

# ■ TypeScript Project Code Export

## ■ TypeScript/TSX Files & Safe Config:

```
- [TSX] app\admin\page.tsx
- [TS] app\api\comprehensive-report-data\route.ts
- [TS] app\api\nutrition\route.ts
- [TS] app\api\report-data\route.ts
- [TS] app\api\sports-images\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\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",
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:
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72:         "This for informational purposes only and should not be used as a substitute for professional medical
73:     },
74:     content: {
75:         introduction:
76:             "Welcome to your personalized nutrigenomics report. This document provides insights into how your gen
77:         genomicsExplanation:
78:             "Genomics is the study of an organism's complete set of DNA, including all of its genes. It helps us
79:         genesHealthImpact:
80:             "Your genes play a significant role in determining your health predispositions. This report highlight
81:         fundamentalsPRS:
82:             "Polygenic Risk Scores (PRS) combine the effects of many genetic variants to estimate an individual's
83:         utilityDoctors:
84:             "This report is designed to be a valuable tool for doctors and dietitians, providing actionable genet
85:         microarrayExplanation:
86:             "Microarray technology allows for the simultaneous measurement of the expression levels of thousands
87:         microarrayData:
88:             "Your microarray data has been analyzed to identify specific genetic variations relevant to your heal
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.",
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,

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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:
177: patientDietAnalysisResults: [
178:   {
179:     fieldId: "carbohydrate_sensitivity",
180:     score: 1,
181:     level: "LOW",
182:     recommendation: "Ensure adequate carbohydrate intake.",
183:     recommendations: {
184:       LOW: "Ensure adequate carbohydrate intake.",
185:       NORMAL: "Maintain balanced carbohydrate intake.",
186:       HIGH: "Reduce carbohydrate intake, focus on complex carbs.",
187:     },
188:     selectedLevel: "LOW",
189:   },
190:   {
191:     fieldId: "fat_sensitivity",
192:     score: 2,
193:     level: "LOW",
194:     recommendation: "Ensure adequate healthy fat intake.",
195:     recommendations: {
196:       LOW: "Ensure adequate healthy fat intake.",
197:       NORMAL: "Maintain balanced fat intake.",
198:       HIGH: "Reduce saturated and trans fats; focus on healthy fats.",
199:     },
200:     selectedLevel: "LOW",
201:   },
202:   {
203:     fieldId: "protein_requirement",
204:     score: 3,
205:     level: "LOW",
206:     recommendation:
207:       "Consider increasing protein intake for muscle maintenance.",
208:     recommendations: {
209:       LOW: "Consider increasing protein intake for muscle maintenance.",
210:       NORMAL: "Ensure adequate protein intake.",
211:       HIGH: "Increased protein intake recommended.",
212:     },
213:     selectedLevel: "LOW",
214:   },
215:   {
216:     fieldId: "meal_frequency",
217:     score: 4,

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218:     level: "NORMAL",
219:     recommendation: "Maintain regular meal frequency.",
220:     recommendations: {
221:         LOW: "Consider fewer, larger meals.",
222:         NORMAL: "Maintain regular meal frequency.",
223:         HIGH: "Consider smaller, more frequent meals.",
224:     },
225:     selectedLevel: "NORMAL",
226: },
227: {
228:     fieldId: "alcohol_sensitivity",
229:     score: 5,
230:     level: "NORMAL",
231:     recommendation: "Moderate alcohol intake is fine.",
232:     recommendations: {
233:         LOW: "Normal alcohol metabolism.",
234:         NORMAL: "Moderate alcohol intake is fine.",
235:         HIGH: "Limit alcohol consumption due to genetic sensitivity.",
236:     },
237:     selectedLevel: "NORMAL",
238: },
239: {
240:     fieldId: "caffeine_sensitivity",
241:     score: 6,
242:     level: "NORMAL",
243:     recommendation: "Normal caffeine metabolism; moderate intake is fine.",
244:     recommendations: {
245:         LOW: "Fast caffeine metabolism; higher intake may be tolerated.",
246:         NORMAL: "Normal caffeine metabolism; moderate intake is fine.",
247:         HIGH: "Limit caffeine intake due to slow metabolism.",
248:     },
249:     selectedLevel: "NORMAL",
250: },
251: ],
252:
253: dietFieldCategories: [
254:     "Macronutrients",
255:     "Meal Pattern",
256:     "Food Sensitivities",
257:     "Taste Sensitivities",
258: ],
259:
260: nutritionData: {
261:     vitamins: {
262:         vitaminA: {
263:             score: 3,
264:             healthImpact: "Skin & Vision",
265:             intakeLevel: "ENHANCED INTAKE",
266:             source: "DIET",
267:         },
268:         vitaminB12: {
269:             score: 6,
270:             healthImpact: "Nervous System & Bones",
271:             intakeLevel: "ENHANCED INTAKE (METHYLCOBALAMIN)",
272:             source: "DIET",
273:         },
274:         vitaminB2: {
275:             score: 3,
276:             healthImpact: "Energy Metabolism",
277:             intakeLevel: "ENHANCED INTAKE",
278:             source: "DIET",
279:         },
280:         vitaminB6: {
281:             score: 6,
282:             healthImpact: "Tissue growth repair",
283:             intakeLevel: "ENHANCED INTAKE",
284:             source: "DIET",
285:         },
286:         vitaminB9: {
287:             score: 3,
288:             healthImpact: "RBC development & Heart health",
289:             intakeLevel: "ENHANCED INTAKE (L METHYLFOLATE)",
290:             source: "DIET",

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291:     },
292:     vitaminC: {
293:         score: 3,
294:         healthImpact: "Skin & Immunity",
295:         intakeLevel: "ENHANCED INTAKE",
296:         source: "DIET",
297:     },
298:     vitaminD: {
299:         score: 6,
300:         healthImpact: "Bones & Diabetes",
301:         intakeLevel: "ENHANCED INTAKE & SUN EXPOSURE",
302:         source: "DIET & SUN EXPOSURE",
303:     },
304:     vitaminE: {
305:         score: 5,
306:         healthImpact: "Skin & Immune system",
307:         intakeLevel: "ENHANCED INTAKE",
308:         source: "DIET",
309:     },
310: },
311: fattyAcids: {
312:     omegaFattyAcids: {
313:         score: 5,
314:         healthImpact: "Cardiac health & Triglycerides",
315:         intakeLevel: "ENHANCED INTAKE (VEG SOURCES)",
316:         source: "ENHANCED INTAKE (VEG/FISH OIL) & DIET",
317:     },
318: },
319: elements: {
320:     calcium: {
321:         score: 3,
322:         healthImpact: "Bone health & Nerve function",
323:         intakeLevel: "ENHANCED INTAKE",
324:         source: "DIET",
325:     },
326:     iodine: {
327:         score: 3,
328:         healthImpact: "Detoxification & Thyroid hormones",
329:         intakeLevel: "ENHANCED INTAKE",
330:         source: "DIET",
331:     },
332:     iron: {
333:         score: 3,
334:         healthImpact: "Haemoglobin & Energy",
335:         intakeLevel: "RESTRICTED INTAKE",
336:         source: "DIET",
337:     },
338:     magnesium: {
339:         score: 3,
340:         healthImpact: "Heart health & Immunity",
341:         intakeLevel: "ENHANCED INTAKE",
342:         source: "DIET",
343:     },
344:     phosphorus: {
345:         score: 3,
346:         healthImpact: "Bone health & Kidney function",
347:         intakeLevel: "ENHANCED INTAKE",
348:         source: "DIET",
349:     },
350:     selenium: {
351:         score: 3,
352:         healthImpact: "Cognitive & Muscle function",
353:         intakeLevel: "ENHANCED INTAKE",
354:         source: "DIET",
355:     },
356:     zinc: {
357:         score: 3,
358:         healthImpact: "Fertility & Skin",
359:         intakeLevel: "ENHANCED INTAKE",
360:         source: "DIET",
361:     },
362: },
363: complexNutrients: {

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364:     antiInflammatory: {
365:         score: 5,
366:         healthImpact: "Pain control & Organ health",
367:         intakeLevel: "ENHANCED INTAKE",
368:         source: "DIET",
369:     },
370:     antioxidants: {
371:         score: 6,
372:         healthImpact: "Skin & Immune system",
373:         intakeLevel: "ENHANCED INTAKE",
374:         source: "DIET",
375:     },
376: },
377: },
378: sportsAndFitness: {
379:     exerciseType: {
380:         endurancePotential: {
381:             level: "High Endurance Potential",
382:             description:
383:                 "Excellent genetic predisposition for endurance activities",
384:         },
385:         powerPotential: {
386:             level: "Average Power Potential",
387:             description: "Moderate power output capacity",
388:         },
389:         strengthProfile: {
390:             level: "High Strength Profile",
391:             description: "Good potential for strength training",
392:         },
393:         exerciseTime: {
394:             level: "Evening time is more beneficial than morning",
395:             description: "MORNING Vs. EVENING",
396:         },
397:     },
398:     performance: {
399:         enduranceCapacity: {
400:             level: "High Endurance Potential",
401:             description: "Superior aerobic capacity",
402:         },
403:         fatigueResistance: {
404:             level: "Normal fatigue resistance. Average endurance capacity",
405:             description: "Average endurance capacity",
406:         },
407:         bloodFlow: {
408:             level: "Reduced vascular efficiency, affects endurance sports.",
409:             description: "Affects endurance sports",
410:         },
411:         oxygenEfficiency: {
412:             level: "Normal VO2 Max. Need practice to excel in endurance sports",
413:             description: "Need practice to excel",
414:         },
415:         waterLoss: {
416:             level:
417:                 "Increased water and electrolyte loss tendency. Focus on Hydration and electrolyte management dur
418:             description: "Focus on hydration",
419:         },
420:         lactateClearing: {
421:             level: "High lactate clearance. Beneficial for Endurance sports.",
422:             description: "Beneficial for endurance",
423:         },
424:         recoveryEfficiency: {
425:             level:
426:                 "High recovery efficiency. Enhanced sports potential & reduced injury risk",
427:             description: "Enhanced sports potential",
428:         },
429:         bodyComposition: {
430:             level: "Low fat accumulation. Increased muscle tendency.",
431:             description: "Increased muscle tendency",
432:         },
433:         injuryRisk: {
434:             level:
435:                 "High injury tendency. Thorough injury management steps to be taken.",
436:             description: "Thorough injury management needed",

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437:     },
438:     achillesTendonInjury: {
439:         level: "Low injury tendency. Ensure adequate warmup before exercises",
440:         description: "Ensure adequate warmup",
441:     },
442:     ligamentInjury: {
443:         level:
444:             "Low ACL injury tendency. Ensure adequate warmup before exercises",
445:         description: "Ensure adequate warmup",
446:     },
447:     rupture: {
448:         level: "Low rupture tendency. Ensure adequate warmup before exercises",
449:         description: "Ensure adequate warmup",
450:     },
451:     muscleCramps: {
452:         level:
453:             "Low risk of muscle cramps. Ensure adequate warmup before exercises",
454:         description: "Ensure adequate warmup",
455:     },
456: },
457: },
458: lifestyleConditions: {
459:     heartVascularHealth: {
460:         hypertension: { status: "strength" },
461:         leftVentricularHypertrophy: { status: "strength" },
462:         atherosclerosis: { status: "improvement" },
463:         familialHypercholesterolemia: { status: "strength" },
464:         cardiomyopathy: { status: "strength" },
465:         cholesterolImbalance: { status: "improvement" },
466:         stroke: { status: "improvement" },
467:     },
468:     diabetes: {
469:         obesity: { status: "improvement" },
470:         diabetesType2: { status: "improvement" },
471:     },
472:     liverHealth: {
473:         nafld: { status: "improvement" },
474:         liverCirrhosis: { status: "strength" },
475:     },
476:     boneHealth: {
477:         osteoporosis: { status: "improvement" },
478:         osteoarthritis: { status: "improvement" },
479:     },
480:     gutHealth: {
481:         irritableBowelSyndrome: { status: "improvement" },
482:         celiacDisease: { status: "strength" },
483:     },
484:     hormoneSystem: {
485:         hypothyroidism: { status: "improvement" },
486:     },
487: },
488: metabolicCore: {
489:     methylation: {
490:         genes: ["MTHFR"],
491:         genotype: "C/T",
492:         impact: "Reduced folate metabolism",
493:         advice: "Consider L-methylfolate supplementation.",
494:     },
495:     inflammation: {
496:         genes: ["CRP"],
497:         genotype: "G/A",
498:         impact: "Increased inflammatory response",
499:         advice: "Incorporate anti-inflammatory foods.",
500:     },
501:     oxidativeStress: {
502:         genes: ["SOD2"],
503:         genotype: "T/C",
504:         impact: "Reduced antioxidant defense",
505:         advice: "Increase antioxidant-rich foods and supplements.",
506:     },
507:     detoxification: {
508:         genes: ["GSTP1"],
509:         genotype: "A/G",

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510:         impact: "Impaired detoxification capacity",
511:         advice: "Support liver health with cruciferous vegetables.",
512:     },
513:     vitaminDMetabolism: {
514:         genes: ["VDR"],
515:         genotype: "C/C",
516:         impact: "Reduced Vitamin D absorption",
517:         advice: "Ensure adequate Vitamin D intake and sun exposure.",
518:     },
519:     lipidMetabolism: {
520:         genes: ["APOE"],
521:         genotype: "E3/E4",
522:         impact: "Increased LDL cholesterol tendency",
523:         advice: "Monitor lipid levels and follow a heart-healthy diet.",
524:     },
525:     insulinResistance: {
526:         genes: ["TCF7L2"],
527:         genotype: "T/T",
528:         impact: "Higher risk of insulin resistance",
529:         advice: "Focus on low glycemic index foods and regular exercise.",
530:     },
531:     circadianRhythm: {
532:         genes: ["CLOCK"],
533:         genotype: "C/G",
534:         impact: "Altered sleep-wake cycle",
535:         advice:
536:             "Maintain consistent sleep schedule and optimize sleep environment.",
537:     },
538:     exerciseResponsiveness: {
539:         genes: ["ACTN3"],
540:         genotype: "R/X",
541:         impact: "Enhanced power and strength response to training",
542:         advice: "Incorporate strength and power training into routine.",
543:     },
544:     snackingTendency: {
545:         genes: ["FTO"],
546:         genotype: "A/A",
547:         impact: "Increased tendency for snacking and higher BMI",
548:         advice: "Practice mindful eating and portion control.",
549:     },
550:     oestrogenElimination: {
551:         genes: ["COMT"],
552:         genotype: "G/A",
553:         impact: "Slower estrogen elimination",
554:         advice: "Support liver detoxification pathways.",
555:     },
556:     powerVsEndurance: {
557:         genes: ["ACE"],
558:         genotype: "I/D",
559:         impact: "Balanced power and endurance potential",
560:         advice: "Vary training to include both power and endurance exercises.",
561:     },
562:     injuryRecovery: {
563:         genes: ["COL1A1"],
564:         genotype: "G/T",
565:         impact: "Slower collagen repair, increased injury risk",
566:         advice: "Focus on adequate protein and Vitamin C for tissue repair.",
567:     },
568:     fluidLossTendency: {
569:         genes: ["AGT"],
570:         genotype: "T/C",
571:         impact: "Increased fluid and electrolyte loss during exercise",
572:         advice: "Ensure proper hydration and electrolyte replenishment.",
573:     },
574:     vo2Max: {
575:         genes: ["PPARGC1A"],
576:         genotype: "G/G",
577:         impact: "High VO2 Max potential",
578:         advice: "Optimize cardiovascular training for peak performance.",
579:     },
580: },
581:     digestiveHealth: {
582:         gutHealth: {

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583:         level: "NORMAL GUT HEALTH",
584:         description: "Good overall digestive function",
585:     },
586:     glutenIntolerance: {
587:         level: "LOW INTOLERANCE",
588:         description: "CONDITIONAL GLUTEN ELIMINATION NEEDED",
589:     },
590:     celiacDiseaseTendency: {
591:         level: "LOW TENDENCY",
592:         description: "Low genetic risk for celiac disease",
593:     },
594:     impactOnBonesJoints: {
595:         level: "NO IMPACT ON BONE HEALTH",
596:         description: "Digestive health does not affect bone health",
597:     },
598:     lactoseIntolerance: {
599:         level: "HIGH INTOLERANCE",
600:         description: "LACTOSE ELIMINATION NEEDED",
601:     },
602:     probioticsRequirement: {
603:         level: "PROBIOTICS NEEDED",
604:         description: "FOOD & SUPPLEMENTS",
605:     },
606: },
607: genesAndAddiction: {
608:     alcoholAddiction: {
609:         tendency: "LOW",
610:         description: "Low genetic predisposition to alcohol dependency",
611:     },
612:     smokingAddiction: {
613:         tendency: "NORMAL",
614:         description: "Average nicotine addiction susceptibility",
615:     },
616:     snackingHabits: {
617:         tendency: "HIGH",
618:         description: "Genetic tendency toward frequent snacking",
619:     },
620:     altruism: {
621:         tendency: "HIGH",
622:         description: "Strong genetic predisposition toward helping others",
623:     },
624: },
625: sleepAndRest: {
626:     sleepCycle: {
627:         impact: "DELAYED SLEEP CYCLE",
628:         intervention: "EXERCISE IN THE EVENING AVOID CARBS DURING BREAKFAST",
629:     },
630:     sleepApnea: {
631:         impact: "INCREASED CHANCES OF SLEEP APNEA",
632:         intervention: "EXERCISE REGULARLY SEEK MEDICAL ADVICE IF ISSUE PERSISTS",
633:     },
634:     sleepDepth: {
635:         impact: "LOW SLEEP DEPTH",
636:         intervention: "CONSUME CURD RICE IN DINNER FOR BETTER SLEEP",
637:     },
638:     stressSensitivity: {
639:         impact: "LOW STRESS SENSITIVITY",
640:         intervention: "EXERCISE REGULARLY FOR A BETTER SLEEP CYCLE",
641:     },
642: },
643: allergiesAndSensitivity: {
644:     dustAllergy: { tendency: "NORMAL" },
645:     pesticideSensitivity: { tendency: "HIGH" },
646:     smokeSensitivity: { tendency: "HIGH" },
647:     automobileSmokeSensitivity: { tendency: "HIGH" },
648:     generalAdvice:
649:         "THE BEST WAY TO REDUCE ALLERGIES IS TO STAY AWAY FROM THE SOURCE, NO ROCKET SCIENCE HOWEVER THE FOLLOW
650:     },
651: geneTestResults: [
652:     {
653:         geneName: "ALDH2 Aldehyde dehydrogenase 2",
654:         variation: "G>A",
655:         result: "GG",

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656:     },
657:     {
658:         geneName: "MTHFR Methylenetetrahydrofolate reductase",
659:         variation: "C>T",
660:         result: "CT",
661:     },
662: ],
663: metabolicSummary: {
664:     strengths: ["Efficient detoxification", "Normal lipid metabolism"],
665:     weaknesses: [
666:         "Increased oxidative stress",
667:         "Higher risk of insulin resistance",
668:     ],
669: },
670: preventiveHealth: {
671:     diagnosticTests: {
672:         halfYearly: ["PLASMA SUGAR (FASTING & PP)", "VITAMIN D"],
673:         yearly: [
674:             "HbA1c",
675:             "LIPID PROFILE",
676:             "SERUM HOMOCYSTEINE",
677:             "VITAMIN B12",
678:             "LIVER PROFILE",
679:         ],
680:     },
681:     nutritionalSupplements: [
682:         { supplement: "VITAMIN D", needed: true },
683:         { supplement: "METHYL FOLATE + METHYL COBALAMINE + B6", needed: true },
684:         { supplement: "OMEGA FATTY ACIDS (FISH OIL)", needed: true },
685:         { supplement: "FOLIC ACID + COBALAMINE + B6", needed: true },
686:         { supplement: "OMEGA FATTY ACIDS (VEG)", needed: true },
687:         { supplement: "VITAMIN E", needed: true },
688:         { supplement: "PROBIOTICS", needed: true },
689:     ],
690: },
691: familyGeneticImpact: [
692:     {
693:         gene: "MnSOD",
694:         normalAlleles: "AA",
695:         yourResult: "AG",
696:         healthImpact:
697:             "INCREASED TENDENCY OF OXIDATIVE STRESS NEED OF ANTI-OXIDANT SUPPLEMENTS",
698:     },
699:     {
700:         gene: "FTO",
701:         normalAlleles: "TT",
702:         yourResult: "AT",
703:         healthImpact:
704:             "INCREASED TENDENCY OF INSULIN RESISTANCE WEIGHT AND CALORIE MANAGEMENT IMPORTANT TO MANAGE AND REDU
705:     },
706: ],
707: categories: [
708:     {
709:         id: "category_1",
710:         category: "Lipid Metabolism",
711:         imageUrl: "/table/content.png",
712:         description:
713:             "This category includes genes related to lipid metabolism and cardiovascular risk.",
714:         parameters: [
715:             "APOAly",
716:             "APOB",
717:             "LDLR",
718:             "CETP",
719:             "LIPC",
720:             "LPL",
721:             "SCARB1",
722:             "ABCA1",
723:             "PCSK9",
724:             "ANGPTL3",
725:             "ANGPTL4",
726:             "PLTP",
727:             "APOC3",
728:             "APOE",

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729:         "SREBF2",
730:         "HMGCR",
731:         "LCAT",
732:         "CYP7A1",
733:         "PPARA",
734:         "PPARG",
735:         "NR1H3",
736:     ],
737:     isActive: true,
738:     order: 1,
739: },
740: ],
741: geneticParameters: [],
742: metadata: {
743:     lastUpdated: "2025-07-20T12:00:00.000Z",
744:     version: "1.0.0",
745:     totalCategories: 1,
746:     totalParameters: 21,
747: },
748: summaries: {
749:     nutrigenomicsSummary:
750:         "Based on the overall nutrigenomics analysis, provide expert summary for personalized diet and lifestyle",
751:     exerciseGenomicsSummary:
752:         "Based on the overall genomics analysis, provide expert summary for personalized exercise plan...",
753: },
754: });
755:
756: const AdminPage = () => {
757:     const [reportData, setReportData] =
758:         useState<ComprehensiveReportData>(getDefaultReportData);
759:     const { toast } = useToast();
760:
761:     // Load data from API on component mount
762:     useEffect(() => {
763:         const fetchData = async () => {
764:             try {
765:                 const response = await fetch("/api/report-data");
766:                 if (response.ok) {
767:                     const data = await response.json();
768:                     setReportData(data);
769:                     toast({
770:                         description: "Report data has been loaded from the backend.",
771:                         variant: "success",
772:                         duration: 3000,
773:                     });
774:                 } else {
775:                     toast({
776:                         title: "Failed to load data",
777:                         description:
778:                             "Could not load report data from the server. Using default data.",
779:                         variant: "destructive",
780:                         duration: 3000,
781:                     });
782:                 }
783:             } catch (error) {
784:                 console.error("Error fetching report data:", error);
785:                 toast({
786:                     title: "Error fetching data",
787:                     description:
788:                         "An error occurred while fetching data from the server. Using default data.",
789:                     variant: "destructive",
790:                     duration: 3000,
791:                 });
792:             }
793:         };
794:         fetchData();
795:     }, []);
796:
797:     const saveReportData = async () => {
798:         try {
799:             const response = await fetch("/api/report-data", {
800:                 method: "POST",
801:                 headers: {

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802:         "Content-Type": "application/json",
803:     },
804:     body: JSON.stringify(reportData),
805: });
806:
807: if (response.ok) {
808:     toast({
809:         title: "Report data saved!",
810:         description: "Your progress has been saved to the backend.",
811:         variant: "success",
812:         duration: 3000,
813:     });
814: } else {
815:     const errorData = await response.json();
816:     toast({
817:         title: "Failed to save data",
818:         description:
819:             errorData.error || "An error occurred while saving data.",
820:         variant: "destructive",
821:         duration: 3000,
822:     });
823: }
824: } catch (error) {
825:     console.error("Error saving report data:", error);
826:     toast({
827:         title: "Error saving data",
828:         description: "An unexpected error occurred while saving data.",
829:         variant: "destructive",
830:         duration: 3000,
831:     });
832: }
833: };
834:
835: const resetSection = (section: keyof ComprehensiveReportData) => {
836:     setReportData((prev) => {
837:         const defaultData = getDefaultReportData();
838:         return { ...prev, [section]: defaultData[section] };
839:     });
840:     toast({
841:         title: `${section} reset!`,
842:         description: `The ${section} section has been reset to default values.`,
843:         duration: 3000,
844:     });
845: };
846:
847: const updatePatientInfo = (field: keyof PatientInfo, value: string) => {
848:     setReportData((prev) => ({
849:         ...prev,
850:         patientInfo: { ...prev.patientInfo, [field]: value },
851:     }));
852: };
853:
854: const updateReportContent = (field: keyof ReportContent, value: string) => {
855:     setReportData((prev) => ({
856:         ...prev,
857:         content: { ...prev.content, [field]: value },
858:     }));
859: };
860:
861: const updateReportSettings = (field: keyof ReportSettings, value: string) => {
862:     setReportData((prev) => ({
863:         ...prev,
864:         settings: { ...prev.settings, [field]: value },
865:     }));
866: };
867:
868: const updateDynamicDietFieldDefinitions = (
869:     definitions: DynamicDietFieldDefinition[]
870: ) => {
871:     setReportData((prev) => ({
872:         ...prev,
873:         dynamicDietFieldDefinitions: definitions,
874:     }));

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875: };
876:
877: // NEW: Update function for patientDietAnalysisResults
878: const updatePatientDietAnalysisResult = (
879:   fieldId: string,
880:   data: Partial<PatientDietAnalysisResult>
881: ) => {
882:   setReportData((prev) => {
883:     const existingIndex = prev.patientDietAnalysisResults.findIndex(
884:       (r) => r.fieldId === fieldId
885:     );
886:     const newResults = [...prev.patientDietAnalysisResults];
887:
888:     if (existingIndex > -1) {
889:       newResults[existingIndex] = { ...newResults[existingIndex], ...data };
890:     } else {
891:       // If result for this fieldId doesn't exist, create a new one
892:       newResults.push({
893:         fieldId,
894:         score: 0,
895:         level: "NORMAL",
896:         recommendation: "",
897:         ...data,
898:       });
899:     }
900:     return { ...prev, patientDietAnalysisResults: newResults };
901:   });
902: };
903:
904: const updateNutritionData = (
905:   section: keyof NutritionData,
906:   field: string,
907:   data: Partial<NutrientData> | Record<string, NutrientData>
908: ) => {
909:   setReportData((prev) => {
910:     const currentSection = prev.nutritionData?.[section] || {};
911:
912:     let updatedSection;
913:
914:     if (field === "") {
915:       // For delete/rename: replace entire section
916:       updatedSection = data as Record<string, NutrientData>;
917:     } else {
918:       const prevField = currentSection[field] || {};
919:       updatedSection = {
920:         ...currentSection,
921:         [field]: {
922:           ...prevField,
923:           ...data,
924:         },
925:       };
926:     }
927:
928:     return {
929:       ...prev,
930:       nutritionData: {
931:         ...prev.nutritionData,
932:         [section]: updatedSection,
933:       },
934:     };
935:   });
936: };
937:
938: const updateSportsAndFitness = (
939:   section: keyof SportsAndFitness | "customImages",
940:   field: string,
941:   data:
942:     | (Partial<ExerciseData> & { fieldsOverride?: any })
943:     | { label: string; url: string }
944: ) => {
945:   setReportData((prev) => {
946:     const current = prev.sportsAndFitness;
947:

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948:     // ? 0. Handle saving custom image to state
949:     if (section === "customImages") {
950:         const { label, url } = data as { label: string; url: string };
951:         return {
952:             ...prev,
953:             sportsAndFitness: {
954:                 ...current,
955:                 customImages: {
956:                     ...(current.customImages || {}),
957:                     [label]: url,
958:                 },
959:             },
960:         };
961:     }
962:
963:     // ? 1. Add new category
964:     if (!current[section]) {
965:         return {
966:             ...prev,
967:             sportsAndFitness: {
968:                 ...current,
969:                 [section]: [
970:                     {
971:                         title: "New Group",
972:                         fields:
973:                             field === "__init__"
974:                                 ? {}
975:                                 : {
976:                                     [field]: {
977:                                         label: field,
978:                                         level: (data as ExerciseData).level || "",
979:                                         description: (data as ExerciseData).description || "",
980:                                     },
981:                                 },
982:                 ],
983:             },
984:         };
985:     }
986: }
987:
988: // ? 2. Delete category
989: if (field === "__delete_category__") {
990:     const updated = { ...current };
991:     delete updated[section];
992:     return {
993:         ...prev,
994:         sportsAndFitness: updated,
995:     };
996: }
997:
998: // ? 3. Delete field (requires passing `fieldsOverride`)
999: if (field === "__delete_field__" && "fieldsOverride" in data) {
1000:     return {
1001:         ...prev,
1002:         sportsAndFitness: {
1003:             ...current,
1004:             [section]: data.fieldsOverride,
1005:         },
1006:     };
1007: }
1008:
1009: // ? 4. Normal update or add field to first group
1010: const updatedGroups = current[section].map((group, i) => {
1011:     if (group.fields[field]) {
1012:         return {
1013:             ...group,
1014:             fields: {
1015:                 ...group.fields,
1016:                 [field]: {
1017:                     ...group.fields[field],
1018:                     ...(data as ExerciseData),
1019:                 },
1020:             },

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1021:         };
1022:     }
1023:
1024:     if (i === 0) {
1025:         return {
1026:             ...group,
1027:             fields: {
1028:                 ...group.fields,
1029:                 [field]: {
1030:                     label: field,
1031:                     ...(data as ExerciseData),
1032:                 },
1033:             },
1034:         };
1035:     }
1036:
1037:     return group;
1038: });
1039:
1040: return {
1041:     ...prev,
1042:     sportsAndFitness: {
1043:         ...current,
1044:         [section]: updatedGroups,
1045:     },
1046: };
1047: });
1048: };
1049:
1050: const updateLifestyleCondition = (
1051:     section: keyof LifestyleConditions,
1052:     field: string,
1053:     status: HealthConditionStatus["status"]
1054: ) => {
1055:     setReportData((prev) => ({
1056:         ...prev,
1057:         lifestyleConditions: {
1058:             ...prev.lifestyleConditions,
1059:             [section]: {
1060:                 ...prev.lifestyleConditions[section],
1061:                 [field]: {
1062:                     ...prev.lifestyleConditions[section][
1063:                         field as keyof (typeof prev.lifestyleConditions)[typeof section]
1064:                     ],
1065:                     status: status,
1066:                 },
1067:             },
1068:         },
1069:     }));
1070: };
1071:
1072: const updateMetabolicCore = (
1073:     field: keyof MetabolicCore,
1074:     data: Partial<MetabolicGeneData>
1075: ) => {
1076:     setReportData((prev) => ({
1077:         ...prev,
1078:         metabolicCore: {
1079:             ...prev.metabolicCore,
1080:             [field]: {
1081:                 ...prev.metabolicCore[field],
1082:                 ...data,
1083:             },
1084:         },
1085:     }));
1086: };
1087:
1088: const updateDigestiveHealth = (
1089:     field: keyof DigestiveHealth,
1090:     data: Partial<DigestiveHealthData>
1091: ) => {
1092:     setReportData((prev) => ({
1093:         ...prev,

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1094:         digestiveHealth: {
1095:             ...prev.digestiveHealth,
1096:             [field]: {
1097:                 ...prev.digestiveHealth[field],
1098:                 ...data,
1099:             },
1100:         },
1101:     }));
1102: };
1103:
1104: const updateGenesAndAddiction = (
1105:     field: keyof GenesAndAddiction,
1106:     data: Partial<AddictionData>
1107: ) => {
1108:     setReportData((prev) => ({
1109:         ...prev,
1110:         genesAndAddiction: {
1111:             ...prev.genesAndAddiction,
1112:             [field]: {
1113:                 ...prev.genesAndAddiction[field],
1114:                 ...data,
1115:             },
1116:         },
1117:     }));
1118: };
1119:
1120: const updateSleepAndRest = (
1121:     field: keyof SleepAndRest,
1122:     data: Partial<SleepData>
1123: ) => {
1124:     setReportData((prev) => ({
1125:         ...prev,
1126:         sleepAndRest: {
1127:             ...prev.sleepAndRest,
1128:             [field]: {
1129:                 ...prev.sleepAndRest[field],
1130:                 ...data,
1131:             },
1132:         },
1133:     }));
1134: };
1135:
1136: const updateAllergiesAndSensitivity = (
1137:     field: keyof AllergiesAndSensitivity,
1138:     data: Partial<AllergyData> | string
1139: ) => {
1140:     setReportData((prev) => ({
1141:         ...prev,
1142:         allergiesAndSensitivity: {
1143:             ...prev.allergiesAndSensitivity,
1144:             [field]:
1145:                 typeof data === "string"
1146:                 ? data
1147:                 : {
1148:                     ...(prev.allergiesAndSensitivity[
1149:                         field as Exclude<
1150:                             keyof AllergiesAndSensitivity,
1151:                             "generalAdvice"
1152:                         >
1153:                     ] as AllergyData),
1154:                     ...data,
1155:                 },
1156:         },
1157:     }));
1158: };
1159:
1160: const updatePreventiveHealth = (
1161:     section: keyof PreventiveHealth,
1162:     data: any
1163: ) => {
1164:     setReportData((prev) => ({
1165:         ...prev,
1166:         [section]: data,

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1167:     }));
1168: };
1169:
1170: const addFamilyGeneticImpact = () => {
1171:     setReportData((prev) => ({
1172:         ...prev,
1173:         familyGeneticImpact: [
1174:             ...prev.familyGeneticImpact,
1175:             { gene: "", normalAlleles: "", yourResult: "", healthImpact: "" },
1176:         ],
1177:     }));
1178: };
1179:
1180: const updateFamilyGeneticImpact = (
1181:     index: number,
1182:     field: keyof FamilyGeneticImpact,
1183:     value: string
1184: ) => {
1185:     setReportData((prev) => {
1186:         const newImpacts = [...prev.familyGeneticImpact];
1187:         newImpacts[index] = { ...newImpacts[index], [field]: value };
1188:         return { ...prev, familyGeneticImpact: newImpacts };
1189:     });
1190: };
1191:
1192: const removeFamilyGeneticImpact = (index: number) => {
1193:     setReportData((prev) => ({
1194:         ...prev,
1195:         familyGeneticImpact: prev.familyGeneticImpact.filter(
1196:             (_, i) => i !== index
1197:         ),
1198:     }));
1199: };
1200:
1201: const updateGeneTestResult = (
1202:     index: number,
1203:     field: keyof GeneTestResult,
1204:     value: string
1205: ) => {
1206:     setReportData((prev) => {
1207:         const newGeneTests = [...prev.geneTestResults];
1208:         newGeneTests[index] = { ...newGeneTests[index], [field]: value };
1209:         return { ...prev, geneTestResults: newGeneTests };
1210:     });
1211: };
1212:
1213: const addGeneTestResult = () => {
1214:     setReportData((prev) => ({
1215:         ...prev,
1216:         geneTestResults: [
1217:             ...prev.geneTestResults,
1218:             { geneName: "", variation: "", result: "" },
1219:         ],
1220:     }));
1221: };
1222:
1223: const removeGeneTestResult = (index: number) => {
1224:     setReportData((prev) => ({
1225:         ...prev,
1226:         geneTestResults: prev.geneTestResults.filter((_, i) => i !== index),
1227:     }));
1228: };
1229:
1230: const updateReportSummaries = (
1231:     field: keyof ReportSummaries,
1232:     value: string
1233: ) => {
1234:     setReportData((prev) => ({
1235:         ...prev,
1236:         summaries: { ...prev.summaries, [field]: value },
1237:     }));
1238: };
1239:

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1240: return (
1241:   <div className="max-w-7xl mx-auto py-10">
1242:     <h1 className="text-3xl font-bold mb-5">Admin Dashboard</h1>
1243:
1244:     <div className="mb-5 flex flex-col sm:flex-row gap-2 sm:items-center sm:justify-start no-print">
1245:       <Button onClick={saveReportData} className="w-full sm:w-auto">
1246:         Save Data
1247:       </Button>
1248:       <Button
1249:         onClick={() => setReportData(getDefaultReportData())}
1250:         className="w-full sm:w-auto"
1251:       >
1252:         Reset All
1253:       </Button>
1254:     </div>
1255:
1256:     <Tabs defaultValue="patient-info" className="w-full">
1257:       <div className="w-full overflow-x-auto scrollbar-hide">
1258:         <TabsList className="flex gap-2 min-w-max bg-white shadow-sm px-4 py-2 rounded-md border border-gray-200">
1259:           <TabsTrigger value="patient-info">Patient Info</TabsTrigger>
1260:           <TabsTrigger value="content">Content</TabsTrigger>
1261:           <TabsTrigger value="genetic-parameters">
1262:             Table Of Content
1263:           </TabsTrigger>
1264:           <TabsTrigger value="settings">Settings</TabsTrigger>
1265:           <TabsTrigger value="diet-fields">Diet Fields</TabsTrigger>
1266:           <TabsTrigger value="nutrition">Nutrition</TabsTrigger>
1267:           <TabsTrigger value="sports-fitness">Sports & Fitness</TabsTrigger>
1268:           <TabsTrigger value="lifestyle-conditions">Lifestyle</TabsTrigger>
1269:           <TabsTrigger value="metabolic-core">Metabolic Core</TabsTrigger>
1270:           <TabsTrigger value="digestive-health">Digestive Health</TabsTrigger>
1271:           <TabsTrigger value="genes-addiction">Genes & Addiction</TabsTrigger>
1272:           <TabsTrigger value="sleep-rest">Sleep & Rest</TabsTrigger>
1273:           <TabsTrigger value="allergies-sensitivity">Allergies</TabsTrigger>
1274:           <TabsTrigger value="preventive-health">
1275:             Preventive Health
1276:           </TabsTrigger>
1277:           <TabsTrigger value="family-genetic-impact">
1278:             Family Impact
1279:           </TabsTrigger>
1280:           <TabsTrigger value="genes">Gene Results</TabsTrigger>
1281:           <TabsTrigger value="summaries">Summaries</TabsTrigger>
1282:           <TabsTrigger value="pdf-export">PDF Export</TabsTrigger>
1283:           <TabsTrigger value="import-export">Import/Export</TabsTrigger>
1284:         </TabsList>
1285:       </div>
1286:
1287:       <TabsContent className="w-full" value="patient-info">
1288:         <PatientInfoAdmin
1289:           patientInfo={reportData.patientInfo}
1290:           updatePatientInfo={updatePatientInfo}
1291:           onSave={() => saveReportData()}
1292:           onReset={() => resetSection("patientInfo")}
1293:         />
1294:       </TabsContent>
1295:       <TabsContent value="content">
1296:         <ContentAdmin
1297:           content={reportData.content}
1298:           updateContent={updateReportContent}
1299:           onSave={() => saveReportData()}
1300:           onReset={() => resetSection("content")}
1301:         />
1302:       </TabsContent>
1303:
1304:       <TabsContent value="genetic-parameters">
1305:         <GeneticParametersAdmin
1306:           geneticParameters={reportData.geneticParameters}
1307:           updateParameters={({updated}) =>
1308:             setReportData((prev) => ({ ...prev, geneticParameters: updated }))
1309:           }
1310:           onSave={() => saveReportData()}
1311:           onReset={() => resetSection("geneticParameters")}
1312:         />

