tooltip = TooltipPrimitive.Root
11:
12: const TooltipTrigger = TooltipPrimitive.Trigger
13:
14: const TooltipContent = React.forwardRef<
15:   React.ElementRef<typeof TooltipPrimitive.Content>,
16:   React.ComponentPropsWithoutRef<typeof TooltipPrimitive.Content>
17: >(({ className, sideOffset = 4, ...props }, ref) => (
18:   <TooltipPrimitive.Content
19:     ref={ref}
20:     sideOffset={sideOffset}
21:     className={cn(
22:       "z-50 overflow-hidden rounded-md border bg-popover px-3 py-1.5 text-sm text-popover-foreground shadow
23:       className
24:     )}
25:     {...props}
26:   />
27: ))
28: TooltipContent.displayName = TooltipPrimitive.Content.displayName
29:
30: export { Tooltip, TooltipTrigger, TooltipContent, TooltipProvider }

```

■ File: components/ui/use-mobile.tsx

```

=====
1: import * as React from "react"
2:
3: const MOBILE_BREAKPOINT = 768
4:
5: export function useIsMobile() {
6:   const [isMobile, setIsMobile] = React.useState<boolean | undefined>(undefined)
7:
8:   React.useEffect(() => {
9:     const mql = window.matchMedia(`(max-width: ${MOBILE_BREAKPOINT - 1}px)`)

```

```

10:     const onChange = () => {
11:         setIsMobile(window.innerWidth < MOBILE_BREAKPOINT)
12:     }
13:     mql.addEventListener("change", onChange)
14:     setIsMobile(window.innerWidth < MOBILE_BREAKPOINT)
15:     return () => mql.removeEventListener("change", onChange)
16: }, [])
17:
18: return !!isMobile
19: }

```

■ File: components/ui/use-toast.ts

```

1: "use client"
2:
3: import { useEffect } from "react"
4:
5: import type React from "react"
6:
7: import { create } from "zustand"
8: import type { ToastProps } from "../toast"
9:
10: type Toast = ToastProps & {
11:   id: string
12:   title?: React.ReactNode
13:   description?: React.ReactNode
14:   action?: React.ReactNode
15: }
16:
17: const TOAST_LIMIT = 1
18: const TOAST_REMOVE_DELAY = 1000000 // Keep toasts on screen for a long time for demo purposes
19:
20: type State = {
21:   toasts: Toast[]
22: }
23:
24: type Actions = {
25:   addToast: (toast: Toast) => void
26:   updateToast: (id: string, toast: Partial<Toast>) => void
27:   dismissToast: (id?: string) => void
28:   removeToast: (id?: string) => void
29: }
30:
31: const toastStore = create<State & Actions>((set, get) => ({
32:   toasts: [],
33:   addToast: (toast) => {
34:     set((state) => ({
35:       toasts: [toast, ...state.toasts].slice(0, TOAST_LIMIT),
36:     }))
37:   },
38:   updateToast: (id, toast) => {
39:     set((state) => ({
40:       toasts: state.toasts.map((t) => (t.id === id ? { ...t, ...toast } : t)),
41:     }))
42:   },
43:   dismissToast: (id) => {
44:     set((state) => ({
45:       toasts: state.toasts.map((t) => (t.id === id || id === undefined ? { ...t, open: false } : t)),
46:     }))
47:   },
48:   removeToast: (id) => {
49:     set((state) => ({
50:       toasts: state.toasts.filter((t) => t.id !== id),
51:     }))
52:   },
53: }))
54:
55: let count = 0
56:
57: function genId() {
58:   count = (count + 1) % Number.MAX_SAFE_INTEGER

```