```

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1313:     </TabsContent>
1314:
1315:     <TabsContent value="settings">
1316:         <SettingsAdmin
1317:             settings={reportData.settings}
1318:             updateSettings={updateReportSettings}
1319:             onSave={() => saveReportData()}
1320:             onReset={() => resetSection("settings")}
1321:         />
1322:     </TabsContent>
1323:
1324:     <TabsContent value="diet-fields">
1325:         { " " }
1326:         { /* Changed tab content value */ }
1327:         <DynamicDietFieldAdmin
1328:             dynamicDietFieldDefinitions={reportData.dynamicDietFieldDefinitions}
1329:             patientDietAnalysisResults={reportData.patientDietAnalysisResults}
1330:             categories={reportData.dietFieldCategories}
1331:             onUpdateCategories={(newCats) =>
1332:                 setReportData((prev) => ({
1333:                     ...prev,
1334:                     dietFieldCategories: newCats,
1335:                 }))
1336:             }
1337:             onUpdateFields={(fields) =>
1338:                 setReportData((prev) => ({
1339:                     ...prev,
1340:                     dynamicDietFieldDefinitions: fields,
1341:                 }))
1342:             }
1343:             onUpdateResults={(results) =>
1344:                 setReportData((prev) => ({
1345:                     ...prev,
1346:                     patientDietAnalysisResults: results,
1347:                 }))
1348:             }
1349:             onSave={saveReportData}
1350:         />
1351:     </TabsContent>
1352:     <TabsContent value="nutrition">
1353:         <NutritionAdmin
1354:             nutritionData={reportData.nutritionData}
1355:             updateNutritionData={updateNutritionData}
1356:             onSave={() => saveReportData()}
1357:             onReset={() => resetSection("nutritionData")}
1358:         />
1359:     </TabsContent>
1360:     <TabsContent value="sports-fitness">
1361:         <SportsFitnessAdmin
1362:             sportsAndFitness={reportData.sportsAndFitness}
1363:             updateSportsAndFitness={updateSportsAndFitness}
1364:             onSave={() => saveReportData()}
1365:             onReset={() => resetSection("sportsAndFitness")}
1366:         />
1367:     </TabsContent>
1368:     <TabsContent value="lifestyle-conditions">
1369:         <LifestyleConditionsAdmin
1370:             lifestyleConditions={reportData.lifestyleConditions}
1371:             updateLifestyleCondition={updateLifestyleCondition}
1372:             onSave={() => saveReportData()}
1373:             onReset={() => resetSection("lifestyleConditions")}
1374:         />
1375:     </TabsContent>
1376:     <TabsContent value="metabolic-core">
1377:         <MetabolicCoreAdmin
1378:             metabolicCore={reportData.metabolicCore}
1379:             updateMetabolicCore={updateMetabolicCore}
1380:             onSave={() => saveReportData()}
1381:             onReset={() => resetSection("metabolicCore")}
1382:         />
1383:     </TabsContent>
1384:     <TabsContent value="digestive-health">
1385:         <DigestiveHealthAdmin

```