```

59:   return count.toString()
60: }
61:
62: type ToastOptions = Omit<Toast, "id">
63:
64: function toast(opts: ToastOptions) {
65:   const id = genId()
66:
67:   const update = (newOpts: Partial<Toast>) => toastStore.getState().updateToast(id, newOpts)
68:   const dismiss = () => toastStore.getState().dismissToast(id)
69:
70:   toastStore.getState().addToast({
71:     id,
72:     open: true,
73:     ...opts,
74:   })
75:
76:   if (opts.duration !== Number.POSITIVE_INFINITY) {
77:     setTimeout(() => dismiss(), opts.duration || TOAST_REMOVE_DELAY)
78:   }
79:
80:   return {
81:     id,
82:     update,
83:     dismiss,
84:   }
85: }
86:
87: export function useToast() {
88:   const { toasts, addToast, updateToast, dismissToast, removeToast } = toastStore()
89:
90:   useEffect(() => {
91:     const unsub = toastStore.subscribe((state) => {
92:       state.toasts.forEach((t) => {
93:         if (t.open === false) {
94:           // We use a timeout to allow the toast to animate out before being removed
95:           setTimeout(() => removeToast(t.id), 400)
96:         }
97:       })
98:     })
99:     return () => unsub()
100:   }, [removeToast])
101:
102:   return {
103:     toasts,
104:     toast, // Expose the toast function directly
105:     dismiss: dismissToast,
106:   }
107: }

```

File: hooks\use-mobile.tsx

```

=====
1: import * as React from "react"
2:
3: const MOBILE_BREAKPOINT = 768
4:
5: export function useIsMobile() {
6:   const [isMobile, setIsMobile] = React.useState<boolean | undefined>(undefined)
7:
8:   React.useEffect(() => {
9:     const mql = window.matchMedia(`(max-width: ${MOBILE_BREAKPOINT - 1}px)` )
10:    const onChange = () => {
11:      setIsMobile(window.innerWidth < MOBILE_BREAKPOINT)
12:    }
13:    mql.addEventListener("change", onChange)
14:    setIsMobile(window.innerWidth < MOBILE_BREAKPOINT)
15:    return () => mql.removeEventListener("change", onChange)
16:  }, [])
17:
18:   return !!isMobile
19: }

```

■ File: hooks\use-toast.ts

```
=====
1: "use client"
2:
3: // Inspired by react-hot-toast library
4: import * as React from "react"
5:
6: import type {
7:   ToastActionElement,
8:   ToastProps,
9: } from "@components/ui/toast"
10:
11: const TOAST_LIMIT = 1
12: const TOAST_REMOVE_DELAY = 1000000
13:
14: type ToasterToast = ToastProps & {
15:   id: string
16:   title?: React.ReactNode
17:   description?: React.ReactNode
18:   action?: ToastActionElement
19: }
20:
21: const actionTypes = {
22:   ADD_TOAST: "ADD_TOAST",
23:   UPDATE_TOAST: "UPDATE_TOAST",
24:   DISMISS_TOAST: "DISMISS_TOAST",
25:   REMOVE_TOAST: "REMOVE_TOAST",
26: } as const
27:
28: let count = 0
29:
30: function genId() {
31:   count = (count + 1) % Number.MAX_SAFE_INTEGER
32:   return count.toString()
33: }
34:
35: type ActionType = typeof actionTypes
36:
37: type Action =
38:   | {
39:     type: ActionType["ADD_TOAST"]
40:     toast: ToasterToast
41:   }
42:   | {
43:     type: ActionType["UPDATE_TOAST"]
44:     toast: Partial<ToasterToast>
45:   }
46:   | {
47:     type: ActionType["DISMISS_TOAST"]
48:     toastId?: ToasterToast["id"]
49:   }
50:   | {
51:     type: ActionType["REMOVE_TOAST"]
52:     toastId?: ToasterToast["id"]
53:   }
54:
55: interface State {
56:   toasts: ToasterToast[]
57: }
58:
59: const toastTimeouts = new Map<string, ReturnType<typeof setTimeout>>()
60:
61: const addToRemoveQueue = (toastId: string) => {
62:   if (toastTimeouts.has(toastId)) {
63:     return
64:   }
65:
66:   const timeout = setTimeout(() => {
67:     toastTimeouts.delete(toastId)
68:     dispatch({
69:       type: "REMOVE_TOAST",
70:       toastId: toastId,
71:     })

```