```

1386:         digestiveHealth={reportData.digestiveHealth}
1387:         updateDigestiveHealth={updateDigestiveHealth}
1388:         onSave={() => saveReportData()}
1389:         onReset={() => resetSection("digestiveHealth")}
1390:     />
1391: </TabsContent>
1392: <TabsContent value="genes-addiction">
1393:     <GenesAddictionAdmin
1394:         genesAndAddiction={reportData.genesAndAddiction}
1395:         updateGenesAndAddiction={updateGenesAndAddiction}
1396:         onSave={() => saveReportData()}
1397:         onReset={() => resetSection("genesAndAddiction")}
1398:     />
1399: </TabsContent>
1400: <TabsContent value="sleep-rest">
1401:     <SleepRestAdmin
1402:         sleepAndRest={reportData.sleepAndRest}
1403:         updateSleepAndRest={updateSleepAndRest}
1404:         onSave={() => saveReportData()}
1405:         onReset={() => resetSection("sleepAndRest")}
1406:     />
1407: </TabsContent>
1408: <TabsContent value="allergies-sensitivity">
1409:     <AllergiesSensitivityAdmin
1410:         allergiesAndSensitivity={reportData.allergiesAndSensitivity}
1411:         updateAllergiesAndSensitivity={updateAllergiesAndSensitivity}
1412:         onSave={() => saveReportData()}
1413:         onReset={() => resetSection("allergiesAndSensitivity")}
1414:     />
1415: </TabsContent>
1416: <TabsContent value="preventive-health">
1417:     <PreventiveHealthAdmin
1418:         preventiveHealth={reportData.preventiveHealth}
1419:         updatePreventiveHealth={updatePreventiveHealth}
1420:         onSave={() => saveReportData()}
1421:         onReset={() => resetSection("preventiveHealth")}
1422:     />
1423: </TabsContent>
1424: <TabsContent value="family-genetic-impact">
1425:     <FamilyGeneticImpactAdmin
1426:         familyGeneticImpact={reportData.familyGeneticImpact}
1427:         addFamilyGeneticImpact={addFamilyGeneticImpact}
1428:         updateFamilyGeneticImpact={updateFamilyGeneticImpact}
1429:         removeFamilyGeneticImpact={removeFamilyGeneticImpact}
1430:         onSave={() => saveReportData()}
1431:         onReset={() => resetSection("familyGeneticImpact")}
1432:     />
1433: </TabsContent>
1434: <TabsContent value="genes">
1435:     <GeneResultsAdmin
1436:         geneTestResults={reportData.geneTestResults}
1437:         updateGeneTestResult={updateGeneTestResult}
1438:         addGeneTestResult={addGeneTestResult}
1439:         removeGeneTestResult={removeGeneTestResult}
1440:         onSave={() => saveReportData()}
1441:         onReset={() => resetSection("geneTestResults")}
1442:     />
1443: </TabsContent>
1444: <TabsContent value="summaries">
1445:     <SummariesAdmin
1446:         summaries={reportData.summaries}
1447:         updateSummaries={updateReportSummaries}
1448:         onSave={() => saveReportData()}
1449:         onReset={() => resetSection("summaries")}
1450:     />
1451: </TabsContent>
1452: <TabsContent value="pdf-export">
1453:     <PDFGenerator reportData={reportData} />
1454: </TabsContent>
1455: <TabsContent value="import-export">
1456:     <ImportExportAdmin
1457:         reportData={reportData}
1458:         setReportData={setReportData}

```

```

1459:         />
1460:     </TabsContent>
1461: </Tabs>
1462: </div>
1463: );
1464: };
1465:
1466: 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\nutrition\route.ts

```

1: import fs from "fs";
2: import path from "path";
3: import { NextRequest, NextResponse } from "next/server";
4:
5: const filePath = path.join(process.cwd(), "data", "report-data.json");
6:
7: export async function GET() {
8:   const fileContents = fs.readFileSync(filePath, "utf-8");
9:   const reportData = JSON.parse(fileContents);
10:  return NextResponse.json(reportData.nutritionData);
11: }
12:
13: export async function PUT(req: NextRequest) {
14:   try {
15:     const newNutritionData = await req.json();
16:
17:     const fileContents = fs.readFileSync(filePath, "utf-8");
18:     const reportData = JSON.parse(fileContents);
19:
20:     reportData.nutritionData = newNutritionData;
21:
22:     fs.writeFileSync(filePath, JSON.stringify(reportData, null, 2));
23:
24:     return NextResponse.json({ success: true });
25:   } catch (err) {
26:     console.error("Failed to update nutrition data:", err);
27:     return new NextResponse("Failed to save", { status: 500 });
28:   }
29: }

```

## ■ 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.",
24:     signature1: "",
25:     signature2: "",
26:   },
27:   content: {
28:     introduction:
29:       "Welcome to your personalized nutrigenomics report. This document provides insights into how your genome influences your health.",
30:     genomicsExplanation:
31:       "Genomics is the study of an organism's complete set of DNA, including all of its genes. It helps us understand the genetic basis of various traits and diseases.",
32:     genesHealthImpact:
33:       "Your genes play a significant role in determining your health predispositions. This report highlights key genetic markers and their potential impact on your health.",
34:     fundamentalsPRS:
35:       "Polygenic Risk Scores (PRS) combine the effects of many genetic variants to estimate an individual's risk for certain complex diseases.",
36:     utilityDoctors:
37:       "This report is designed to be a valuable tool for doctors and dietitians, providing actionable genetic insights to inform personalized medical and nutritional recommendations.",
38:     microarrayExplanation:
39:       "Microarray technology allows for the simultaneous measurement of the expression levels of thousands of genes, providing a comprehensive view of gene activity.",
40:     microarrayData:
41:       "Your microarray data has been analyzed to identify specific genetic variations relevant to your health and disease risk.",
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:
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: 1,
134:         level: "LOW",
135:         recommendation: "Ensure adequate carbohydrate intake.",
136:         recommendations: {
137:             LOW: "Ensure adequate carbohydrate intake.",
138:             NORMAL: "Maintain balanced carbohydrate intake.",
139:             HIGH: "Reduce carbohydrate intake, focus on complex carbs.",
140:         },
141:         selectedLevel: "LOW",
142:     },
143:     {
144:         fieldId: "fat_sensitivity",

```

```

145:     score: 2,
146:     level: "LOW",
147:     recommendation: "Ensure adequate healthy fat intake.",
148:     recommendations: {
149:         LOW: "Ensure adequate healthy fat intake.",
150:         NORMAL: "Maintain balanced fat intake.",
151:         HIGH: "Reduce saturated and trans fats; focus on healthy fats.",
152:     },
153:     selectedLevel: "LOW",
154: },
155: {
156:     fieldId: "protein_requirement",
157:     score: 3,
158:     level: "LOW",
159:     recommendation:
160:         "Consider increasing protein intake for muscle maintenance.",
161:     recommendations: {
162:         LOW: "Consider increasing protein intake for muscle maintenance.",
163:         NORMAL: "Ensure adequate protein intake.",
164:         HIGH: "Increased protein intake recommended.",
165:     },
166:     selectedLevel: "LOW",
167: },
168: {
169:     fieldId: "meal_frequency",
170:     score: 4,
171:     level: "NORMAL",
172:     recommendation: "Maintain regular meal frequency.",
173:     recommendations: {
174:         LOW: "Consider fewer, larger meals.",
175:         NORMAL: "Maintain regular meal frequency.",
176:         HIGH: "Consider smaller, more frequent meals.",
177:     },
178:     selectedLevel: "NORMAL",
179: },
180: {
181:     fieldId: "alcohol_sensitivity",
182:     score: 5,
183:     level: "NORMAL",
184:     recommendation: "Moderate alcohol intake is fine.",
185:     recommendations: {
186:         LOW: "Normal alcohol metabolism.",
187:         NORMAL: "Moderate alcohol intake is fine.",
188:         HIGH: "Limit alcohol consumption due to genetic sensitivity.",
189:     },
190:     selectedLevel: "NORMAL",
191: },
192: {
193:     fieldId: "caffeine_sensitivity",
194:     score: 6,
195:     level: "NORMAL",
196:     recommendation: "Normal caffeine metabolism; moderate intake is fine.",
197:     recommendations: {
198:         LOW: "Fast caffeine metabolism; higher intake may be tolerated.",
199:         NORMAL: "Normal caffeine metabolism; moderate intake is fine.",
200:         HIGH: "Limit caffeine intake due to slow metabolism.",
201:     },
202:     selectedLevel: "NORMAL",
203: },
204: ],
205: nutritionData: {
206:     vitamins: {
207:         vitaminA: {
208:             score: 3,
209:             healthImpact: "Skin & Vision",
210:             intakeLevel: "ENHANCED INTAKE",
211:             source: "DIET",
212:         },
213:         vitaminB12: {
214:             score: 6,
215:             healthImpact: "Nervous System & Bones",
216:             intakeLevel: "ENHANCED INTAKE (METHYLCOBALAMIN)",
217:             source: "DIET",

```

```

218:     },
219:     vitaminB2: {
220:         score: 3,
221:         healthImpact: "Energy Metabolism",
222:         intakeLevel: "ENHANCED INTAKE",
223:         source: "DIET",
224:     },
225:     vitaminB6: {
226:         score: 6,
227:         healthImpact: "Tissue growth repair",
228:         intakeLevel: "ENHANCED INTAKE",
229:         source: "DIET",
230:     },
231:     vitaminB9: {
232:         score: 3,
233:         healthImpact: "RBC development & Heart health",
234:         intakeLevel: "ENHANCED INTAKE (L METHYLFOLATE)",
235:         source: "DIET",
236:     },
237:     vitaminC: {
238:         score: 3,
239:         healthImpact: "Skin & Immunity",
240:         intakeLevel: "ENHANCED INTAKE",
241:         source: "DIET",
242:     },
243:     vitaminD: {
244:         score: 6,
245:         healthImpact: "Bones & Diabetes",
246:         intakeLevel: "ENHANCED INTAKE & SUN EXPOSURE",
247:         source: "DIET & SUN EXPOSURE",
248:     },
249:     vitaminE: {
250:         score: 5,
251:         healthImpact: "Skin & Immune system",
252:         intakeLevel: "ENHANCED INTAKE",
253:         source: "DIET",
254:     },
255: },
256: fattyAcids: {
257:     omegaFattyAcids: {
258:         score: 5,
259:         healthImpact: "Cardiac health & Triglycerides",
260:         intakeLevel: "ENHANCED INTAKE (VEG SOURCES)",
261:         source: "ENHANCED INTAKE (VEG/FISH OIL) & DIET",
262:     },
263: },
264: elements: {
265:     calcium: {
266:         score: 3,
267:         healthImpact: "Bone health & Nerve function",
268:         intakeLevel: "ENHANCED INTAKE",
269:         source: "DIET",
270:     },
271:     iodine: {
272:         score: 3,
273:         healthImpact: "Detoxification & Thyroid hormones",
274:         intakeLevel: "ENHANCED INTAKE",
275:         source: "DIET",
276:     },
277:     iron: {
278:         score: 3,
279:         healthImpact: "Haemoglobin & Energy",
280:         intakeLevel: "RESTRICTED INTAKE",
281:         source: "DIET",
282:     },
283:     magnesium: {
284:         score: 3,
285:         healthImpact: "Heart health & Immunity",
286:         intakeLevel: "ENHANCED INTAKE",
287:         source: "DIET",
288:     },
289:     phosphorus: {
290:         score: 3,

```

```

291:         healthImpact: "Bone health & Kidney function",
292:         intakeLevel: "ENHANCED INTAKE",
293:         source: "DIET",
294:     },
295:     selenium: {
296:         score: 3,
297:         healthImpact: "Cognitive & Muscle function",
298:         intakeLevel: "ENHANCED INTAKE",
299:         source: "DIET",
300:     },
301:     zinc: {
302:         score: 3,
303:         healthImpact: "Fertility & Skin",
304:         intakeLevel: "ENHANCED INTAKE",
305:         source: "DIET",
306:     },
307: },
308: complexNutrients: {
309:     antiInflammatory: {
310:         score: 5,
311:         healthImpact: "Pain control & Organ health",
312:         intakeLevel: "ENHANCED INTAKE",
313:         source: "DIET",
314:     },
315:     antioxidants: {
316:         score: 6,
317:         healthImpact: "Skin & Immune system",
318:         intakeLevel: "ENHANCED INTAKE",
319:         source: "DIET",
320:     },
321: },
322: },
323: sportsAndFitness: {
324:     exerciseType: [
325:         {
326:             title: "EXERCISE TYPE",
327:             fields: {
328:                 endurancePotential: {
329:                     label: "ENDURANCE POTENTIAL",
330:                     level: "1753505450705-low",
331:                     description:
332:                         "Excellent genetic predisposition for endurance activities",
333:                 },
334:                 powerPotential: {
335:                     label: "POWER POTENTIAL",
336:                     level: "1753505450705-low",
337:                     description: "Moderate power output",
338:                 },
339:                 strengthProfile: {
340:                     label: "STRENGTH PROFILE",
341:                     level: "1753505450705-low",
342:                     description: "Good potential for strength training",
343:                 },
344:                 exerciseTime: {
345:                     label: "EXERCISE TIME",
346:                     level: "1753505450705-low",
347:                     description: "MORNING Vs. EVENING",
348:                 },
349:             },
350:         },
351:     ],
352:     performance: [
353:         {
354:             title: "ENDURANCE EXERCISE",
355:             fields: {
356:                 enduranceCapacity: {
357:                     label: "ENDURANCE CAPACITY",
358:                     level: "1753505464721-high",
359:                     description: "Superior aerobic capacity",
360:                 },
361:                 fatigueResistance: {
362:                     label: "FATIGUE RESISTANCE",
363:                     level: "1753505494207-average",

```

```

364:         description: "Average endurance capacity",
365:     },
366:     bloodFlow: {
367:         label: "BLOOD FLOW",
368:         level: "1753505513164-normal",
369:         description: "Affects endurance sports",
370:     },
371:     oxygenEfficiency: {
372:         label: "OXYGEN / VO2 MAX",
373:         level: "1753505544944-enhanced",
374:         description: "Need practice to excel",
375:     },
376:     waterLoss: {
377:         label: "WATER LOSS",
378:         level: "1753505570463-free",
379:         description: "Focus on hydration",
380:     },
381:     lactateClearing: {
382:         label: "lactateClearing",
383:         level: "1753505570463-free",
384:         description: "jj",
385:     },
386:     recoveryEfficiency: {
387:         label: "recoveryEfficiency",
388:         level: "1753505494207-average",
389:         description: "jj",
390:     },
391:     bodyComposition: {
392:         label: "bodyComposition",
393:         level: "1753505464721-high",
394:         description: "mm",
395:     },
396:     injuryRisk: {
397:         label: "injuryRisk",
398:         level: "1753505494207-average",
399:         description: "m",
400:     },
401:     achillesTendonInjury: {
402:         label: "achillesTendonInjury",
403:         level: "1753505513164-normal",
404:         description: "m",
405:     },
406:     ligamentInjury: {
407:         label: "ligamentInjury",
408:         level: "1753505494207-average",
409:         description: "j",
410:     },
411:     rupture: {
412:         label: "rupture",
413:         level: "1753505570463-free",
414:         description: "ll",
415:     },
416:     muscleCramps: {
417:         label: "muscleCramps",
418:         level: "1753505513164-normal",
419:         description: "n",
420:     },
421: },
422: },
423: {
424:     title: "RECOVERY",
425:     fields: {
426:         lactateClearing: {
427:             label: "LACTATE CLEARANCE",
428:             level: "1753505570463-free",
429:             description: "Beneficial for endurance",
430:         },
431:         recoveryEfficiency: {
432:             label: "RECOVERY EFFICIENCY",
433:             level: "1753505494207-average",
434:             description: "jj",
435:         },
436:     },

```

```

437:     },
438:     {
439:         title: "INJURY MANAGEMENT",
440:         fields: {
441:             bodyComposition: {
442:                 label: "BODY COMPOSITION",
443:                 level: "1753505464721-high",
444:                 description: "mm",
445:             },
446:             injuryRisk: {
447:                 label: "INJURY RISK",
448:                 level: "1753505494207-average",
449:                 description: "m",
450:             },
451:             achillesTendonInjury: {
452:                 label: "ACHILLES TENDON INJURY",
453:                 level: "1753505513164-normal",
454:                 description: "m",
455:             },
456:             ligamentInjury: {
457:                 label: "ANTERIOR CRUCIATE LIGAMENT (ACL)",
458:                 level: "1753505494207-average",
459:                 description: "j",
460:             },
461:             rupture: {
462:                 label: "RUPTURE",
463:                 level: "1753505570463-free",
464:                 description: "ll",
465:             },
466:             muscleCramps: {
467:                 label: "MUSCLE CRAMPS",
468:                 level: "1753505513164-normal",
469:                 description: "n",
470:             },
471:         },
472:     },
473: ],
474: customImages: {
475:     momo: "/table/1753467176414-Github.png",
476:     dumbbell: "/sports/1753468294633-student-alt.png",
477:     mimi: "/sports/1753497651258-image.png",
478:     mmmmmmmmmmm: "/sports/1753497681115-phone.png",
479:     micro: "/sports/1753502005130-Github.png",
480:     lololo: "/sports/1753502079783-phone.png",
481:     free: "/sports/1753502631564-free.png",
482:     low: "/sports/1753505450705-low.png",
483:     high: "/sports/1753505464721-high.png",
484:     average: "/sports/1753505494207-average.png",
485:     normal: "/sports/1753505513164-normal.png",
486:     enhanced: "/sports/1753505544944-enhanced.png",
487:     demo: "/sports/1753505570463-free.png",
488: },
489: },
490: lifestyleConditions: {
491:     heartVascularHealth: {
492:         hypertension: { status: "strength" },
493:         leftVentricularHypertrophy: { status: "strength" },
494:         atherosclerosis: { status: "improvement" },
495:         familialHypercholesterolemia: { status: "strength" },
496:         cardiomyopathy: { status: "strength" },
497:         cholesterolImbalance: { status: "improvement" },
498:         stroke: { status: "improvement" },
499:     },
500:     diabetes: {
501:         obesity: { status: "improvement" },
502:         diabetesType2: { status: "improvement" },
503:     },
504:     liverHealth: {
505:         nafld: { status: "improvement" },
506:         liverCirrhosis: { status: "strength" },
507:     },
508:     boneHealth: {
509:         osteoporosis: { status: "improvement" },

```