```

72:   }, TOAST_REMOVE_DELAY)
73:
74:   toastTimeouts.set(toastId, timeout)
75: }
76:
77: export const reducer = (state: State, action: Action): State => {
78:   switch (action.type) {
79:     case "ADD_TOAST":
80:       return {
81:         ...state,
82:         toasts: [action.toast, ...state.toasts].slice(0, TOAST_LIMIT),
83:       }
84:
85:     case "UPDATE_TOAST":
86:       return {
87:         ...state,
88:         toasts: state.toasts.map((t) =>
89:           t.id === action.toast.id ? { ...t, ...action.toast } : t
90:         ),
91:       }
92:
93:     case "DISMISS_TOAST": {
94:       const { toastId } = action
95:
96:       // ! Side effects ! - This could be extracted into a dismissToast() action,
97:       // but I'll keep it here for simplicity
98:       if (toastId) {
99:         addToRemoveQueue(toastId)
100:       } else {
101:         state.toasts.forEach((toast) => {
102:           addToRemoveQueue(toast.id)
103:         })
104:       }
105:
106:       return {
107:         ...state,
108:         toasts: state.toasts.map((t) =>
109:           t.id === toastId || toastId === undefined
110:             ? {
111:                 ...t,
112:                 open: false,
113:               }
114:             : t
115:         ),
116:       }
117:     }
118:     case "REMOVE_TOAST":
119:       if (action.toastId === undefined) {
120:         return {
121:           ...state,
122:           toasts: [],
123:         }
124:       }
125:       return {
126:         ...state,
127:         toasts: state.toasts.filter((t) => t.id !== action.toastId),
128:       }
129:   }
130: }
131:
132: const listeners: Array<(state: State) => void> = []
133:
134: let memoryState: State = { toasts: [] }
135:
136: function dispatch(action: Action) {
137:   memoryState = reducer(memoryState, action)
138:   listeners.forEach((listener) => {
139:     listener(memoryState)
140:   })
141: }
142:
143: type Toast = Omit<ToasterToast, "id">
144:

```

```

145: function toast({ ...props }: Toast) {
146:   const id = genId()
147:
148:   const update = (props: ToasterToast) =>
149:     dispatch({
150:       type: "UPDATE_TOAST",
151:       toast: { ...props, id },
152:     })
153:   const dismiss = () => dispatch({ type: "DISMISS_TOAST", toastId: id })
154:
155:   dispatch({
156:     type: "ADD_TOAST",
157:     toast: {
158:       ...props,
159:       id,
160:       open: true,
161:       onOpenChange: (open) => {
162:         if (!open) dismiss()
163:       },
164:     },
165:   })
166:
167:   return {
168:     id: id,
169:     dismiss,
170:     update,
171:   }
172: }
173:
174: function useToast() {
175:   const [state, setState] = React.useState<State>(memoryState)
176:
177:   React.useEffect(() => {
178:     listeners.push(setState)
179:     return () => {
180:       const index = listeners.indexOf(setState)
181:       if (index > -1) {
182:         listeners.splice(index, 1)
183:       }
184:     }
185:   }, [state])
186:
187:   return {
188:     ...state,
189:     toast,
190:     dismiss: (toastId?: string) => dispatch({ type: "DISMISS_TOAST", toastId }),
191:   }
192: }
193:
194: export { useToast, toast }

```

■ File: libutils.ts

```

1: import { type ClassValue, clsx } from "clsx"
2: import { twMerge } from "tailwind-merge"
3:
4: export function cn(...inputs: ClassValue[]) {
5:   return twMerge(clsx(inputs))
6: }

```

■ File: next-env.d.ts

```

1: /// <reference types="next" />
2: /// <reference types="next/image-types/global" />
3:
4: // NOTE: This file should not be edited
5: // see https://nextjs.org/docs/app/api-reference/config/typescript for more information.

```

■ File: package.json