```

510:         osteoarthritis: { status: "improvement" },
511:     },
512:     gutHealth: {
513:         irritableBowelSyndrome: { status: "improvement" },
514:         celiacDisease: { status: "strength" },
515:     },
516:     hormoneSystem: {
517:         hypothyroidism: { status: "improvement" },
518:     },
519: },
520: metabolicCore: {
521:     methylation: {
522:         genes: ["MTHFR"],
523:         genotype: "C/T",
524:         impact: "Reduced folate metabolism",
525:         advice: "Consider L-methylfolate supplementation.",
526:     },
527:     inflammation: {
528:         genes: ["CRP"],
529:         genotype: "G/A",
530:         impact: "Increased inflammatory response",
531:         advice: "Incorporate anti-inflammatory foods.",
532:     },
533:     oxidativeStress: {
534:         genes: ["SOD2"],
535:         genotype: "T/C",
536:         impact: "Reduced antioxidant defense",
537:         advice: "Increase antioxidant-rich foods and supplements.",
538:     },
539:     detoxification: {
540:         genes: ["GSTP1"],
541:         genotype: "A/G",
542:         impact: "Impaired detoxification capacity",
543:         advice: "Support liver health with cruciferous vegetables.",
544:     },
545:     vitaminDMetabolism: {
546:         genes: ["VDR"],
547:         genotype: "C/C",
548:         impact: "Reduced Vitamin D absorption",
549:         advice: "Ensure adequate Vitamin D intake and sun exposure.",
550:     },
551:     lipidMetabolism: {
552:         genes: ["APOE"],
553:         genotype: "E3/E4",
554:         impact: "Increased LDL cholesterol tendency",
555:         advice: "Monitor lipid levels and follow a heart-healthy diet.",
556:     },
557:     insulinResistance: {
558:         genes: ["TCF7L2"],
559:         genotype: "T/T",
560:         impact: "Higher risk of insulin resistance",
561:         advice: "Focus on low glycemic index foods and regular exercise.",
562:     },
563:     circadianRhythm: {
564:         genes: ["CLOCK"],
565:         genotype: "C/G",
566:         impact: "Altered sleep-wake cycle",
567:         advice:
568:             "Maintain consistent sleep schedule and optimize sleep environment.",
569:     },
570:     exerciseResponsiveness: {
571:         genes: ["ACTN3"],
572:         genotype: "R/X",
573:         impact: "Enhanced power and strength response to training",
574:         advice: "Incorporate strength and power training into routine.",
575:     },
576:     snackingTendency: {
577:         genes: ["FTO"],
578:         genotype: "A/A",
579:         impact: "Increased tendency for snacking and higher BMI",
580:         advice: "Practice mindful eating and portion control.",
581:     },
582:     oestrogenElimination: {

```

```

583:     genes: ["COMT"],
584:     genotype: "G/A",
585:     impact: "Slower estrogen elimination",
586:     advice: "Support liver detoxification pathways.",
587: },
588: powerVsEndurance: {
589:     genes: ["ACE"],
590:     genotype: "I/D",
591:     impact: "Balanced power and endurance potential",
592:     advice: "Vary training to include both power and endurance exercises.",
593: },
594: injuryRecovery: {
595:     genes: ["COL1A1"],
596:     genotype: "G/T",
597:     impact: "Slower collagen repair, increased injury risk",
598:     advice: "Focus on adequate protein and Vitamin C for tissue repair.",
599: },
600: fluidLossTendency: {
601:     genes: ["AGT"],
602:     genotype: "T/C",
603:     impact: "Increased fluid and electrolyte loss during exercise",
604:     advice: "Ensure proper hydration and electrolyte replenishment.",
605: },
606: vo2Max: {
607:     genes: ["PPARGC1A"],
608:     genotype: "G/G",
609:     impact: "High VO2 Max potential",
610:     advice: "Optimize cardiovascular training for peak performance.",
611: },
612: },
613: digestiveHealth: {
614:     gutHealth: {
615:         level: "NORMAL GUT HEALTH",
616:         description: "Good overall digestive function",
617:     },
618:     glutenIntolerance: {
619:         level: "LOW INTOLERANCE",
620:         description: "CONDITIONAL GLUTEN ELIMINATION NEEDED",
621:     },
622:     celiacDiseaseTendency: {
623:         level: "LOW TENDENCY",
624:         description: "Low genetic risk for celiac disease",
625:     },
626:     impactOnBonesJoints: {
627:         level: "NO IMPACT ON BONE HEALTH",
628:         description: "Digestive health does not affect bone health",
629:     },
630:     lactoseIntolerance: {
631:         level: "HIGH INTOLERANCE",
632:         description: "LACTOSE ELIMINATION NEEDED",
633:     },
634:     probioticsRequirement: {
635:         level: "PROBIOTICS NEEDED",
636:         description: "FOOD & SUPPLEMENTS",
637:     },
638: },
639: genesAndAddiction: {
640:     alcoholAddiction: {
641:         tendency: "LOW",
642:         description: "Low genetic predisposition to alcohol dependency",
643:     },
644:     smokingAddiction: {
645:         tendency: "NORMAL",
646:         description: "Average nicotine addiction susceptibility",
647:     },
648:     snackingHabits: {
649:         tendency: "HIGH",
650:         description: "Genetic tendency toward frequent snacking",
651:     },
652:     altruism: {
653:         tendency: "HIGH",
654:         description: "Strong genetic predisposition toward helping others",
655:     },

```



```

656: },
657: sleepAndRest: {
658:   sleepCycle: {
659:     impact: "DELAYED SLEEP CYCLE",
660:     intervention: "EXERCISE IN THE EVENING AVOID CARBS DURING BREAKFAST",
661:   },
662:   sleepApnea: {
663:     impact: "INCREASED CHANCES OF SLEEP APNEA",
664:     intervention: "EXERCISE REGULARLY SEEK MEDICAL ADVICE IF ISSUE PERSISTS",
665:   },
666:   sleepDepth: {
667:     impact: "LOW SLEEP DEPTH",
668:     intervention: "CONSUME CURD RICE IN DINNER FOR BETTER SLEEP",
669:   },
670:   stressSensitivity: {
671:     impact: "LOW STRESS SENSITIVITY",
672:     intervention: "EXERCISE REGULARLY FOR A BETTER SLEEP CYCLE",
673:   },
674: },
675: allergiesAndSensitivity: {
676:   dustAllergy: { tendency: "NORMAL" },
677:   pesticideSensitivity: { tendency: "HIGH" },
678:   smokeSensitivity: { tendency: "HIGH" },
679:   automobileSmokeSensitivity: { tendency: "HIGH" },
680:   generalAdvice:
681:     "THE BEST WAY TO REDUCE ALLERGIES IS TO STAY AWAY FROM THE SOURCE, NO ROCKET SCIENCE HOWEVER THE FOLLOWING",
682: },
683: geneTestResults: [
684:   {
685:     geneName: "ALDH2 Aldehyde dehydrogenase 2",
686:     variation: "G>A",
687:     result: "GG",
688:   },
689:   {
690:     geneName: "MTHFR Methylenetetrahydrofolate reductase",
691:     variation: "C>T",
692:     result: "CT",
693:   },
694: ],
695: metabolicSummary: {
696:   strengths: ["Efficient detoxification", "Normal lipid metabolism"],
697:   weaknesses: [
698:     "Increased oxidative stress",
699:     "Higher risk of insulin resistance",
700:   ],
701: },
702: preventiveHealth: {
703:   diagnosticTests: {
704:     halfYearly: ["PLASMA SUGAR (FASTING & PP)", "VITAMIN D"],
705:     yearly: [
706:       "HbA1c",
707:       "LIPID PROFILE",
708:       "SERUM HOMOCYSTEINE",
709:       "VITAMIN B12",
710:       "LIVER PROFILE",
711:     ],
712:   },
713:   nutritionalSupplements: [
714:     { supplement: "VITAMIN D", needed: true },
715:     { supplement: "METHYL FOLATE + METHYL COBALAMINE + B6", needed: true },
716:     { supplement: "OMEGA FATTY ACIDS (FISH OIL)", needed: true },
717:     { supplement: "FOLIC ACID + COBALAMINE + B6", needed: true },
718:     { supplement: "OMEGA FATTY ACIDS (VEG)", needed: true },
719:     { supplement: "VITAMIN E", needed: true },
720:     { supplement: "PROBIOTICS", needed: true },
721:   ],
722: },
723: familyGeneticImpact: [
724:   {
725:     gene: "MnSOD",
726:     normalAlleles: "AA",
727:     yourResult: "AG",
728:     healthImpact:

```

```

729:         "INCREASED TENDENCY OF OXIDATIVE STRESS NEED OF ANTI-OXIDANT SUPPLEMENTS",
730:     },
731:     {
732:         gene: "FTO",
733:         normalAlleles: "TT",
734:         yourResult: "AT",
735:         healthImpact:
736:             "INCREASED TENDENCY OF INSULIN RESISTANCE WEIGHT AND CALORIE MANAGEMENT IMPORTANT TO MANAGE AND REDU",
737:     },
738: ],
739: categories: [
740:     {
741:         id: "category_1",
742:         category: "Lipid Metabolism",
743:         imageUrl: "/table/content.png",
744:         description:
745:             "This category includes genes related to lipid metabolism and cardiovascular risk.",
746:         parameters: [
747:             "APOA1",
748:             "APOB",
749:             "LDLR",
750:             "CETP",
751:             "LIPC",
752:             "LPL",
753:             "SCARB1",
754:             "ABCA1",
755:             "PCSK9",
756:             "ANGPTL3",
757:             "ANGPTL4",
758:             "PLTP",
759:             "APOC3",
760:             "APOE",
761:             "SREBF2",
762:             "HMGCR",
763:             "LCAT",
764:             "CYP7A1",
765:             "PPARA",
766:             "PPARG",
767:             "NR1H3",
768:         ],
769:         isActive: true,
770:         order: 1,
771:     },
772: ],
773: geneticParameters: [],
774: metadata: {
775:     lastUpdated: "2025-07-20T12:00:00.000Z",
776:     version: "1.0.0",
777:     totalCategories: 1,
778:     totalParameters: 21,
779: },
780:
781: summaries: {
782:     nutrigenomicsSummary:
783:         "Based on the overall nutrigenomics analysis, provide expert summary for personalized diet and lifestyle",
784:     exerciseGenomicsSummary:
785:         "Based on the overall genomics analysis, provide expert summary for personalized exercise plan...",
786: },
787: };
788:
789: export async function GET() {
790:     try {
791:         // Ensure the data directory exists
792:         const dataDir = path.dirname(dataFilePath);
793:         await fs.mkdir(dataDir, { recursive: true });
794:
795:         let data: ComprehensiveReportData;
796:
797:         try {
798:             const fileContent = await fs.readFile(dataFilePath, "utf-8");
799:             data = JSON.parse(fileContent);
800:         } catch (readError: any) {
801:             if (readError.code === "ENOENT") {

```

```

802:         // File does not exist, initialize with default data
803:         data = defaultReportData;
804:         await fs.writeFile(
805:             dataFilePath,
806:             JSON.stringify(data, null, 2),
807:             "utf-8"
808:         );
809:     } else {
810:         // Other read errors
811:         console.error("Error reading report data file:", readError);
812:         return NextResponse.json(
813:             { error: "Failed to read report data" },
814:             { status: 500 }
815:         );
816:     }
817: }
818:
819: return NextResponse.json(data);
820: } catch (error) {
821:     console.error("Error in GET /api/report-data:", error);
822:     return NextResponse.json(
823:         { error: "Internal Server Error" },
824:         { status: 500 }
825:     );
826: }
827: }
828:
829: export async function POST(request: Request) {
830:     try {
831:         const data: ComprehensiveReportData = await request.json();
832:
833:         // Basic validation (can be expanded)
834:         if (!data || !data.patientInfo || !data.content) {
835:             return NextResponse.json(
836:                 { error: "Invalid report data provided" },
837:                 { status: 400 }
838:             );
839:         }
840:
841:         // Ensure the data directory exists
842:         const dataDir = path.dirname(dataFilePath);
843:         await fs.mkdir(dataDir, { recursive: true });
844:
845:         await fs.writeFile(dataFilePath, JSON.stringify(data, null, 2), "utf-8");
846:         return NextResponse.json({ message: "Report data saved successfully" });
847:     } catch (error) {
848:         console.error("Error in POST /api/report-data:", error);
849:         return NextResponse.json(
850:             { error: "Internal Server Error" },
851:             { status: 500 }
852:         );
853:     }
854: }

```

## File: app\api\sports-images\route.ts

```

=====
1: import { writeFile, readdir } from "fs/promises";
2: import path from "path";
3: import { NextRequest, NextResponse } from "next/server";
4:
5: // POST: Upload image to /public/sports
6: export async function POST(req: NextRequest) {
7:     const formData = await req.formData();
8:     const file = formData.get("file") as File;
9:
10:    if (!file) {
11:        return NextResponse.json(
12:            { success: false, error: "No file uploaded" },
13:            { status: 400 }
14:        );
15:    }

```

```

16:
17:   const bytes = await file.arrayBuffer();
18:   const buffer = Buffer.from(bytes);
19:
20:   const fileName = `${Date.now()}-${file.name}`;
21:   const filePath = path.join(process.cwd(), "public", "sports", fileName);
22:
23:   try {
24:     await writeFile(filePath, buffer);
25:     const publicUrl = `/sports/${fileName}`;
26:     return NextResponse.json({ success: true, url: publicUrl });
27:   } catch (error) {
28:     return NextResponse.json(
29:       { success: false, error: "Failed to save file" },
30:       { status: 500 }
31:     );
32:   }
33: }
34:
35: // GET: Return list of images in /public/sports
36: export async function GET() {
37:   try {
38:     const dirPath = path.join(process.cwd(), "public", "sports");
39:     const files = await readdir(dirPath);
40:
41:     const images = files.map((file) => ({
42:       label: path.parse(file).name.toLowerCase(), // "dumbbell"
43:       url: `/sports/${file}`,
44:     }));
45:
46:     return NextResponse.json({ success: true, images });
47:   } catch (error) {
48:     console.error("Failed to read sports directory:", error);
49:     return NextResponse.json(
50:       { success: false, error: "Could not read sports folder" },
51:       { status: 500 }
52:     );
53:   }
54: }

```

## ■ 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-900 to-gray-800">
24:       <div className="w-full 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">
27:             <CardContent className="p-6 text-center">
28:               <Settings className="h-12 w-12 mx-auto mb-4" />

```

```

30:         <h3 className="font-bold text-lg">Admin Panel</h3>
31:         <p className="text-blue-100 text-sm">Manage all data</p>
32:     </CardContent>
33: </Card>
34: </Link>
35:
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-teal-600">
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-indigo-600">
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-red-600">
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="w-full 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:
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) => void
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 {
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 { Textarea } from "@/components/ui/textarea";
13: import {
14:   Select,
15:   SelectContent,
16:   SelectItem,
17:   SelectTrigger,
18:   SelectValue,
19: } from "@/components/ui/select";
20: import { Button } from "@/components/ui/button"; // Import Button
21: import { Save, RotateCcw } from "lucide-react"; // Import icons
22: import type { DietAnalysis, MacronutrientData } from "@/types/report-types";
23:
24: interface DietAnalysisAdminProps {

```

```

25:   dietAnalysis: DietAnalysis;
26:   updateDietAnalysis: (
27:     section: keyof DietAnalysis,
28:     field: string,
29:     data: Partial<MacronutrientData>
30:   ) => void;
31:   onSave: () => void; // Added onSave
32:   onReset: () => void; // Added onReset
33: }
34:
35: export default function DietAnalysisAdmin({
36:   dietAnalysis,
37:   updateDietAnalysis,
38:   onSave,
39:   onReset,
40: }: DietAnalysisAdminProps) {
41:   const renderMacronutrientField = (
42:     section: keyof DietAnalysis,
43:     field: string,
44:     data: MacronutrientData,
45:     title: string
46:   ) => (
47:     <Card key={field} className="border-2 border-blue-100 bg-blue-50/30">
48:       <CardHeader className="pb-3">
49:         <CardTitle className="text-lg text-blue-800">{title}</CardTitle>
50:       </CardHeader>
51:       <CardContent className="space-y-4">
52:         <div className="grid grid-cols-2 gap-4">
53:           <div className="space-y-2">
54:             <Label className="text-sm font-medium">Score (1-10)</Label>
55:             <Input
56:               type="number"
57:               min="1"
58:               max="10"
59:               value={data.score}
60:               onChange={(e) =>
61:                 updateDietAnalysis(section, field, {
62:                   score: Number.parseInt(e.target.value) || 1,
63:                 })
64:               }
65:             className="border-2 focus:border-blue-500"
66:           />
67:         </div>
68:         <div className="space-y-2">
69:           <Label className="text-sm font-medium">Level</Label>
70:           <Select
71:             value={data.level}
72:             onChange={(value) =>
73:               updateDietAnalysis(section, field, { level: value })
74:             }
75:           >
76:             <SelectTrigger className="border-2 focus:border-blue-500">
77:               <SelectValue />
78:             </SelectTrigger>
79:             <SelectContent>
80:               <SelectItem value="HIGH">HIGH</SelectItem>
81:               <SelectItem value="NORMAL">NORMAL</SelectItem>
82:               <SelectItem value="LOW">LOW</SelectItem>
83:             </SelectContent>
84:           </Select>
85:         </div>
86:       </div>
87:       <div className="space-y-2">
88:         <Label className="text-sm font-medium">Recommendation</Label>
89:         <Textarea
90:           value={data.recommendation}
91:           onChange={(e) =>
92:             updateDietAnalysis(section, field, {
93:               recommendation: e.target.value,
94:             })
95:           }
96:         rows={3}
97:         className="border-2 focus:border-blue-500 text-sm"

```

```

98:         />
99:     </div>
100: </CardContent>
101: </Card>
102: );
103:
104: return (
105:     <Card className="shadow-lg border-0 bg-white">
106:         <CardHeader className="bg-gradient-to-r from-amber-500 to-orange-600 text-white rounded-t-lg">
107:             <CardTitle className="text-2xl">? Diet Analysis</CardTitle>
108:             <CardDescription className="text-amber-100">
109:                 Configure macronutrients, meal patterns, and food sensitivities
110:             </CardDescription>
111:         </CardHeader>
112:         <CardContent className="space-y-8 p-8">
113:             { /* Action Buttons */ }
114:             <div className="flex justify-end gap-2 mb-6">
115:                 <Button onClick={onReset} variant="outline" size="sm">
116:                     <RotateCcw className="h-4 w-4 mr-2" />
117:                     Reset
118:                 </Button>
119:                 <Button onClick={onSave} size="sm">
120:                     <Save className="h-4 w-4 mr-2" />
121:                     Save Changes
122:                 </Button>
123:             </div>
124:
125:             { /* Macronutrients 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">
128:                     ? Macronutrients
129:                 </h3>
130:                 <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-6">
131:                     {renderMacronutrientField(
132:                         "macronutrients",
133:                         "carbohydrateSensitivity",
134:                         dietAnalysis.macronutrients.carbohydrateSensitivity,
135:                         "Carbohydrate Sensitivity"
136:                     )}
137:                     {renderMacronutrientField(
138:                         "macronutrients",
139:                         "fatSensitivity",
140:                         dietAnalysis.macronutrients.fatSensitivity,
141:                         "Fat Sensitivity"
142:                     )}
143:                     {renderMacronutrientField(
144:                         "macronutrients",
145:                         "proteinRequirement",
146:                         dietAnalysis.macronutrients.proteinRequirement,
147:                         "Protein Requirement"
148:                     )}
149:                 </div>
150:             </div>
151:
152:             { /* Meal Pattern Section */ }
153:             <div className="space-y-4">
154:                 <h3 className="text-xl font-semibold text-gray-800 border-b-2 border-amber-200 pb-2">
155:                     ?? Meal Pattern
156:                 </h3>
157:                 <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-6">
158:                     {renderMacronutrientField(
159:                         "mealPattern",
160:                         "mealFrequency",
161:                         dietAnalysis.mealPattern.mealFrequency,
162:                         "Meal Frequency"
163:                     )}
164:                     {renderMacronutrientField(
165:                         "mealPattern",
166:                         "mealReplacement",
167:                         dietAnalysis.mealPattern.mealReplacement,
168:                         "Meal Replacement"
169:                     )}
170:                     {renderMacronutrientField(

```



```

171:         "mealPattern",
172:         "weightMaintenance",
173:         dietAnalysis.mealPattern.weightMaintenance,
174:         "Weight Maintenance"
175:     )}
176: </div>
177: </div>
178:
179: { /* Food Sensitivities Section */}
180: <div className="space-y-4">
181:     <h3 className="text-xl font-semibold text-gray-800 border-b-2 border-amber-200 pb-2">
182:         ? Food Sensitivities
183:     </h3>
184:     <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-6">
185:         {renderMacronutrientField(
186:             "foodSensitivities",
187:             "alcoholSensitivity",
188:             dietAnalysis.foodSensitivities.alcoholSensitivity,
189:             "Alcohol Sensitivity"
190:         )}
191:         {renderMacronutrientField(
192:             "foodSensitivities",
193:             "caffeineSensitivity",
194:             dietAnalysis.foodSensitivities.caffeineSensitivity,
195:             "Caffeine Sensitivity"
196:         )}
197:         {renderMacronutrientField(
198:             "foodSensitivities",
199:             "glutenSensitivity",
200:             dietAnalysis.foodSensitivities.glutenSensitivity,
201:             "Gluten Sensitivity"
202:         )}
203:         {renderMacronutrientField(
204:             "foodSensitivities",
205:             "lactoseSensitivity",
206:             dietAnalysis.foodSensitivities.lactoseSensitivity,
207:             "Lactose Sensitivity"
208:         )}
209:         {renderMacronutrientField(
210:             "foodSensitivities",
211:             "saltSensitivity",
212:             dietAnalysis.foodSensitivities.saltSensitivity,
213:             "Salt Sensitivity"
214:         )}
215:     </div>
216: </div>
217:
218: { /* Taste Sensitivities Section */}
219: <div className="space-y-4">
220:     <h3 className="text-xl font-semibold text-gray-800 border-b-2 border-amber-200 pb-2">
221:         ? Taste Sensitivities
222:     </h3>
223:     <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-6">
224:         {renderMacronutrientField(
225:             "tasteSensitivities",
226:             "spiceTolerance",
227:             dietAnalysis.tasteSensitivities.spiceTolerance,
228:             "Spice Tolerance"
229:         )}
230:         {renderMacronutrientField(
231:             "tasteSensitivities",
232:             "sweetTaste",
233:             dietAnalysis.tasteSensitivities.sweetTaste,
234:             "Sweet Taste"
235:         )}
236:         {renderMacronutrientField(
237:             "tasteSensitivities",
238:             "tasteSensitivity",
239:             dietAnalysis.tasteSensitivities.tasteSensitivity,
240:             "Taste Sensitivity"
241:         )}
242:     </div>
243: </div>