```
=====
1: {
2:   "name": "my-v0-project",
3:   "version": "0.1.0",
4:   "private": true,
5:   "scripts": {
6:     "build": "next build",
7:     "dev": "next dev",
8:     "lint": "next lint",
9:     "start": "next start"
10:  },
11:  "dependencies": {
12:    "@hello-pangea/dnd": "latest",
13:    "@hookform/resolvers": "^3.9.1",
14:    "@radix-ui/react-accordion": "1.2.2",
15:    "@radix-ui/react-alert-dialog": "1.1.4",
16:    "@radix-ui/react-aspect-ratio": "1.1.1",
17:    "@radix-ui/react-avatar": "1.1.2",
18:    "@radix-ui/react-checkbox": "1.1.3",
19:    "@radix-ui/react-collapsible": "1.1.2",
20:    "@radix-ui/react-context-menu": "2.2.4",
21:    "@radix-ui/react-dialog": "1.1.4",
22:    "@radix-ui/react-dropdown-menu": "2.1.4",
23:    "@radix-ui/react-hover-card": "1.1.4",
24:    "@radix-ui/react-label": "2.1.1",
25:    "@radix-ui/react-menubar": "1.1.4",
26:    "@radix-ui/react-navigation-menu": "1.2.3",
27:    "@radix-ui/react-popover": "1.1.4",
28:    "@radix-ui/react-progress": "1.1.1",
29:    "@radix-ui/react-radio-group": "1.2.2",
30:    "@radix-ui/react-scroll-area": "1.2.2",
31:    "@radix-ui/react-select": "2.1.4",
32:    "@radix-ui/react-separator": "1.1.1",
33:    "@radix-ui/react-slider": "1.2.2",
34:    "@radix-ui/react-slot": "1.1.1",
35:    "@radix-ui/react-switch": "1.1.2",
36:    "@radix-ui/react-tabs": "1.1.2",
37:    "@radix-ui/react-toast": "latest",
38:    "@radix-ui/react-toggle": "1.1.1",
39:    "@radix-ui/react-toggle-group": "1.1.1",
40:    "@radix-ui/react-tooltip": "1.1.6",
41:    "autoprefixer": "^10.4.20",
42:    "class-variance-authority": "^0.7.1",
43:    "clsx": "^2.1.1",
44:    "cmdk": "1.0.4",
45:    "date-fns": "4.1.0",
46:    "embla-carousel-react": "8.5.1",
47:    "fs": "latest",
48:    "immer": "latest",
49:    "input-otp": "1.4.1",
50:    "lucide-react": "^0.454.0",
51:    "next": "15.2.4",
52:    "next-themes": "latest",
53:    "path": "latest",
54:    "react": "^19",
55:    "react-day-picker": "8.10.1",
56:    "react-dom": "^19",
57:    "react-hook-form": "^7.54.1",
58:    "react-resizable-panels": "^2.1.7",
59:    "recharts": "2.15.0",
60:    "sonner": "^1.7.1",
61:    "tailwind-merge": "^2.5.5",
62:    "tailwindcss-animate": "^1.0.7",
63:    "use-sync-external-store": "latest",
64:    "uuid": "latest",
65:    "vaul": "^0.9.6",
66:    "zod": "^3.24.1",
67:    "zustand": "latest"
68:  },
69:  "devDependencies": {
70:    "@types/node": "^22",
71:    "@types/react": "^19",

```



```

72:     "@types/react-dom": "^19",
73:     "postcss": "^8.5",
74:     "tailwindcss": "^3.4.17",
75:     "typescript": "^5"
76:   }
77: }

```

■ File: tailwind.config.ts