```

```

244:         </CardContent>
245:     </Card>
246: );
247: }

```

## ■ 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">
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 musculoskeletal
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 genetic factors.
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: import { useState, useEffect } from "react";
3: import { DragDropContext, Droppable, Draggable } from "@hello-pangea/dnd";
4: import { v4 as uuidv4 } from "uuid";
5: import {
6:   Card,
7:   CardContent,
8:   CardDescription,
9:   CardHeader,
10:  CardTitle,
11: } from "@components/ui/card";
12: import { Button } from "@components/ui/button";
13: import {
14:   Plus,
15:   Save,
16:   RotateCcw,
17:   Trash2,
18:   GripVertical,

```

```

19:   X,
20:   File,
21: } from "lucide-react";
22: import { useToast } from "@components/ui/use-toast";
23: import {
24:   FieldInput,
25:   FieldTextarea,
26:   FieldSelect,
27: } from "@components/admin/dynamic-field-helpers";
28: import type { DynamicDietFieldDefinition } from "@types/report-types";
29:
30: interface DynamicDietFieldAdminProps {
31:   dynamicDietFieldDefinitions: DynamicDietFieldDefinition[];
32:   onUpdateFields: (definitions: DynamicDietFieldDefinition[]) => void;
33:   onSave: () => void;
34:   onReset: () => void;
35:   categories: string[];
36:   onUpdateCategories: (updated: string[]) => void;
37:   patientDietAnalysisResults: PatientDietAnalysisResult[];
38:   onUpdateResults: (results: PatientDietAnalysisResult[]) => void;
39:
40:   // ... other props
41: }
42:
43: export default function DynamicDietFieldAdmin({
44:   dynamicDietFieldDefinitions,
45:   onUpdateFields,
46:   onSave,
47:   onReset,
48:   categories,
49:   onUpdateCategories,
50:   patientDietAnalysisResults,
51:   onUpdateResults,
52: }: DynamicDietFieldAdminProps) {
53:   const [showResultModal, setShowResultModal] = useState(false);
54:   const [selectedFieldId, setSelectedFieldId] = useState("");
55:   const [enteredScore, setEnteredScore] = useState<number>(5);
56:   const [fieldScores, setFieldScores] = useState<Record<string, number>>({});
57:   const [results, setResults] = useState<PatientDietAnalysisResult[]>([]);
58:   const [showResultsModal, setShowResultsModal] = useState(false);
59:
60:   const [localFields, setLocalFields] = useState<DynamicDietFieldDefinition[]>(
61:     dynamicDietFieldDefinitions
62:   );
63:   const [localCategories, setLocalCategories] = useState<string[]>(
64:     categories || []
65:   );
66:   const [showCreateModal, setShowCreateModal] = useState(false);
67:   const [newFieldData, setNewFieldData] = useState<
68:     Omit<DynamicDietFieldDefinition, "_uuid" | "id">
69:   >({
70:     label: "",
71:     category: localCategories[0] || "",
72:     min: 1,
73:     max: 10,
74:     highRecommendation: "",
75:     normalRecommendation: "",
76:     lowRecommendation: "",
77:   });
78:   const { toast } = useToast();
79:
80:   const handleAddCategory = () => {
81:     const newCategory = prompt("Enter new category name:");
82:     if (newCategory && !localCategories.includes(newCategory)) {
83:       const updated = [...localCategories, newCategory];
84:       setLocalCategories(updated);
85:       onUpdateCategories(updated);
86:     }
87:   };
88:
89:   const handleDeleteCategory = (cat: string) => {
90:     if (confirm(`Delete "${cat}"?`)) {
91:       const updated = localCategories.filter((c) => c !== cat);

```

```

92:         setLocalCategories(updated);
93:         onUpdateCategories(updated);
94:     }
95: };
96:
97: useEffect(() => {
98:     setLocalFields(dynamicDietFieldDefinitions);
99: }, [dynamicDietFieldDefinitions]);
100:
101: useEffect(() => {
102:     setResults(patientDietAnalysisResults || []);
103: }, [patientDietAnalysisResults]);
104:
105: const addNewField = () => {
106:     if (!newFieldData.label.trim()) {
107:         toast({
108:             title: "Validation Error",
109:             description: "Field label is required.",
110:             variant: "destructive",
111:             duration: 3000,
112:         });
113:         return;
114:     }
115:     const fieldId = newFieldData.label
116:         .toLowerCase()
117:         .replace(/\s+/g, "_")
118:         .replace(/[^a-z0-9_]/g, "");
119:     const isDuplicate = localFields.some((field) => field.id === fieldId);
120:     if (isDuplicate) {
121:         toast({
122:             title: "Validation Error",
123:             description: "A field with this label (ID) already exists.",
124:             variant: "destructive",
125:             duration: 3000,
126:         });
127:         return;
128:     }
129:     const newField: DynamicDietFieldDefinition = {
130:         _uuid: uuidv4(),
131:         id: fieldId,
132:         ...newFieldData,
133:     };
134:     const updatedFields = [...localFields, newField];
135:     setLocalFields(updatedFields);
136:     onUpdateFields(updatedFields);
137:     setShowCreateModal(false);
138:     setNewFieldData({
139:         label: "",
140:         category: localCategories[0] || "",
141:         min: 1,
142:         max: 10,
143:         highRecommendation: "",
144:         normalRecommendation: "",
145:         lowRecommendation: "",
146:     });
147:     toast({
148:         title: "Field Added",
149:         description: `${newField.label} has been added. Remember to Save Changes.`,
150:         variant: "success",
151:         duration: 3000,
152:     });
153: };
154:
155: const handleCreateModalClose = () => {
156:     setShowCreateModal(false);
157:     setNewFieldData({
158:         label: "",
159:         category: localCategories[0] || "",
160:         min: 1,
161:         max: 10,
162:         highRecommendation: "",
163:         normalRecommendation: "",
164:         lowRecommendation: "",

```

```

165:     });
166: };
167:
168: const updateLocalField = (
169:     index: number,
170:     key: keyof DynamicDietFieldDefinition,
171:     value: any
172: ) => {
173:     const updated = [...localFields];
174:     if (key === "id") {
175:         const newId = String(value)
176:             .toLowerCase()
177:             .replace(/\s+/g, "_")
178:             .replace(/[^a-z0-9_]/g, "");
179:         const isDuplicate = localFields.some(
180:             (f, i) => i !== index && f.id === newId
181:         );
182:         if (isDuplicate) {
183:             toast({
184:                 title: "Validation Error",
185:                 description: "Field ID must be unique.",
186:                 variant: "destructive",
187:                 duration: 3000,
188:             });
189:             return;
190:         }
191:         updated[index] = { ...updated[index], [key]: newId };
192:     } else {
193:         updated[index] = { ...updated[index], [key]: value };
194:     }
195:     setLocalFields(updated);
196:     onUpdateFields(updated);
197: };
198:
199: const handleBatchAddResults = () => {
200:     const newResults: PatientDietAnalysisResult[] = [];
201:
202:     Object.entries(fieldScores).forEach(([fieldId, score]) => {
203:         const field = localFields.find((f) => f.id === fieldId);
204:         if (!field || score < field.min || score > field.max) return;
205:
206:         let level: "LOW" | "NORMAL" | "HIGH" = "NORMAL";
207:         if (score <= 3) level = "LOW";
208:         else if (score >= 7) level = "HIGH";
209:
210:         const recommendations = {
211:             LOW: field.lowRecommendation,
212:             NORMAL: field.normalRecommendation,
213:             HIGH: field.highRecommendation,
214:         };
215:
216:         const recommendation = recommendations[level];
217:
218:         newResults.push({
219:             fieldId,
220:             score,
221:             level,
222:             recommendation, // still storing the selected one
223:             recommendations,
224:             selectedLevel: level,
225:         });
226:     });
227:
228:     const updated = [...results, ...newResults];
229:     setResults(updated);
230:     onUpdateResults(updated);
231:     setShowResultModal(false);
232:     setFieldScores({}); // Reset
233:
234:     toast({
235:         title: "Results Saved",
236:         description: `${newResults.length} results added successfully.`,
237:         variant: "success",

```

```

238:     duration: 3000,
239:   });
240: };
241:
242: const handleDeleteResult = (fieldId: string) => {
243:   const updated = results.filter((r) => r.fieldId !== fieldId);
244:   setResults(updated);
245:   onUpdateResults(updated);
246:
247:   toast({
248:     title: "Result Deleted",
249:     description: `Analysis result for "${fieldId}" has been removed.`,
250:     variant: "destructive",
251:     duration: 3000,
252:   });
253: };
254:
255: const deleteField = (idToDelete: string) => {
256:   if (
257:     !window.confirm(
258:       "Are you sure you want to delete this field? This action cannot be undone."
259:     )
260:   ) {
261:     return;
262:   }
263:   const updatedFields = localFields.filter(
264:     (field) => field.id !== idToDelete
265:   );
266:   setLocalFields(updatedFields);
267:   onUpdateFields(updatedFields);
268:   toast({
269:     title: "Field Deleted",
270:     description: "Field removed. Remember to Save Changes.",
271:     variant: "destructive",
272:     duration: 3000,
273:   });
274: };
275:
276: const onDragEnd = (result: any) => {
277:   if (!result.destination) return;
278:   const reordered = Array.from(localFields);
279:   const [moved] = reordered.splice(result.source.index, 1);
280:   reordered.splice(result.destination.index, 0, moved);
281:   setLocalFields(reordered);
282:   onUpdateFields(reordered);
283:   toast({
284:     title: "Fields Reordered",
285:     description: "Order updated. Remember to Save Changes.",
286:     variant: "default",
287:     duration: 3000,
288:   });
289: };
290:
291: return (
292:   <div>
293:     <Card className="shadow-lg border-0 bg-white">
294:       <CardHeader className="bg-gradient-to-r from-amber-500 to-orange-600 text-white rounded-t-lg">
295:         <CardTitle className="text-xl sm:text-2xl">
296:           ? Dynamic Diet Field Management
297:         </CardTitle>
298:         <CardDescription className="text-amber-100 text-sm sm:text-base">
299:           Define and manage the types of diet analysis fields for your
300:           reports.
301:         </CardDescription>
302:       </CardHeader>
303:
304:       <CardContent className="space-y-6 sm:space-y-8 p-4 sm:p-6 lg:p-8">
305:         { /* Header Section */ }
306:         <div className="flex flex-col sm:flex-row justify-between items-start gap-4">
307:           <h3 className="text-lg sm:text-xl font-semibold text-gray-800">
308:             Configured Fields
309:           </h3>

```

```

311:      {/* Action Buttons */}
312:      <div className="flex flex-col sm:flex-row gap-2 w-full sm:w-auto">
313:        <Button
314:          onClick={onReset}
315:          variant="outline"
316:          size="sm"
317:          className="w-full sm:w-auto bg-transparent"
318:        >
319:          <RotateCcw className="h-4 w-4 mr-2" />
320:          Reset Section
321:        </Button>
322:        <Button
323:          onClick={() => setShowCreateModal(true)}
324:          size="sm"
325:          className="w-full sm:w-auto"
326:        >
327:          <Plus className="h-4 w-4 mr-2" />
328:          Add New Field
329:        </Button>
330:        <Button
331:          className="w-full sm:w-auto"
332:          onClick={() => setShowResultModal(true)}
333:          size="sm"
334:        >
335:          <Plus className="h-4 w-4 mr-2" />
336:          Add Analysis Result
337:        </Button>
338:
339:        <Button
340:          onClick={() => setShowResultsModal(true)}
341:          size="sm"
342:          className="w-full sm:w-auto"
343:        >
344:          <File className="h-4 w-4 mr-2" />
345:          View Saved Results
346:        </Button>
347:
348:        <Button onClick={onSave} size="sm" className="w-full sm:w-auto">
349:          <Save className="h-4 w-4 mr-2" />
350:          Save All Changes
351:        </Button>
352:      </div>
353:    </div>
354:
355:    {/* Categories Management Section */}
356:    <div className="bg-gray-50 rounded-lg p-4 sm:p-6">
357:      <h4 className="font-semibold text-gray-700 mb-4 text-base sm:text-lg">
358:        Diet Field Categories
359:      </h4>
360:
361:      <div className="space-y-3">
362:        {/* Categories List */}
363:        <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-3 gap-2">
364:          {localCategories.map((cat) => (
365:            <div
366:              key={cat}
367:              className="flex justify-between items-center bg-white px-3 py-2 rounded-md shadow-sm border"
368:            >
369:              <span className="text-sm font-medium truncate mr-2">
370:                {cat}
371:              </span>
372:              <Button
373:                variant="destructive"
374:                size="sm"
375:                onClick={() => handleDeleteCategory(cat)}
376:                className="flex-shrink-0"
377:              >
378:                <Trash2 className="h-3 w-3" />
379:              </Button>
380:            </div>
381:          ))}
382:        </div>
383:

```



```

384:         <Button
385:             onClick={handleAddCategory}
386:             size="sm"
387:             className="w-full sm:w-auto"
388:         >
389:             <Plus className="h-4 w-4 mr-2" />
390:             Add Category
391:         </Button>
392:     </div>
393: </div>
394:
395: { /* Fields List */ }
396: { localFields.length === 0 ? (
397:     <div className="text-center py-12 text-gray-500 italic bg-gray-50 rounded-lg">
398:         <div className="text-4xl mb-4">?</div>
399:         <p className="text-lg">No dynamic diet fields defined yet.</p>
400:         <p className="text-sm mt-2">
401:             Click "Add New Field" to get started.
402:         </p>
403:     </div>
404: ) : (
405:     <DragDropContext onDragEnd={onDragEnd}>
406:         <Draggable draggableId="fields">
407:             {(provided) => (
408:                 <div
409:                     {...provided.draggableProps}
410:                     ref={provided.innerRef}
411:                     className="space-y-4"
412:                 >
413:                     {localFields.map((field, index) => (
414:                         <Draggable
415:                             key={field._uuid}
416:                             draggableId={field._uuid}
417:                             index={index}
418:                         >
419:                             {(provided, snapshot) => (
420:                                 <div
421:                                     ref={provided.innerRef}
422:                                     {...provided.draggableProps}
423:                                     className={`border rounded-lg p-4 sm:p-6 bg-white shadow-sm transition-all duration-200
424:                                         ${snapshot.isDragging ? "bg-gray-100 ring-2 ring-blue-500 shadow-lg" : "hover:shadow-md"}
425:                                     `}
426:                                 >
427:                                     { /* Field Header */ }
428:                                 </div>
429:                             )}
430:                         </Draggable>
431:                     )}
432:                 </div>
433:             )}
434:         </Draggable>
435:     </DragDropContext>
436:
437:     { /* Field Header */ }
438:     <div className="flex flex-col sm:flex-row items-start sm:items-center justify-between">
439:         <div className="flex items-center gap-2 min-w-0 flex-1">
440:             <span
441:                 {...provided.dragHandleProps}
442:                 className="cursor-grab text-gray-400 flex-shrink-0 touch-none"
443:             >
444:                 <GripVertical className="h-5 w-5" />
445:             </span>
446:             <div className="min-w-0 flex-1">
447:                 <h4 className="text-base sm:text-lg font-semibold text-gray-900 truncate">
448:                     {index + 1}. {field.label}
449:                 </h4>
450:                 <p className="text-xs sm:text-sm text-gray-500 truncate">
451:                     ID: {field.id}
452:                 </p>
453:             </div>
454:         </div>
455:         <Button
456:             variant="destructive"
457:             size="sm"
458:             onClick={() => deleteField(field.id)}
459:             className="flex-shrink-0"
460:         >
461:             <Trash2 className="h-4 w-4" />
462:             <span className="hidden sm:inline ml-2">
463:                 Delete
464:             </span>
465:         </Button>
466:     </div>
467: )}
468: </div>
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826: </div>
82
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457:         </Button>
458:     </div>
459:
460:     { /* Field Form */ }
461:     <div className="space-y-4">
462:         { /* Basic Info Row */ }
463:         <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-3 gap-4">
464:             <FieldInput
465:                 label="Field ID"
466:                 value={field.id}
467:                 onChange={(val) =>
468:                     updateLocalField(index, "id", val)
469:                 }
470:                 disabled
471:             />
472:             <FieldInput
473:                 label="Label"
474:                 value={field.label}
475:                 onChange={(val) =>
476:                     updateLocalField(index, "label", val)
477:                 }
478:             />
479:             <FieldSelect
480:                 label="Category"
481:                 value={field.category}
482:                 options={localCategories}
483:                 onChange={(val) =>
484:                     updateLocalField(index, "category", val)
485:                 }
486:             />
487:         </div>
488:
489:         { /* Score Range Row */ }
490:         <div className="grid grid-cols-1 sm:grid-cols-2 gap-4">
491:             <FieldInput
492:                 label="Min Score"
493:                 type="number"
494:                 value={field.min}
495:                 onChange={(val) =>
496:                     updateLocalField(index, "min", val)
497:                 }
498:                 min={0}
499:                 max={field.max}
500:             />
501:             <FieldInput
502:                 label="Max Score"
503:                 type="number"
504:                 value={field.max}
505:                 onChange={(val) =>
506:                     updateLocalField(index, "max", val)
507:                 }
508:                 min={field.min}
509:             />
510:         </div>
511:
512:         { /* Recommendations Row */ }
513:         <div className="grid grid-cols-1 lg:grid-cols-3 gap-4">
514:             <FieldTextarea
515:                 label="High Recommendation"
516:                 value={field.highRecommendation}
517:                 onChange={(val) =>
518:                     updateLocalField(
519:                         index,
520:                         "highRecommendation",
521:                         val
522:                     )
523:                 }
524:             />
525:             <FieldTextarea
526:                 label="Normal Recommendation"
527:                 value={field.normalRecommendation}
528:                 onChange={(val) =>
529:                     updateLocalField(

```

```

530:                                     index,
531:                                     "normalRecommendation",
532:                                     val
533:                                 )
534:                            }
535:                        />
536:                    <FieldTextarea
537:                        label="Low Recommendation"
538:                        value={field.lowRecommendation}
539:                        onChange={(val) =>
540:                            updateLocalField(
541:                                index,
542:                                "lowRecommendation",
543:                                val
544:                            )
545:                        }
546:                    />
547:                </div>
548:            </div>
549:        </div>
550:    )}
551:    </Draggable>
552:  )}
553:  {provided.placeholder}
554: </div>
555: )}
556: </Draggable>
557: </DragDropContext>
558: )}
559: </CardContent>
560: </Card>
561:
562: {/* Create New Field Modal */}
563: {showResultModal && (
564:   <div className="fixed inset-0 z-50 bg-black bg-opacity-50 flex justify-center items-center p-4">
565:     <div className="bg-white rounded-lg shadow-xl w-full max-w-3xl p-6">
566:       <h3 className="text-lg font-bold mb-4 text-center">
567:         Add Diet Analysis Results
568:       </h3>
569:
570:       <div className="grid grid-cols-1 sm:grid-cols-2 gap-4 max-h-[60vh] overflow-y-auto mb-6">
571:         {localFields.map((field) => (
572:           <div
573:             key={field.id}
574:             className="flex items-center justify-between"
575:           >
576:             <label className="mr-4 w-2/3 font-medium">
577:               {field.label}:
578:             </label>
579:             <input
580:               type="number"
581:               min={field.min}
582:               max={field.max}
583:               className="w-20 border rounded px-2 py-1"
584:               value={fieldScores[field.id] ?? ""}
585:               onChange={(e) =>
586:                 setFieldScores((prev) => ({
587:                   ...prev,
588:                   [field.id]: Number(e.target.value),
589:                 }))
590:             }
591:           />
592:         </div>
593:       )}
594:     </div>
595:
596:     <div className="flex justify-end gap-2">
597:       <Button
598:         variant="outline"
599:         onClick={() => setShowResultModal(false)}
600:       >
601:         Cancel
602:       </Button>

```

```

603:         <Button onClick={handleBatchAddResults}>Save All</Button>
604:     </div>
605: </div>
606: </div>
607: )}
608: {showCreateModal && (
609:     <div className="fixed inset-0 bg-black bg-opacity-50 flex items-center justify-center z-50 p-4">
610:         <div className="bg-white rounded-lg w-full max-w-2xl max-h-[90vh] overflow-hidden shadow-xl">
611:             {/* Modal Header */}
612:             <div className="flex items-center justify-between p-4 sm:p-6 border-b">
613:                 <h3 className="text-lg sm:text-xl font-bold">
614:                     Add New Diet Field Definition
615:                 </h3>
616:                 <Button
617:                     variant="ghost"
618:                     size="sm"
619:                     onClick={handleCreateModalClose}
620:                     className="flex-shrink-0"
621:                 >
622:                     <X className="h-4 w-4" />
623:                 </Button>
624:             </div>
625:
626:             {/* Modal Content */}
627:             <div className="p-4 sm:p-6 overflow-y-auto max-h-[calc(90vh-120px)]">
628:                 <div className="space-y-4">
629:                     {/* Basic Info */}
630:                     <div className="grid grid-cols-1 sm:grid-cols-2 gap-4">
631:                         <FieldInput
632:                             label="Field Label"
633:                             value={newFieldData.label}
634:                             onChange={(val) =>
635:                                 setNewFieldData({ ...newFieldData, label: val })
636:                             }
637:                             placeholder="e.g., Gluten Sensitivity"
638:                             required
639:                         />
640:                         <FieldSelect
641:                             label="Category"
642:                             value={newFieldData.category}
643:                             options={localCategories}
644:                             onChange={(val) =>
645:                                 setNewFieldData({ ...newFieldData, category: val })
646:                             }
647:                         />
648:                     </div>
649:
650:                     {/* Score Range */}
651:                     <div className="grid grid-cols-1 sm:grid-cols-2 gap-4">
652:                         <FieldInput
653:                             label="Min Score"
654:                             type="number"
655:                             value={newFieldData.min}
656:                             onChange={(val) =>
657:                                 setNewFieldData({ ...newFieldData, min: Number(val) })
658:                             }
659:                             min={0}
660:                             max={newFieldData.max}
661:                         />
662:                         <FieldInput
663:                             label="Max Score"
664:                             type="number"
665:                             value={newFieldData.max}
666:                             onChange={(val) =>
667:                                 setNewFieldData({ ...newFieldData, max: Number(val) })
668:                             }
669:                             min={newFieldData.min}
670:                         />
671:                     </div>
672:
673:                     {/* Recommendations */}
674:                     <div className="space-y-4">
675:                         <FieldTextarea

```

```

676:         label="High Recommendation"
677:         value={newFieldData.highRecommendation}
678:         onChange={ (val) =>
679:             setNewFieldData({
680:                 ...newFieldData,
681:                 highRecommendation: val,
682:             })
683:         }
684:         placeholder="Recommendation for high score"
685:     />
686:     <FieldTextarea
687:         label="Normal Recommendation"
688:         value={newFieldData.normalRecommendation}
689:         onChange={ (val) =>
690:             setNewFieldData({
691:                 ...newFieldData,
692:                 normalRecommendation: val,
693:             })
694:         }
695:         placeholder="Recommendation for normal score"
696:     />
697:     <FieldTextarea
698:         label="Low Recommendation"
699:         value={newFieldData.lowRecommendation}
700:         onChange={ (val) =>
701:             setNewFieldData({
702:                 ...newFieldData,
703:                 lowRecommendation: val,
704:             })
705:         }
706:         placeholder="Recommendation for low score"
707:     />
708: </div>
709: </div>
710: </div>
711:
712: { /* Modal Footer */}
713: <div className="flex flex-col sm:flex-row justify-end gap-3 p-4 sm:p-6 border-t bg-gray-50">
714:     <Button
715:         variant="outline"
716:         onClick={handleCreateModalClose}
717:         className="w-full sm:w-auto bg-transparent"
718:     >
719:         Cancel
720:     </Button>
721:     <Button onClick={addNewField} className="w-full sm:w-auto">
722:         Add Field
723:     </Button>
724: </div>
725: </div>
726: </div>
727: )}
728: {showResultsModal && (
729:     <div className="fixed inset-0 z-50 bg-black bg-opacity-50 flex justify-center items-center p-4">
730:         <div className="bg-white rounded-lg shadow-xl w-full max-w-3xl p-4 max-h-[80vh] overflow-y-auto">
731:             <button
732:                 onClick={() => setShowResultsModal(false)}
733:                 className="absolute top-3 left-3 text-gray-500 hover:text-black"
734:             >
735:                 <X className="h-5 w-5" />
736:             </button>
737:
738:             { /* Delete All Button */}
739:             <div className="mb-4 flex justify-end">
740:                 <Button
741:                     variant="destructive"
742:                     onClick={() => {
743:                         if (
744:                             confirm(
745:                                 "Are you sure you want to delete all analysis results?"
746:                             )
747:                         ) {
748:                             setResults([]);

```

```

749:         onUpdateResults([]);
750:         toast({
751:             title: "All Results Deleted",
752:             description:
753:                 "All diet analysis results have been cleared.",
754:             variant: "destructive",
755:         });
756:     }
757: }}
758: >
759:     <Trash2 className="h-4 w-4 mr-2" />
760:     Delete All Results
761: </Button>
762: </div>
763:
764: {results.length === 0 ? (
765:     <p className="text-gray-500 italic">No analysis results yet.</p>
766: ) : (
767:     <div className="space-y-3">
768:         {results.map((res) => (
769:             <div
770:                 key={res.fieldId}
771:                 className="flex justify-between items-center border p-3 rounded-md bg-gray-50"
772:             >
773:                 <div>
774:                     <p className="font-medium">{res.fieldId}</p>
775:                     <p className="text-sm text-gray-600">
776:                         Score: {res.score}, Level: {res.level}
777:                     </p>
778:                     <p className="text-sm text-gray-600">
779:                         Recommendation: {res.recommendation}
780:                     </p>
781:                 </div>
782:                 <Button
783:                     variant="destructive"
784:                     size="sm"
785:                     onClick={() => handleDeleteResult(res.fieldId)}
786:                 >
787:                     <Trash2 className="h-4 w-4" />
788:                 </Button>
789:             </div>
790:         ))}
791:     </div>
792: )}
793: </div>
794: </div>
795: )}
796: </div>
797: );
798: }

```

## **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
15: }
16:
17: export const FieldInput: React.FC<FieldInputProps> = ({
18:   label,

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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-300"}
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={onChange}
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={onChange}
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:

```

```

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) {

```

```

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:

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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">
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:               >

```

```

342:       <SelectTrigger className="w-full sm:w-48">
343:         <SelectValue placeholder="Filter by category" />
344:       </SelectTrigger>
345:       <SelectContent>
346:         <SelectItem value="all">All Categories</SelectItem>
347:         {categories.map((cat) => (
348:           <SelectItem key={cat.id} value={cat.id}>
349:             {cat.category}
350:           </SelectItem>
351:         ))}
352:       </SelectContent>
353:     </Select>
354:
355:     <Button onClick={exportData} variant="outline" className="gap-2">
356:       <FileImage size={16} />
357:       Export JSON
358:     </Button>
359:
360:     <Button
361:       onClick={() => setIsEditing(!isEditing)}
362:       variant="outline"
363:       className="gap-2"
364:     >
365:       <Edit3 size={16} />
366:       {isEditing ? "View Mode" : "Edit Mode"}
367:     </Button>
368:
369:     {isEditing && (
370:       <>
371:         <Button
372:           onClick={addCategory}
373:           variant="outline"
374:           className="gap-2"
375:         >
376:           <Plus size={16} />
377:           Add Category
378:         </Button>
379:         <Button
380:           onClick={saveData}
381:           disabled={isSaving}
382:           className="gap-2"
383:         >
384:           <Save size={16} />
385:           {isSaving ? "Saving..." : "Save Changes"}
386:         </Button>
387:       </>
388:     )}
389:   </div>
390: </div>
391: </CardHeader>
392:
393: <CardContent>
394:   {/* Category Table */}
395:   <div className="overflow-x-auto">
396:     <div className="min-w-full border-gray-300 rounded-lg">
397:       {filteredCategories.map((category, categoryId) => {
398:         const actualIndex = categories.findIndex(
399:           (cat) => cat.id === category.id
400:         );
401:         return (
402:           <div
403:             key={category.id}
404:             className="border-b border-black last:border-b-0"
405:           >
406:             {/* Category Row */}
407:             <div className="border-b border-gray-300 last:border-b-0">
408:               <div className="grid grid-cols-4 min-h-[140px]">
409:                 {/* Category Name & Image Column */}
410:                 <div className="border-r border-gray-300 p-4 flex flex-col items-center justify-cen
411:                   {isEditing ? (
412:                     <div className="space-y-3 w-full">
413:                       <Input
414:                         value={category.category}

```

```

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>

```

```

488:         ) : (
489:             <div className="text-center">
490:                 <h2 className="text-base font-bold text-gray-700 mb-2">
491:                     {category.category}
492:                 </h2>
493:
494:                 {category.description && (
495:                     <p className="text-xs text-gray-600 mb-3 leading-tight">
496:                         {category.description}
497:                     </p>
498:                 )}
499:
500:                 {category.imageUrl &&
501:                 !imageErrors.has(category.id) ? (
502:                     <Image
503:                         src={category.imageUrl}
504:                         alt={category.category}
505:                         width={70}
506:                         height={70}
507:                         className="rounded-full border object-cover mx-auto"
508:                         onError={() => handleImageError(category.id)}
509:                     />
510:                     ) : (
511:                         <div className="w-[70px] h-[70px] bg-gray-100 rounded-full border-2 border-gray-200" >
512:                             <Upload size={24} className="text-gray-400" />
513:                         </div>
514:                     )}
515:                 </div>
516:             )}
517:         </div>
518:
519:         { /* Parameters Columns */ }
520:         <div className="col-span-3 ">
521:             <table className="w-full table-fixed border border-gray-300">
522:                 <tbody>
523:                     {Array.from(
524:                         length: Math.ceil(
525:                             category.parameters.length / 3
526:                         ),
527:                     ).map((_, rowIndex) => (
528:                         <tr key={rowIndex}>
529:                             {[0, 1, 2].map((colIndex) => {
530:                                 const paramIndex =
531:                                     colIndex *
532:                                     Math.ceil(
533:                                         category.parameters.length / 3
534:                                     ) +
535:                                     rowIndex;
536:                                 const parameter =
537:                                     category.parameters[paramIndex] || "";
538:
539:                                 return (
540:                                     <td
541:                                         key={colIndex}
542:                                         className="border border-gray-300 p-1"
543:                                     >
544:                                         {isEditing ? (
545:                                             <div className="flex items-center space-x-1 w-full">
546:                                                 <Input
547:                                                     value={parameter}
548:                                                     onChange={(e) =>
549:                                                         handleParameterChange(
550:                                                             actualIndex,
551:                                                             paramIndex,
552:                                                             e.target.value
553:                                                         )
554:                                                     }
555:                                                     placeholder="Parameter name"
556:                                                     className="text-sm h-7 w-full"
557:                                                 />
558:                                                 {paramIndex <
559:                                                     category.parameters.length && (
560:

```

```

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) => {
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" />

```

```

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 risk factors.
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, Plus, Trash2, Edit3 } from "lucide-react";
31: import { useState, useEffect } from "react";
32: import { useToast } from "@components/ui/use-toast";
33:
34: interface NutrientData {
35:   score: number;
36:   healthImpact: string;
37:   intakeLevel: string;
38:   source: string;
39: }
40:
41: interface NutritionData {
42:   vitamins: Record<string, NutrientData>;
43:   fattyAcids: Record<string, NutrientData>;
44:   elements: Record<string, NutrientData>;
45:   complexNutrients: Record<string, NutrientData>;
46: }
47:
48: interface NutritionAdminProps {
49:   nutritionData?: NutritionData;
50:   updateNutritionData?: (
51:     section: keyof NutritionData,
52:     field: string,
53:     data: Partial<NutrientData>
54:   ) => void;
55:   onSave?: () => void;
56: }
57:
58: export default function NutritionAdmin({
59:   nutritionData: propNutritionData,
60:   updateNutritionData: propUpdateNutritionData,
61:   onSave: propOnSave,
62: }: NutritionAdminProps) {
63:   // Default data structure
64:   const defaultNutrientData: NutrientData = {
65:     score: 5,
66:     healthImpact: "",
67:     intakeLevel: "NORMAL INTAKE",
68:     source: "DIET",
69:   };
70:
71:   // State management
72:
73:   const nutritionData = propNutritionData;
74:   const [activeSection, setActiveSection] =
75:     useState<keyof NutritionData>("vitamins");
76:   const [isAddDialogOpen, setIsAddDialogOpen] = useState(false);
77:   const [isEditMode, setIsEditMode] = useState<string | null>(null);
78:   const [editingName, setEditingName] = useState("");
79:   const updateNutritionData = propUpdateNutritionData;
80:   const { toast } = useToast();
81:
82:   // New nutrient form state
83:   const [newNutrient, setNewNutrient] = useState({
84:     name: "",
85:     score: 5,
86:     healthImpact: "",
87:     intakeLevel: "NORMAL INTAKE",
88:     source: "DIET",
89:   });
90:
91:   // CRUD Operations
92:
93:   const addNutrient = (
94:     section: keyof NutritionData,
95:     nutrientData: typeof newNutrient
96:   ) => {
97:     if (!nutritionData || !nutrientData.name.trim()) {
98:       return false;

```

```

99:     }
100:
101:     const fieldName = nutrientData.name.toLowerCase().replace(/\s+/g, "");
102:
103:     if (nutritionData[section][fieldName]) {
104:         return false;
105:     }
106:
107:     if (propUpdateNutritionData) {
108:         propUpdateNutritionData?.(section, fieldName, {
109:             score: nutrientData.score,
110:             healthImpact: nutrientData.healthImpact,
111:             intakeLevel: nutrientData.intakeLevel,
112:             source: nutrientData.source,
113:         });
114:     }
115:
116:     return true;
117: };
118:
119: const deleteNutrient = (section: keyof NutritionData, field: string) => {
120:     const updatedSection = { ...nutritionData?.[section] };
121:     delete updatedSection[field];
122:
123:     propUpdateNutritionData?.(section, "", updatedSection);
124: };
125:
126: const renameNutrient = (
127:     section: keyof NutritionData,
128:     oldField: string,
129:     newName: string
130: ) => {
131:     if (!nutritionData || !newName.trim()) {
132:         return false;
133:     }
134:
135:     const newField = newName.toLowerCase().replace(/\s+/g, "");
136:
137:     if (newField === oldField) return true;
138:     if (nutritionData[section][newField]) return false;
139:
140:     const updatedSection = { ...nutritionData[section] };
141:     updatedSection[newField] = updatedSection[oldField];
142:     delete updatedSection[oldField];
143:
144:     propUpdateNutritionData?.(section, "", updatedSection);
145:     return true;
146: };
147:
148: const onSave = async () => {
149:     try {
150:         const res = await fetch("/api/nutrition", {
151:             method: "PUT",
152:             headers: { "Content-Type": "application/json" },
153:             body: JSON.stringify(nutritionData),
154:         });
155:
156:         if (!res.ok) {
157:             const errorText = await res.text();
158:             throw new Error(errorText);
159:         }
160:
161:         toast({
162:             title: "Success",
163:             description: "Nutrition data saved successfully!",
164:             variant: "success",
165:             duration: 3000,
166:         });
167:         if (propOnSave) propOnSave();
168:     } catch (err) {
169:         console.error("Save failed:", err);
170:         toast({
171:             title: "Save Failed",

```



```

172:         description: "Could not save data. Check console for details.",
173:         variant: "destructive",
174:         duration: 3000,
175:     });
176: }
177: };
178:
179: const handleAddNutrient = () => {
180:     if (addNutrient(activeSection, newNutrient)) {
181:         setNewNutrient({
182:             name: "",
183:             score: 5,
184:             healthImpact: "",
185:             intakeLevel: "NORMAL INTAKE",
186:             source: "DIET",
187:         });
188:         setIsAddDialogOpen(false);
189:     } else {
190:         toast({
191:             title: "Add Failed",
192:             description: "Invalid name or nutrient already exists!",
193:             variant: "destructive",
194:             duration: 3000,
195:         });
196:     }
197: };
198:
199: const handleRename = (field: string) => {
200:     if (renameNutrient(activeSection, field, editingName)) {
201:         setIsEditMode(null);
202:         setEditingName("");
203:     } else {
204:         toast({
205:             title: "Rename Failed",
206:             description: "Invalid name or nutrient already exists!",
207:             variant: "destructive",
208:             duration: 3000,
209:         });
210:     }
211: };
212:
213: const resetAddForm = () => {
214:     setNewNutrient({
215:         name: "",
216:         score: 5,
217:         healthImpact: "",
218:         intakeLevel: "NORMAL INTAKE",
219:         source: "DIET",
220:     });
221: };
222:
223: if (!nutritionData) {
224:     return (
225:         <div className="p-8 text-center text-gray-500">
226:             Loading nutrition data...
227:         </div>
228:     );
229: }
230:
231: const renderNutrientField = (
232:     section: keyof NutritionData,
233:     field: string,
234:     data: NutrientData,
235:     title: string
236: ) => (
237:     <Card key={field} className="border-2 border-green-100 bg-green-50/30">
238:         <CardHeader className="pb-3">
239:             <CardTitle className="text-lg text-green-800 flex items-center justify-between">
240:                 {isEditMode === field ? (
241:                     <div className="flex items-center gap-2 flex-1">
242:                         <Input
243:                             value={editingName}
244:                             onChange={(e) => setEditingName(e.target.value)}

```

```

245:         className="text-lg font-semibold border-2 focus:border-green-500"
246:         onPress={(e) => e.key === "Enter" && handleRename(field)}
247:     />
248:     <Button size="sm" onClick={() => handleRename(field)}>
249:         ?
250:     </Button>
251:     <Button
252:         size="sm"
253:         variant="outline"
254:         onClick={() => {
255:             setIsEditMode(null);
256:             setEditingName("");
257:         }}
258:     >
259:         ?
260:     </Button>
261: </div>
262: ) : (
263:     <div className="flex items-center gap-2 flex-1">
264:         <span>{title}</span>
265:         <Button
266:             size="sm"
267:             variant="ghost"
268:             onClick={() => {
269:                 setIsEditMode(field);
270:                 setEditingName(title);
271:             }}
272:         >
273:             <Edit3 className="h-3 w-3" />
274:         </Button>
275:     </div>
276: )}
277: <div className="flex items-center gap-2">
278:     <Badge
279:         variant="outline"
280:         className={`{
281:             data.score >= 7
282:             ? "border-red-500 text-red-700"
283:             : data.score >= 4
284:             ? "border-yellow-500 text-yellow-700"
285:             : "border-green-500 text-green-700"
286:         }}`
287:     >
288:         Score: {data.score}/10
289:     </Badge>
290:     <Button
291:         size="sm"
292:         variant="ghost"
293:         onClick={() => deleteNutrient(section, field)}
294:         className="text-red-600 hover:bg-red-100"
295:     >
296:         <Trash2 className="h-4 w-4" />
297:     </Button>
298: </div>
299: </CardTitle>
300: </CardHeader>
301: <CardContent className="space-y-4">
302:     <div className="grid grid-cols-2 gap-4">
303:         <div className="space-y-2">
304:             <Label className="text-sm font-medium">Score (1-10)</Label>
305:             <Input
306:                 type="number"
307:                 min="1"
308:                 max="10"
309:                 value={data.score}
310:                 onChange={(e) => {
311:                     const score = Math.max(
312:                         1,
313:                         Math.min(10, Number.parseInt(e.target.value) || 1)
314:                     );
315:                     propUpdateNutritionData?.(section, field, { score });
316:                 }}
317:                 className="border-2 focus:border-green-500"