```

=====
1: import type { Config } from "tailwindcss";
2:
3: // all in fixtures is set to tailwind v3 as interims solutions
4:
5: const config: Config = {
6:   darkMode: ["class"],
7:   content: [
8:     "./pages/**/*..{js,ts,jsx,tsx,mdx}",
9:     "./components/**/*..{js,ts,jsx,tsx,mdx}",
10:    "./app/**/*..{js,ts,jsx,tsx,mdx}",
11:    "/*.{js,ts,jsx,tsx,mdx}"
12:  ],
13:   theme: {
14:     extend: {
15:       colors: {
16:         background: 'hsl(var(--background))',
17:         foreground: 'hsl(var(--foreground))',
18:         card: {
19:           DEFAULT: 'hsl(var(--card))',
20:           foreground: 'hsl(var(--card-foreground))'
21:         },
22:         popover: {
23:           DEFAULT: 'hsl(var(--popover))',
24:           foreground: 'hsl(var(--popover-foreground))'
25:         },
26:         primary: {
27:           DEFAULT: 'hsl(var(--primary))',
28:           foreground: 'hsl(var(--primary-foreground))'
29:         },
30:         secondary: {
31:           DEFAULT: 'hsl(var(--secondary))',
32:           foreground: 'hsl(var(--secondary-foreground))'
33:         },
34:         muted: {
35:           DEFAULT: 'hsl(var(--muted))',
36:           foreground: 'hsl(var(--muted-foreground))'
37:         },
38:         accent: {
39:           DEFAULT: 'hsl(var(--accent))',
40:           foreground: 'hsl(var(--accent-foreground))'
41:         },
42:         destructive: {
43:           DEFAULT: 'hsl(var(--destructive))',
44:           foreground: 'hsl(var(--destructive-foreground))'
45:         },
46:         border: 'hsl(var(--border))',
47:         input: 'hsl(var(--input))',
48:         ring: 'hsl(var(--ring))',
49:         chart: {
50:           '1': 'hsl(var(--chart-1))',
51:           '2': 'hsl(var(--chart-2))',
52:           '3': 'hsl(var(--chart-3))',
53:           '4': 'hsl(var(--chart-4))',
54:           '5': 'hsl(var(--chart-5))'
55:         },
56:         sidebar: {
57:           DEFAULT: 'hsl(var(--sidebar-background))',
58:           foreground: 'hsl(var(--sidebar-foreground))',
59:           primary: 'hsl(var(--sidebar-primary))',
60:           'primary-foreground': 'hsl(var(--sidebar-primary-foreground))',
61:           accent: 'hsl(var(--sidebar-accent))',
62:           'accent-foreground': 'hsl(var(--sidebar-accent-foreground))',

```

```

63:     border: 'hsl(var(--sidebar-border))',
64:     ring: 'hsl(var(--sidebar-ring))'
65:   },
66:   },
67:   borderRadius: {
68:     lg: 'var(--radius)',
69:     md: 'calc(var(--radius) - 2px)',
70:     sm: 'calc(var(--radius) - 4px)'
71:   },
72:   keyframes: {
73:     'accordion-down': {
74:       from: {
75:         height: '0'
76:       },
77:       to: {
78:         height: 'var(--radix-accordion-content-height)'
79:       }
80:     },
81:     'accordion-up': {
82:       from: {
83:         height: 'var(--radix-accordion-content-height)'
84:       },
85:       to: {
86:         height: '0'
87:       }
88:     }
89:   },
90:   animation: {
91:     'accordion-down': 'accordion-down 0.2s ease-out',
92:     'accordion-up': 'accordion-up 0.2s ease-out'
93:   }
94: },
95: },
96: plugins: [require("tailwindcss-animate")],
97: };
98: export default config;

```

■ File: tsconfig.json

```

=====
1: {
2:   "compilerOptions": {
3:     "lib": ["dom", "dom.iterable", "esnext"],
4:     "allowJs": true,
5:     "target": "ES6",
6:     "skipLibCheck": true,
7:     "strict": true,
8:     "noEmit": true,
9:     "esModuleInterop": true,
10:    "module": "esnext",
11:    "moduleResolution": "bundler",
12:    "resolveJsonModule": true,
13:    "isolatedModules": true,
14:    "jsx": "preserve",
15:    "incremental": true,
16:    "plugins": [
17:      {
18:        "name": "next"
19:      }
20:    ],
21:    "paths": {
22:      "@/*": ["./*"]
23:    }
24:  },
25:  "include": ["next-env.d.ts", "**/*.ts", "**/*.tsx", ".next/types/**/*.ts"],
26:  "exclude": ["node_modules"]
27: }
=====

```

■ File: types\report-types.ts