```

```

318:         />
319:     </div>
320:     <div className="space-y-2">
321:         <Label className="text-sm font-medium">Health Impact</Label>
322:         <Input
323:             value={data.healthImpact}
324:             onChange={(e) =>
325:                 propUpdateNutritionData?.(section, field, {
326:                     healthImpact: e.target.value,
327:                 })
328:             }
329:             placeholder="e.g., Skin & Vision"
330:             className="border-2 focus:border-green-500"
331:         />
332:     </div>
333: </div>
334: <div className="space-y-2">
335:     <Label className="text-sm font-medium">Intake Level</Label>
336:     <Select
337:         value={data.intakeLevel}
338:         onChange={(value) =>
339:             propUpdateNutritionData?.(section, field, { intakeLevel: value })
340:         }
341:     >
342:         <SelectTrigger className="border-2 focus:border-green-500">
343:             <SelectValue />
344:         </SelectTrigger>
345:         <SelectContent>
346:             <SelectItem value="ENHANCED INTAKE">ENHANCED INTAKE</SelectItem>
347:             <SelectItem value="NORMAL INTAKE">NORMAL INTAKE</SelectItem>
348:             <SelectItem value="RESTRICTED INTAKE">
349:                 RESTRICTED INTAKE
350:             </SelectItem>
351:             <SelectItem value="ENHANCED INTAKE (METHYLCOBALAMIN)">
352:                 ENHANCED INTAKE (METHYLCOBALAMIN)
353:             </SelectItem>
354:             <SelectItem value="ENHANCED INTAKE (L METHYLFOLATE)">
355:                 ENHANCED INTAKE (L METHYLFOLATE)
356:             </SelectItem>
357:             <SelectItem value="ENHANCED INTAKE & SUN EXPOSURE">
358:                 ENHANCED INTAKE & SUN EXPOSURE
359:             </SelectItem>
360:             <SelectItem value="ENHANCED INTAKE (VEG SOURCES)">
361:                 ENHANCED INTAKE (VEG SOURCES)
362:             </SelectItem>
363:         </SelectContent>
364:     </Select>
365: </div>
366: <div className="space-y-2">
367:     <Label className="text-sm font-medium">Source</Label>
368:     <Select
369:         value={data.source}
370:         onChange={(value) =>
371:             propUpdateNutritionData?.(section, field, { source: value })
372:         }
373:     >
374:         <SelectTrigger className="border-2 focus:border-green-500">
375:             <SelectValue />
376:         </SelectTrigger>
377:         <SelectContent>
378:             <SelectItem value="DIET">DIET</SelectItem>
379:             <SelectItem value="SUPPLEMENTS">SUPPLEMENTS</SelectItem>
380:             <SelectItem value="DIET & SUPPLEMENTS">
381:                 DIET & SUPPLEMENTS
382:             </SelectItem>
383:             <SelectItem value="DIET & SUN EXPOSURE">
384:                 DIET & SUN EXPOSURE
385:             </SelectItem>
386:             <SelectItem value="ENHANCED INTAKE (VEG/FISH OIL) & DIET">
387:                 ENHANCED INTAKE (VEG/FISH OIL) & DIET
388:             </SelectItem>
389:         </SelectContent>
390:     </Select>

```

```

391:         </div>
392:     </CardContent>
393: </Card>
394: );
395:
396: const getSectionTitle = (section: keyof NutritionData) => {
397:     switch (section) {
398:         case "vitamins":
399:             return "? Vitamins";
400:         case "fattyAcids":
401:             return "? Fatty Acids";
402:         case "elements":
403:             return "? Essential Elements";
404:         case "complexNutrients":
405:             return "? Complex Nutrients";
406:         default:
407:             return section;
408:     }
409: };
410:
411: const getSectionIcon = (section: keyof NutritionData) => {
412:     switch (section) {
413:         case "vitamins":
414:             return "?";
415:         case "fattyAcids":
416:             return "?";
417:         case "elements":
418:             return "?";
419:         case "complexNutrients":
420:             return "?";
421:         default:
422:             return "?";
423:     }
424: };
425:
426: return (
427:     <Card className="shadow-lg border-0 bg-white">
428:         <CardHeader className="bg-gradient-to-r from-green-500 to-emerald-600 text-white rounded-t-lg">
429:             <CardTitle className="text-2xl">? Nutrition Analysis</CardTitle>
430:             <CardDescription className="text-green-100">
431:                 Configure vitamins, minerals, fatty acids, and complex nutrients with
432:                 full CRUD operations
433:             </CardDescription>
434:         </CardHeader>
435:         <CardContent className="space-y-8 p-8">
436:             { /* Action Buttons */ }
437:             <div className="flex justify-between items-center flex-wrap gap-4">
438:                 <div className="flex gap-2 flex-wrap">
439:                     {(Object.keys(nutritionData) as Array<keyof NutritionData>).map(
440:                         (section) => (
441:                             <Button
442:                                 key={section}
443:                                 variant={activeSection === section ? "default" : "outline"}
444:                                 size="sm"
445:                                 onClick={() => setActiveSection(section)}
446:                                 className="flex items-center gap-2"
447:                             >
448:                                 <span>{getSectionIcon(section)}</span>
449:                                 <span className="capitalize">
450:                                     {section.replace(/([A-Z])/g, " $1")}
451:                                 </span>
452:                             </Button>
453:                         )
454:                     )}
455:                 </div>
456:                 <div className="flex gap-2 flex-wrap">
457:                     <Dialog open={isAddDialogOpen} onOpenChange={setIsAddDialogOpen}>
458:                         <DialogTrigger asChild>
459:                             <Button
460:                                 variant="outline"
461:                                 size="sm"
462:                                 className="bg-green-50 border-green-200 text-green-700 hover:bg-green-100"
463:                             >

```

```

464:         <Plus className="h-4 w-4 mr-2" />
465:         Add New
466:     </Button>
467: </DialogTrigger>
468: <DialogContent className="max-w-2xl">
469:     <DialogHeader>
470:         <DialogTitle>
471:             Add New{" "}
472:             {getSectionTitle(activeSection).replace(/[\^w\s]/gi, "")}{"} " }
473:             Item
474:         </DialogTitle>
475:         <DialogDescription>
476:             Enter the details for the new nutrient in the{" "}
477:             {activeSection} section.
478:         </DialogDescription>
479:     </DialogHeader>
480:     <div className="space-y-6 py-4">
481:         <div className="space-y-2">
482:             <Label htmlFor="nutrientName">Nutrient Name *</Label>
483:             <Input
484:                 id="nutrientName"
485:                 value={newNutrient.name}
486:                 onChange={(e) =>
487:                     setNewNutrient({ ...newNutrient, name: e.target.value })
488:                 }
489:                 placeholder="e.g., Vitamin E, Selenium, etc."
490:                 className="border-2 focus:border-green-500"
491:             />
492:         </div>
493:
494:         <div className="grid grid-cols-2 gap-4">
495:             <div className="space-y-2">
496:                 <Label htmlFor="nutrientScore">Score (1-10)</Label>
497:                 <Input
498:                     id="nutrientScore"
499:                     type="number"
500:                     min="1"
501:                     max="10"
502:                     value={newNutrient.score}
503:                     onChange={(e) =>
504:                         setNewNutrient({
505:                             ...newNutrient,
506:                             score: Math.max(
507:                                 1,
508:                                 Math.min(10, Number.parseInt(e.target.value) || 1)
509:                             ),
510:                         })
511:                     }
512:                     className="border-2 focus:border-green-500"
513:                 />
514:             </div>
515:             <div className="space-y-2">
516:                 <Label htmlFor="nutrientImpact">Health Impact</Label>
517:                 <Input
518:                     id="nutrientImpact"
519:                     value={newNutrient.healthImpact}
520:                     onChange={(e) =>
521:                         setNewNutrient({
522:                             ...newNutrient,
523:                             healthImpact: e.target.value,
524:                         })
525:                     }
526:                     placeholder="e.g., Skin & Vision"
527:                     className="border-2 focus:border-green-500"
528:                 />
529:             </div>
530:         </div>
531:
532:         <div className="space-y-2">
533:             <Label htmlFor="nutrientIntake">Intake Level</Label>
534:             <Select
535:                 value={newNutrient.intakeLevel}
536:                 onValueChange={(value) =>

```

```

537:         setNewNutrient({ ...newNutrient, intakeLevel: value })
538:     }
539: >
540:     <SelectTrigger className="border-2 focus:border-green-500">
541:         <SelectValue />
542:     </SelectTrigger>
543:     <SelectContent>
544:         <SelectItem value="ENHANCED INTAKE">
545:             ENHANCED INTAKE
546:         </SelectItem>
547:         <SelectItem value="NORMAL INTAKE">
548:             NORMAL INTAKE
549:         </SelectItem>
550:         <SelectItem value="RESTRICTED INTAKE">
551:             RESTRICTED INTAKE
552:         </SelectItem>
553:         <SelectItem value="ENHANCED INTAKE (METHYLCOBALAMIN)">
554:             ENHANCED INTAKE (METHYLCOBALAMIN)
555:         </SelectItem>
556:         <SelectItem value="ENHANCED INTAKE (L METHYLFOLATE)">
557:             ENHANCED INTAKE (L METHYLFOLATE)
558:         </SelectItem>
559:         <SelectItem value="ENHANCED INTAKE & SUN EXPOSURE">
560:             ENHANCED INTAKE & SUN EXPOSURE
561:         </SelectItem>
562:         <SelectItem value="ENHANCED INTAKE (VEG SOURCES)">
563:             ENHANCED INTAKE (VEG SOURCES)
564:         </SelectItem>
565:     </SelectContent>
566: </Select>
567: </div>
568:
569: <div className="space-y-2">
570:     <Label htmlFor="nutrientSource">Source</Label>
571:     <Select
572:         value={newNutrient.source}
573:         onChange={(value) =>
574:             setNewNutrient({ ...newNutrient, source: value })
575:         }
576:     >
577:         <SelectTrigger className="border-2 focus:border-green-500">
578:             <SelectValue />
579:         </SelectTrigger>
580:         <SelectContent>
581:             <SelectItem value="DIET">DIET</SelectItem>
582:             <SelectItem value="SUPPLEMENTS">SUPPLEMENTS</SelectItem>
583:             <SelectItem value="DIET & SUPPLEMENTS">
584:                 DIET & SUPPLEMENTS
585:             </SelectItem>
586:             <SelectItem value="DIET & SUN EXPOSURE">
587:                 DIET & SUN EXPOSURE
588:             </SelectItem>
589:             <SelectItem value="ENHANCED INTAKE (VEG/FISH OIL) & DIET">
590:                 ENHANCED INTAKE (VEG/FISH OIL) & DIET
591:             </SelectItem>
592:         </SelectContent>
593:     </Select>
594: </div>
595: </div>
596: <DialogFooter>
597:     <Button
598:         variant="outline"
599:         onClick={() => {
600:             setIsAddDialogOpen(false);
601:             resetAddForm();
602:         }}
603:     >
604:         Cancel
605:     </Button>
606:     <Button
607:         onClick={handleAddNutrient}
608:         disabled={!newNutrient.name.trim()}
609:     >

```

```

610:             Add Nutrient
611:         </Button>
612:     </DialogFooter>
613: </DialogContent>
614: </Dialog>
615:     <Button onClick={onSave} size="sm">
616:         <Save className="h-4 w-4 mr-2" />
617:         Save Changes
618:     </Button>
619: </div>
620: </div>
621:
622:     { /* Section Content */ }
623:     <div className="space-y-6">
624:         <h3 className="text-xl font-semibold text-gray-800 border-b-2 border-green-200 pb-2">
625:             {getSectionTitle(activeSection)}
626:         </h3>
627:         <div className="grid md:grid-cols-2 lg:grid-cols-3 gap-6">
628:             {Object.entries(nutritionData[activeSection]).map(([key, item]) =>
629:                 renderNutrientField(
630:                     activeSection,
631:                     key,
632:                     item as NutrientData,
633:                     key
634:                         .replace(/[A-Z]/g, " $1")
635:                         .replace(/^.\/, (str) => str.toUpperCase())
636:                 )
637:             )}
638:         </div>
639:         {Object.keys(nutritionData[activeSection]).length === 0 && (
640:             <div className="text-center py-12 bg-gray-50 rounded-lg border-2 border-dashed border-gray-300">
641:                 <div className="text-gray-500 text-lg mb-2">
642:                     No items in this section
643:                 </div>
644:                 <div className="text-gray-400 text-sm">
645:                     Click "Add New" to add your first nutrient
646:                 </div>
647:             </div>
648:         )}
649:     </div>
650: </CardContent>
651: </Card>
652: );
653: }

```

## **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:         required
101:     />
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>

```

```

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:                 variant: "success",
45:                 duration: 3000,
46:               })
47:             } else {
48:               // For download, the browser's print dialog usually offers "Save as PDF"
49:               // We trigger print, and the user saves it.
50:               printWindow.print()
51:               toast({
52:                 title: "Download Initiated",
53:                 description: "Please select 'Save as PDF' in the print dialog to download.",
54:                 duration: 3000,
55:               })
56:             }
57:             setIsGenerating(false)
58:           }, 1500) // Increased delay for better rendering
59:         }
60:         printWindow.onerror = () => {
61:           toast({
62:             title: "Error",
63:             description: "Could not open print window. Please check pop-up blockers.",
64:             variant: "destructive",
65:             duration: 3000,

```

```

66:         })
67:         setIsGenerating(false)
68:     }
69:   } else {
70:     toast({
71:       title: "Error",
72:       description: "Pop-up blocked or window could not be opened. Please allow pop-ups for this site.",
73:       variant: "destructive",
74:       duration: 3000,
75:     })
76:     setIsGenerating(false)
77:   }
78: } catch (error) {
79:   console.error("Error handling PDF:", error)
80:   toast({
81:     title: "Error",
82:     description: "An unexpected error occurred during PDF generation.",
83:     variant: "destructive",
84:     duration: 3000,
85:   })
86:   setIsGenerating(false)
87: }
88:
89: const previewPDF = () => {
90:   window.open("/report/preview", "_blank")
91:   toast({
92:     title: "Preview Opened",
93:     description: "Your report preview is open in a new tab.",
94:     duration: 3000,
95:   })
96: }
97:
98: return (
99:   <Card className="shadow-lg border-0 bg-white">
100:     <CardHeader className="bg-gradient-to-r from-red-500 to-pink-600 text-white rounded-t-lg">
101:       <CardTitle className="text-2xl">? PDF Generation</CardTitle>
102:       <CardDescription className="text-red-100">Generate and download professional PDF reports</CardDescription>
103:     </CardHeader>
104:     <CardContent className="space-y-6 p-8">
105:       <div className="grid md:grid-cols-3 gap-4">
106:         <Button
107:           onClick={previewPDF}
108:           variant="outline"
109:           className="h-20 flex flex-col items-center justify-center gap-2 bg-transparent"
110:           disabled={isGenerating}
111:         >
112:           <Eye className="h-6 w-6" />
113:           <span>Preview Report</span>
114:         </Button>
115:
116:         <Button
117:           onClick={() => handlePrintOrDownload("print")}
118:           disabled={isGenerating}
119:           className="h-20 flex flex-col items-center justify-center gap-2 bg-blue-600 hover:bg-blue-700"
120:         >
121:           <Printer className="h-6 w-6" />
122:           <span>{isGenerating ? "Generating..." : "Print Report"}</span>
123:         </Button>
124:
125:         <Button
126:           onClick={() => handlePrintOrDownload("download")}
127:           disabled={isGenerating}
128:           className="h-20 flex flex-col items-center justify-center gap-2 bg-green-600 hover:bg-green-700"
129:         >
130:           <Download className="h-6 w-6" />
131:           <span>{isGenerating ? "Preparing..." : "Download PDF"}</span>
132:         </Button>
133:       </div>
134:
135:       <div className="space-y-4">
136:         <h3 className="text-lg font-semibold text-gray-800">PDF Settings (for Print Dialog)</h3>

```

```

139:     <div className="grid md:grid-cols-2 gap-6">
140:       <div className="space-y-4">
141:         <div>
142:           <label className="block text-sm font-medium text-gray-700 mb-2">Page Format</label>
143:           <select
144:             value={pdfSettings.format}
145:             onChange={(e) => setPdfSettings((prev) => ({ ...prev, format: e.target.value })))}
146:             className="w-full border border-gray-300 rounded-md px-3 py-2 focus:outline-none focus:ring-2 focus:ring-blue-500">
147:             >
148:               <option value="A4">A4 (210 × 297 mm)</option>
149:               <option value="Letter">Letter (8.5 × 11 in)</option>
150:               <option value="Legal">Legal (8.5 × 14 in)</option>
151:             </select>
152:         </div>
153:
154:         <div>
155:           <label className="block text-sm font-medium text-gray-700 mb-2">Orientation</label>
156:           <select
157:             value={pdfSettings.orientation}
158:             onChange={(e) => setPdfSettings((prev) => ({ ...prev, orientation: e.target.value })))}
159:             className="w-full border border-gray-300 rounded-md px-3 py-2 focus:outline-none focus:ring-2 focus:ring-blue-500">
160:             >
161:               <option value="portrait">Portrait</option>
162:               <option value="landscape">Landscape</option>
163:             </select>
164:         </div>
165:
166:         <div>
167:           <label className="block text-sm font-medium text-gray-700 mb-2">Margins</label>
168:           <select
169:             value={pdfSettings.margins}
170:             onChange={(e) => setPdfSettings((prev) => ({ ...prev, margins: e.target.value })))}
171:             className="w-full border border-gray-300 rounded-md px-3 py-2 focus:outline-none focus:ring-2 focus:ring-blue-500">
172:             >
173:               <option value="none">None</option>
174:               <option value="minimum">Minimum</option>
175:               <option value="normal">Normal</option>
176:               <option value="maximum">Maximum</option>
177:             </select>
178:         </div>
179:       </div>
180:
181:     <div className="space-y-4">
182:       <div>
183:         <label className="block text-sm font-medium text-gray-700 mb-2">Quality</label>
184:         <select
185:           value={pdfSettings.quality}
186:           onChange={(e) => setPdfSettings((prev) => ({ ...prev, quality: e.target.value })))}
187:           className="w-full border border-gray-300 rounded-md px-3 py-2 focus:outline-none focus:ring-2 focus:ring-blue-500">
188:           >
189:             <option value="draft">Draft</option>
190:             <option value="normal">Normal</option>
191:             <option value="high">High</option>
192:             <option value="maximum">Maximum</option>
193:           </select>
194:       </div>
195:
196:       <div className="space-y-3">
197:         <label className="flex items-center">
198:           <input
199:             type="checkbox"
200:             checked={pdfSettings.includeGraphics}
201:             onChange={(e) => setPdfSettings((prev) => ({ ...prev, includeGraphics: e.target.checked })))}
202:             className="mr-2"
203:           />
204:           <span className="text-sm text-gray-700">Include Graphics</span>
205:         </label>
206:
207:         <label className="flex items-center">
208:           <input
209:             type="checkbox"
210:             checked={pdfSettings.includeColors}
211:             onChange={(e) => setPdfSettings((prev) => ({ ...prev, includeColors: e.target.checked })))}

```

```

212:         className="mr-2"
213:     />
214:     <span className="text-sm text-gray-700">Include Colors</span>
215: </label>
216: </div>
217: </div>
218: </div>
219: </div>
220:
221: { /* Report Information */ }
222: <div className="bg-gray-50 border border-gray-200 rounded-lg p-4">
223:   <h4 className="font-semibold text-gray-800 mb-3">? Report Information</h4>
224:   <div className="grid md:grid-cols-2 gap-4 text-sm">
225:     <div>
226:       <span className="font-medium">Patient:</span> {reportData.patientInfo.name || "Not specified"}
227:     </div>
228:     <div>
229:       <span className="font-medium">Sample Code:</span> {reportData.patientInfo.sampleCode || "Not specified"}
230:     </div>
231:     <div>
232:       <span className="font-medium">Report Date:</span> {reportData.patientInfo.reportDate || "Not specified"}
233:     </div>
234:     <div>
235:       <span className="font-medium">Total Pages:</span> ~47 pages (estimate)
236:     </div>
237:   </div>
238: </div>
239:
240: { /* Instructions */ }
241: <div className="bg-blue-50 border border-blue-200 rounded-lg p-4">
242:   <h4 className="font-semibold text-blue-800 mb-2">? PDF Generation Instructions</h4>
243:   <ul className="text-sm text-blue-700 space-y-1">
244:     <li>? Click "Preview Report" to review the content before generating PDF.</li>
245:     <li>? Use "Print Report" or "Download PDF" to open your browser's print dialog.</li>
246:     <li>? In the print dialog, select "Save as PDF" as the destination to download the report.</li>
247:     <li>
248:       ? For optimal appearance, ensure "Background graphics" is enabled and margins are set to "None" in the
249:       print settings.
250:     </li>
251:     <li>? The report is optimized for A4 paper size in portrait orientation.</li>
252:   </ul>
253: </div>
254: </CardContent>
255: </Card>
256: )
257: }

```

## 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 {
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 { Textarea } from "@/components/ui/textarea";
13: import { Button } from "@/components/ui/button";
14: import { Save, RotateCcw, Plus, Trash2, Settings } from "lucide-react";
15: import { useState } from "react";
16: import type { SportsAndFitness, ExerciseData } from "@/types/report-types";
17: import {
18:   Select,
19:   SelectTrigger,
20:   SelectValue,
21:   SelectContent,
22:   SelectItem,
23: } from "@/components/ui/select";
24: import {
25:   AlertDialog,
26:   AlertDialogAction,
27:   AlertDialogCancel,
28:   AlertDialogContent,
29:   AlertDialogDescription,
30:   AlertDialogFooter,
31:   AlertDialogHeader,
32:   AlertDialogTitle,
33:   AlertDialogTrigger,
34: } from "@/components/ui/alert-dialog";