```
=====
1: // export interface GeneticParameter {
2: //   id: string;
3: //   title: string;
4: //   gene: string;
5: //   snp: string;
6: //   result: string;
7: //   impact: string;
8: //   imageUrl?: string;
9: // }
10:
11: // export interface GeneticCategory {
12: //   id: string;
13: //   category: string;
14: //   parameters: string[];
15: //   imageUrl?: string;
16: //   description?: string;
17: // }
18:
19: export interface GeneticCategory {
20:   id: string;
21:   category: string;
22:   imageUrl: string;
23:   description: string;
24:   parameters: string[];
25:   isActive: boolean;
26:   order: number;
27: }
28:
29:
30: // export interface ReportData {
31: //   categories: CategoryData[];
32: //   geneticParameters: GeneticParameter[];
33: //   metadata?: {
34: //     lastUpdated: string;
35: //     version: string;
36: //     totalCategories: number;
37: //     totalParameters: number;
38: //   };
39: // }
40:
41: // export interface ApiResponse {
42: //   success: boolean;
43: //   data?: ReportData;
44: //   message?: string;
45: //   error?: string;
46: // }
47:
48: export interface PatientInfo {
49:   name: string;
50:   gender: string;
51:   birthDate: string;
52:   sampleCode: string;
53:   sampleDate: string;
54:   reportDate: string;
55:   reportAuth: string;
56:   genomicAnalytics: string;
57:   checkedBy: string;
58:   scientificContent: string;
59:   disclaimer: string;
60:   signature1: string | null;
61:   signature2: string | null;
62: }
63:
64: export interface ReportContent {
65:   introduction: string;
66:   genomicsExplanation: string;
67:   genesHealthImpact: string;
68:   fundamentalsPRS: string;
69:   utilityDoctors: string;
70:   microarrayExplanation: string;
71:   microarrayData: string;
```

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72: }
73:
74: export interface ReportSettings {
75:   title: string;
76:   subtitle: string;
77:   companyName: string;
78:   headerColor: string;
79:   accentColor: string;
80:   fonts: {
81:     primary: string;
82:     secondary: string;
83:     mono: string;
84:   };
85: }
86:
87: export interface GeneticParameter {
88:   title: string;
89:   gene: string;
90:   snp: string;
91:   result: string;
92:   impact: string;
93: }
94:
95: // NEW: Interface for dynamically defined diet analysis fields
96: export interface DynamicDietFieldDefinition {
97:   _uuid: string; // For DND library internal use
98:   id: string; // Unique identifier for the field (e.g., "carbohydrate_sensitivity")
99:   label: string; // Display name (e.g., "Carbohydrate Sensitivity")
100:  category: string; // Category (e.g., "Macronutrients", "Food Sensitivities")
101:  min: number; // Min score for the field
102:  max: number; // Max score for the field
103:  highRecommendation: string; // Recommendation for high score
104:  normalRecommendation: string; // Recommendation for normal score
105:  lowRecommendation: string; // Recommendation for low score
106: }
107:
108: // NEW: Interface for a patient's specific result for a dynamic diet field
109: export interface PatientDietAnalysisResult {
110:   fieldId: string; // References DynamicDietFieldDefinition.id
111:   score: number;
112:   level: string; // e.g., "HIGH", "NORMAL", "LOW", "SUITABLE"
113:   recommendation: string; // Patient-specific recommendation
114: }
115:
116: // OLD DietAnalysis interface is removed.
117: // The data it contained will now be managed via DynamicDietFieldDefinition and PatientDietAnalysisResult.
118:
119: export interface NutrientData {
120:   score: number;
121:   healthImpact: string;
122:   intakeLevel: string;
123:   source: string;
124: }
125:
126: export interface NutritionData {
127:   vitamins: {
128:     vitaminA: NutrientData;
129:     vitaminB12: NutrientData;
130:     vitaminB2: NutrientData;
131:     vitaminB6: NutrientData;
132:     vitaminB9: NutrientData;
133:     vitaminC: NutrientData;
134:     vitaminD: NutrientData;
135:     vitaminE: NutrientData;
136:   };
137:   fattyAcids: {
138:     omegaFattyAcids: NutrientData;
139:   };
140:   elements: {
141:     calcium: NutrientData;
142:     iodine: NutrientData;
143:     iron: NutrientData;
144:     magnesium: NutrientData;

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145:     phosphorus: NutrientData;
146:     selenium: NutrientData;
147:     zinc: NutrientData;
148: };
149: complexNutrients: {
150:     antiInflammatory: NutrientData;
151:     antioxidants: NutrientData;
152: };
153: }
154:
155: export interface ExerciseData {
156:     level: string;
157:     description: string;
158: }
159:
160: export interface SportsAndFitness {
161:     exerciseType: {
162:         endurancePotential: ExerciseData;
163:         powerPotential: ExerciseData;
164:         strengthProfile: ExerciseData;
165:         exerciseTime: ExerciseData;
166:     };
167:     performance: {
168:         enduranceCapacity: ExerciseData;
169:         fatigueResistance: ExerciseData;
170:         bloodFlow: ExerciseData;
171:         oxygenEfficiency: ExerciseData;
172:         waterLoss: ExerciseData;
173:         lactateClearing: ExerciseData;
174:         recoveryEfficiency: ExerciseData;
175:         bodyComposition: ExerciseData;
176:         injuryRisk: ExerciseData;
177:         achillesTendonInjury: ExerciseData;
178:         ligamentInjury: ExerciseData;
179:         rupture: ExerciseData;
180:         muscleCramps: ExerciseData;
181:     };
182: }
183:
184: export interface HealthConditionStatus {
185:     status: "strength" | "improvement";
186: }
187:
188: export interface LifestyleConditions {
189:     heartVascularHealth: {
190:         hypertension: HealthConditionStatus;
191:         leftVentricularHypertrophy: HealthConditionStatus;
192:         atherosclerosis: HealthConditionStatus;
193:         familialHypercholesterolemia: HealthConditionStatus;
194:         cardiomyopathy: HealthConditionStatus;
195:         cholesterolImbalance: HealthConditionStatus;
196:         stroke: HealthConditionStatus;
197:     };
198:     diabetes: {
199:         obesity: HealthConditionStatus;
200:         diabetesType2: HealthConditionStatus;
201:     };
202:     liverHealth: {
203:         nafld: HealthConditionStatus;
204:         liverCirrhosis: HealthConditionStatus;
205:     };
206:     boneHealth: {
207:         osteoporosis: HealthConditionStatus;
208:         osteoarthritis: HealthConditionStatus;
209:     };
210:     gutHealth: {
211:         irritableBowelSyndrome: HealthConditionStatus;
212:         celiacDisease: HealthConditionStatus;
213:     };
214:     hormoneSystem: {
215:         hypothyroidism: HealthConditionStatus;
216:     };
217: }

```

```
218:
219: export interface MetabolicGeneData {
220:   genes: string[];
221:   genotype: string;
222:   impact: string;
223:   advice: string;
224: }
225:
226: export interface MetabolicCore {
227:   methylation: MetabolicGeneData;
228:   inflammation: MetabolicGeneData;
229:   oxidativeStress: MetabolicGeneData;
230:   detoxification: MetabolicGeneData;
231:   vitaminDMetabolism: MetabolicGeneData;
232:   lipidMetabolism: MetabolicGeneData;
233:   insulinResistance: MetabolicGeneData;
234:   circadianRhythm: MetabolicGeneData;
235:   exerciseResponsiveness: MetabolicGeneData;
236:   snackingTendency: MetabolicGeneData;
237:   oestrogenElimination: MetabolicGeneData;
238:   powerVsEndurance: MetabolicGeneData;
239:   injuryRecovery: MetabolicGeneData;
240:   fluidLossTendency: MetabolicGeneData;
241:   vo2Max: MetabolicGeneData;
242: }
243:
244: export interface DigestiveHealthData {
245:   level: string;
246:   description: string;
247: }
248:
249: export interface DigestiveHealth {
250:   gutHealth: DigestiveHealthData;
251:   glutenIntolerance: DigestiveHealthData;
252:   celiacDiseaseTendency: DigestiveHealthData;
253:   impactOnBonesJoints: DigestiveHealthData;
254:   lactoseIntolerance: DigestiveHealthData;
255:   probioticsRequirement: DigestiveHealthData;
256: }
257:
258: export interface AddictionData {
259:   tendency: string;
260:   description: string;
261: }
262:
263: export interface GenesAndAddiction {
264:   alcoholAddiction: AddictionData;
265:   smokingAddiction: AddictionData;
266:   snackingHabits: AddictionData;
267:   altruism: AddictionData;
268: }
269:
270: export interface SleepData {
271:   impact: string;
272:   intervention: string;
273: }
274:
275: export interface SleepAndRest {
276:   sleepCycle: SleepData;
277:   sleepApnea: SleepData;
278:   sleepDepth: SleepData;
279:   stressSensitivity: SleepData;
280: }
281:
282: export interface AllergyData {
283:   tendency: string;
284: }
285:
286: export interface AllergiesAndSensitivity {
287:   dustAllergy: AllergyData;
288:   pesticideSensitivity: AllergyData;
289:   smokeSensitivity: AllergyData;
290:   automobileSmokeSensitivity: AllergyData;
```

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291:   generalAdvice: string;
292: }
293:
294: export interface GeneTestResult {
295:   geneName: string;
296:   variation: string;
297:   result: string;
298: }
299:
300: export interface MetabolicSummary {
301:   strengths: string[];
302:   weaknesses: string[];
303: }
304:
305: export interface PreventiveHealth {
306:   diagnosticTests: {
307:     halfYearly: string[];
308:     yearly: string[];
309:   };
310:   nutritionalSupplements: Array<{
311:     supplement: string;
312:     needed: boolean;
313:   }>;
314: }
315:
316: export interface FamilyGeneticImpact {
317:   gene: string;
318:   normalAlleles: string;
319:   yourResult: string;
320:   healthImpact: string;
321: }
322:
323: export interface ReportSummaries {
324:   nutrigenomicsSummary: string;
325:   exerciseGenomicsSummary: string;
326: }
327:
328: export interface ComprehensiveReportData {
329:   patientInfo: PatientInfo;
330:   content: ReportContent;
331:   settings: ReportSettings;
332:   dynamicDietFieldDefinitions: DynamicDietFieldDefinition[];
333:   patientDietAnalysisResults: PatientDietAnalysisResult[];
334:   nutritionData: NutritionData;
335:   sportsAndFitness: SportsAndFitness;
336:   lifestyleConditions: LifestyleConditions;
337:   metabolicCore: MetabolicCore;
338:   digestiveHealth: DigestiveHealth;
339:   genesAndAddiction: GenesAndAddiction;
340:   sleepAndRest: SleepAndRest;
341:   allergiesAndSensitivity: AllergiesAndSensitivity;
342:   geneTestResults: GeneTestResult[];
343:   geneticParameters: GeneticParameter[];
344:   geneticCategories?: GeneticCategory[];
345:   metabolicSummary: MetabolicSummary;
346:   preventiveHealth: PreventiveHealth;
347:   familyGeneticImpact: FamilyGeneticImpact[];
348:   summaries: ReportSummaries;
349: }

```