```

```

35: import { useEffect } from "react";
36:
37: interface SportsFitnessAdminProps {
38:   sportsAndFitness: SportsAndFitness;
39:   updateSportsAndFitness: (
40:     section: keyof SportsAndFitness,
41:     field: string,
42:     data: Partial<ExerciseData>
43:   ) => void;
44:   onSave: () => void;
45:   onReset: () => void;
46: }
47:
48: const levelImageMap: Record<string, string> = {
49:   high: "/sports/high.png",
50:   low: "/sports/low.png",
51:   average: "/sports/average.png",
52:   normal: "/sports/normal.png",
53:   enhanced: "/sports/enhanced.png",
54: };
55:
56: export default function SportsFitnessAdmin({
57:   sportsAndFitness,
58:   updateSportsAndFitness,
59:   onSave,
60:   onReset,
61: }: SportsFitnessAdminProps) {
62:   const [activeSection, setActiveSection] =
63:     useState<keyof SportsAndFitness>("exerciseType");
64:   const [newFieldName, setNewFieldName] = useState("");
65:   const [newCategoryName, setNewCategoryName] = useState("");
66:   const [customImages, setCustomImages] = useState<Record<string, string>>({});
67:   const [showImageForm, setShowImageForm] = useState(false);
68:   const [deleteConfirm, setDeleteConfirm] = useState<{
69:     type: "category" | "field" | null;
70:     target: string;
71:     section?: keyof SportsAndFitness;
72:   }>({ type: null, target: "" });
73:
74:   const imageOptions = Object.keys(customImages);
75:
76:   const addNewCategory = () => {
77:     const key = newCategoryName.trim().replace(/\s+/g, "");
78:     if (!key || key in sportsAndFitness) {
79:       alert("Invalid or existing category name");
80:       return;
81:     }
82:     updateSportsAndFitness(key as keyof SportsAndFitness, "__init__", {
83:       level: "",
84:       description: "",
85:     });
86:     setNewCategoryName("");
87:     setActiveSection(key as keyof SportsAndFitness);
88:   };
89:
90:   const addNewField = () => {
91:     const fieldKey = newFieldName.toLowerCase().replace(/\s+/g, "");
92:     const firstGroup = sportsAndFitness[activeSection][0];
93:     if (firstGroup.fields[fieldKey]) {
94:       alert("Field already exists.");
95:       return;
96:     }
97:
98:     firstGroup.fields[fieldKey] = {
99:       label: newFieldName,
100:       level: "",
101:       description: "",
102:     };
103:
104:     setNewFieldName("");
105:     updateSportsAndFitness(activeSection, fieldKey, {});
106:   };
107:

```

```

108: const handleImageUpload = async (e: React.FormEvent<HTMLFormElement>) => {
109:   e.preventDefault();
110:
111:   const form = e.currentTarget;
112:   const formData = new FormData(form);
113:
114:   const label = (formData.get("imageLabel") as string)?.trim().toLowerCase();
115:   const file = formData.get("imageFile") as File;
116:
117:   if (!file || !label) {
118:     alert("Both label and image file are required.");
119:     return;
120:   }
121:
122:   const uploadData = new FormData();
123:   uploadData.append("file", file);
124:   uploadData.append("folder", "sports"); // tell backend to save in /sports
125:
126:   try {
127:     const response = await fetch("/api/sports-images", {
128:       method: "POST",
129:       body: uploadData,
130:     });
131:
132:     const text = await response.text();
133:     let result;
134:
135:     try {
136:       result = JSON.parse(text);
137:     } catch {
138:       console.error("Invalid JSON from server:", text);
139:       alert("Image upload failed: Server returned invalid response.");
140:       return;
141:     }
142:
143:     if (result.success) {
144:       setCustomImages((prev) => ({
145:         ...prev,
146:         [label]: result.url,
147:       }));
148:
149:       updateSportsAndFitness("customImages" as any, label, {
150:         label,
151:         url: result.url,
152:       });
153:
154:       form.reset(); // ? Safe now
155:     } else {
156:       alert("Upload failed: " + result.error);
157:     }
158:   } catch (err) {
159:     console.error("Upload error", err);
160:     alert("An error occurred while uploading.");
161:   }
162: };
163:
164: const deleteField = (field: string) => {
165:   setDeleteConfirm({
166:     type: "field",
167:     target: field,
168:     section: activeSection,
169:   });
170: };
171:
172: const deleteCategory = (section: keyof SportsAndFitness) => {
173:   setDeleteConfirm({
174:     type: "category",
175:     target: section,
176:   });
177: };
178:
179: const confirmDelete = () => {
180:   if (deleteConfirm.type === "field" && deleteConfirm.section) {

```

```

181:     const updatedGroups = sportsAndFitness[deleteConfirm.section].map(
182:       (group) => {
183:         if (group.fields[deleteConfirm.target]) {
184:           const newFields = { ...group.fields };
185:           delete newFields[deleteConfirm.target];
186:           return { ...group, fields: newFields };
187:         }
188:         return group;
189:       }
190:     );
191:
192:     updateSportsAndFitness(deleteConfirm.section, "__delete_field__", {
193:       fieldsOverride: updatedGroups,
194:     });
195:   } else if (deleteConfirm.type === "category") {
196:     updateSportsAndFitness(
197:       deleteConfirm.target as keyof SportsAndFitness,
198:       "__delete_category__",
199:       {}
200:     );
201:
202:     const remaining = Object.keys(sportsAndFitness).filter(
203:       (key) => key !== deleteConfirm.target
204:     );
205:     setActiveSection(
206:       (remaining[0] as keyof SportsAndFitness) || "exerciseType"
207:     );
208:   }
209:
210:   setDeleteConfirm({ type: null, target: "" });
211: };
212:
213: useEffect(() => {
214:   const fetchImages = async () => {
215:     try {
216:       const res = await fetch("/api/sports-images");
217:       const data = await res.json(); // ? MISSING
218:
219:       if (data.success) {
220:         const imageMap: Record<string, string> = {};
221:         data.images.forEach((img: { label: string; url: string }) => {
222:           imageMap[img.label.toLowerCase()] = img.url;
223:         });
224:         setCustomImages(imageMap);
225:       }
226:     } catch (err) {
227:       console.error("Failed to load images", err);
228:     }
229:   };
230:
231:   fetchImages();
232: }, []);
233:
234: const addCustomImage = (label: string, url: string) => {
235:   setCustomImages((prev) => ({ ...prev, [label]: url }));
236: };
237:
238: const renderExerciseField = (
239:   section: keyof SportsAndFitness,
240:   field: string,
241:   data: ExerciseData,
242:   title: string
243: ) => {
244:   const selectedImageKey = data.level?.toLowerCase();
245:   const imageUrl =
246:     customImages?.[selectedImageKey] || `/sports/${selectedImageKey}.png`;
247:
248:   return (
249:     <Card
250:       key={field}
251:       className="border border-green-200 hover:border-green-300 transition-colors"
252:     >
253:     <CardHeader className="pb-3">

```



```

254:     <div className="flex items-center justify-between">
255:       <CardTitle className="text-base font-medium text-green-800 truncate">
256:         {title}
257:       </CardTitle>
258:       <Button
259:         size="sm"
260:         variant="ghost"
261:         onClick={() => deleteField(field)}
262:         className="text-red-600 hover:bg-red-100 hover:text-red-700 flex-shrink-0 h-8 w-8 p-0"
263:       >
264:         <Trash2 className="h-4 w-4" />
265:       </Button>
266:     </div>
267:   </CardHeader>
268:   <CardContent className="space-y-3 pt-0">
269:     <div className="space-y-2">
270:       <Label className="text-xs font-medium text-gray-600">
271:         Image Type
272:       </Label>
273:       <Select
274:         value={data.level}
275:         onChange={(value) =>
276:           updateSportsAndFitness(section, field, { level: value })
277:         }
278:       >
279:         <SelectTrigger className="h-9 text-sm">
280:           <SelectValue placeholder="Select level" />
281:         </SelectTrigger>
282:         <SelectContent>
283:           {imageOptions.map((option) => {
284:             const cleanLabel = option.replace(/^\d+$/, ""); // remove timestamp prefix
285:             return (
286:               <SelectItem key={`image-${option}`} value={option}>
287:                 {cleanLabel.toUpperCase()}
288:               </SelectItem>
289:             );
290:           })}
291:         </SelectContent>
292:       </Select>
293:       {imageUrl && (
294:         <div className="flex justify-center">
295:           <img
296:             src={imageUrl}
297:             alt={data.level}
298:             className="w-16 h-auto rounded border"
299:           />
300:         </div>
301:       )}
302:     </div>
303:     <div className="space-y-2">
304:       <Label className="text-xs font-medium text-gray-600">
305:         Description
306:       </Label>
307:       <Textarea
308:         value={data.description}
309:         onChange={(e) =>
310:           updateSportsAndFitness(section, field, {
311:             description: e.target.value,
312:           })
313:         }
314:         rows={2}
315:         className="text-xs resize-none"
316:         placeholder="Enter description..."
317:       />
318:     </div>
319:   </CardContent>
320: </Card>
321: );
322: };
323:
324: const getSectionTitle = (section: keyof SportsAndFitness) =>
325:   section.replace(/[A-Z]/g, " $1").replace(/^./, (s) => s.toUpperCase());
326:

```

```

327: const getSectionIcon = (section: keyof SportsAndFitness) => {
328:   if (section.toLowerCase().includes("performance")) return "?";
329:   if (section.toLowerCase().includes("exercise")) return "???"
330:   return "?";
331: };
332:
333: return (
334:   <div className="w-full max-w-7xl mx-auto">
335:     <Card className="shadow-lg border-0 bg-white">
336:       {/* Header */}
337:       <CardHeader className="bg-gradient-to-r from-green-500 to-emerald-600 text-white">
338:         <div className="flex flex-col sm:flex-row sm:items-center sm:justify-between gap-4">
339:           <div>
340:             <CardTitle className="text-xl sm:text-2xl">
341:               ??? Sports & Fitness
342:             </CardTitle>
343:             <CardDescription className="text-green-100 text-sm">
344:               Configure exercise type suitability and performance factors
345:             </CardDescription>
346:           </div>
347:           <div className="flex gap-2">
348:             <Button
349:               onClick={onReset}
350:               variant="outline"
351:               size="sm"
352:               className="bg-white/10 border-white/20 text-white hover:bg-white/20"
353:             >
354:               <RotateCcw className="h-4 w-4 mr-2" />
355:               Reset
356:             </Button>
357:             <Button
358:               onClick={onSave}
359:               size="sm"
360:               className="bg-white text-green-600 hover:bg-gray-100"
361:             >
362:               <Save className="h-4 w-4 mr-2" />
363:               Save Changes
364:             </Button>
365:           </div>
366:         </div>
367:       </CardHeader>
368:
369:       <CardContent className="p-4 sm:p-6 space-y-6">
370:         {/* Category Navigation */}
371:         <div className="space-y-4">
372:           <div className="flex flex-col lg:flex-row lg:items-center lg:justify-between gap-4">
373:             <div className="flex flex-wrap gap-2">
374:               {(
375:                 Object.keys(sportsAndFitness) as Array<keyof SportsAndFitness>
376:               ).map((section) => (
377:                 <div key={section} className="relative">
378:                   <Button
379:                     variant={
380:                       activeSection === section ? "default" : "outline"
381:                     }
382:                     size="sm"
383:                     onClick={() => setActiveSection(section)}
384:                     className="flex items-center gap-2 pr-8 text-xs sm:text-sm"
385:                   >
386:                     <span>{getSectionIcon(section)}</span>
387:                     <span className="capitalize hidden sm:inline">
388:                       {section.replace(/([A-Z])/g, " $1")}
389:                     </span>
390:                     <span className="capitalize sm:hidden">
391:                       {section.slice(0, 8)}...
392:                     </span>
393:                   </Button>
394:                   <button
395:                     onClick={() => deleteCategory(section)}
396:                     className="absolute -right-1 -top-1 bg-red-500 text-white rounded-full w-5 h-5 flex i
397:                     title="Delete Category"
398:                   >
399:                     ?

```

```

400:         </button>
401:     </div>
402:   )})
403: </div>
404:
405: <div className="flex flex-col sm:flex-row gap-2">
406:   <Input
407:     value={newCategoryName}
408:     onChange={(e) => setNewCategoryName(e.target.value)}
409:     placeholder="New category name"
410:     className="w-full sm:w-52 h-9 text-sm"
411:   />
412:   <Button size="sm" onClick={addNewCategory} className="h-9">
413:     <Plus className="h-4 w-4 mr-1" /> Add Category
414:   </Button>
415: </div>
416: </div>
417:
418: { /* Field Management */ }
419: <div className="flex flex-col sm:flex-row gap-2 items-start sm:items-center">
420:   <Input
421:     value={newFieldName}
422:     onChange={(e) => setNewFieldName(e.target.value)}
423:     placeholder="New field name"
424:     className="w-full sm:w-64 h-9 text-sm"
425:   />
426:   <Button
427:     size="sm"
428:     onClick={addNewField}
429:     className="h-9 w-full sm:w-auto"
430:   >
431:     <Plus className="h-4 w-4 mr-1" /> Add Field
432:   </Button>
433: </div>
434:
435: { /* Custom Image Management */ }
436: <div className="rounded-lg justify-start">
437:   <div className="flex items-center mb-3">
438:     <h4 className="text-sm font-medium mr-3 text-gray-700">
439:       Custom Images
440:     </h4>
441:     <Button
442:       size="sm"
443:       variant="outline"
444:       onClick={() => setShowImageForm(!showImageForm)}
445:       className="h-8"
446:     >
447:       <Plus className="h-4 w-4 mr-1" />
448:       {showImageForm ? "Hide" : "Add Image"}
449:     </Button>
450:   </div>
451:
452:   {showImageForm && (
453:     <form
454:       onSubmit={handleImageUpload}
455:       encType="multipart/form-data"
456:       className="flex flex-col sm:flex-row gap-2 items-center"
457:     >
458:       <Input
459:         type="text"
460:         name="imageLabel"
461:         placeholder="Image Name (e.g. dumbbell)"
462:         className="w-full sm:w-40 h-9 text-sm"
463:         required
464:       />
465:       <Input
466:         type="file"
467:         name="imageFile"
468:         accept="image/*"
469:         className="w-full sm:flex-1 h-9 text-sm"
470:         required
471:       />
472:       <Button

```

```

473:         type="submit"
474:         size="sm"
475:         className="h-9 w-full sm:w-auto"
476:     >
477:         <Save className="h-4 w-4 mr-2" />
478:         Upload
479:     </Button>
480: </form>
481: }}
482: </div>
483: </div>
484:
485: { /* Content Area */ }
486: <div className="space-y-6">
487:     {Array.isArray(sportsAndFitness[activeSection]) &&
488:     sportsAndFitness[activeSection].map((group, groupIndex) => (
489:         <div key={groupIndex} className="space-y-4">
490:             <div className="flex items-center justify-between">
491:                 <h4 className="text-base sm:text-lg font-medium text-gray-700 border-l-4 border-green-400">
492:                     {group.title}
493:                 </h4>
494:                 <span className="text-xs text-gray-500 bg-gray-100 px-2 py-1 rounded">
495:                     {Object.keys(group.fields).length} items
496:                 </span>
497:             </div>
498:
499:             <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-3 gap-4">
500:                 {Object.entries(group.fields).map(([fieldKey, fieldData]) =>
501:                     renderExerciseField(
502:                         activeSection,
503:                         fieldKey,
504:                         fieldData,
505:                         fieldData.label
506:                     )
507:                 )}
508:             </div>
509:         </div>
510:     )]}
511:
512:     {(!Array.isArray(sportsAndFitness[activeSection]) ||
513:     sportsAndFitness[activeSection].length === 0) && (
514:         <div className="text-center py-12 text-gray-500">
515:             <div className="text-4xl mb-4">?</div>
516:             <p className="text-lg font-medium mb-2">No fields available</p>
517:             <p className="text-sm">Add some fields to get started</p>
518:         </div>
519:     )}
520: </div>
521: </CardContent>
522: </Card>
523:
524: { /* Delete Confirmation Dialog */ }
525: <AlertDialog
526:     open={deleteConfirm.type !== null}
527:     onOpenChange={() => setDeleteConfirm({ type: null, target: "" })}
528: >
529:     <AlertDialogContent>
530:         <AlertDialogHeader>
531:             <AlertDialogTitle>Confirm Deletion</AlertDialogTitle>
532:             <AlertDialogDescription>
533:                 {deleteConfirm.type === "category"
534:                 ? `Are you sure you want to delete the category "${deleteConfirm.target}"? This action cannot be undone`
535:                 : `Are you sure you want to delete the field "${deleteConfirm.target}"? This action cannot be undone`}
536:             </AlertDialogDescription>
537:         </AlertDialogHeader>
538:         <AlertDialogFooter>
539:             <AlertDialogCancel>Cancel</AlertDialogCancel>
540:             <AlertDialogAction
541:                 onClick={confirmDelete}
542:                 className="bg-red-600 hover:bg-red-700"
543:             >
544:                 Delete
545:             </AlertDialogAction>

```

```

546:         </AlertDialogFooter>
547:     </AlertDialogContent>
548: </AlertDialog>
549: </div>
550: );
551: }

```

## 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 c
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: const defaultImageMap: Record<string, string> = {
12:   high: "/sports/high.png",
13:   low: "/sports/low.png",
14:   average: "/sports/average.png",
15:   normal: "/sports/normal.png",
16:   enhanced: "/sports/enhanced.png",
17:   default: "/sports/default.png",
18: };
19:
20: interface ComprehensiveReportViewerProps {
21:   reportData: ComprehensiveReportData;
22: }
23:
24: const SectionTitle = ({ title, icon }: { title: string; icon: string }) => (
25:   <div className="w-full mb-8 mt-12 first:mt-0">
26:     <h2 className="text-2xl sm:text-3xl font-bold text-gray-800 mb-6 flex flex-col sm:flex-row items-start">
27:       <span className="text-3xl sm:text-4xl">{icon}</span>
28:       <span className="break-words">{title}</span>
29:     </h2>
30:   </div>
31: );
32:
33: const SubSectionTitle = ({ title, icon }: { title: string; icon?: string }) => (
34:   <div className="w-full mb-6 mt-8">
35:     <h3 className="text-xl sm:text-2xl font-semibold text-gray-700 mb-4 flex flex-col sm:flex-row items-start">
36:       {icon} && <span className="text-xl sm:text-2xl">{icon}</span>
37:       <span className="break-words">{title}</span>
38:     </h3>
39:   </div>
40: );
41:
42: const DataCard = ({
43:   title,
44:   children,

```

```

45:   className = "",
46: }: {
47:   title: string;
48:   children: React.ReactNode;
49:   className?: string;
50: }) => (
51:   <Card
52:     className={`border-2 border-gray-200 bg-gray-50/50 shadow-sm h-fit ${className}`}
53:   >
54:     <CardHeader className="pb-3">
55:       <CardTitle className="text-base sm:text-lg font-semibold text-gray-800 break-words">
56:         {title}
57:       </CardTitle>
58:     </CardHeader>
59:     <CardContent className="text-sm text-gray-700 space-y-2">
60:       {children}
61:     </CardContent>
62:   </Card>
63: );
64:
65: export default function ComprehensiveReportViewer({
66:   reportData,
67: }: ComprehensiveReportViewerProps) {
68:   const {
69:     patientInfo,
70:     content,
71:     settings,
72:     dynamicDietFieldDefinitions,
73:     patientDietAnalysisResults,
74:     nutritionData,
75:     sportsAndFitness,
76:     lifestyleConditions,
77:     metabolicCore,
78:     digestiveHealth,
79:     genesAndAddiction,
80:     sleepAndRest,
81:     allergiesAndSensitivity,
82:     geneTestResults,
83:     preventiveHealth,
84:     familyGeneticImpact,
85:     summaries,
86:   } = reportData;
87:
88:   const getImpactColor = (impact: string) => {
89:     if (
90:       impact.toLowerCase().includes("high") ||
91:       impact.toLowerCase().includes("increased")
92:     ) {
93:       return "bg-red-100 text-red-800 border-red-300";
94:     }
95:     if (
96:       impact.toLowerCase().includes("low") ||
97:       impact.toLowerCase().includes("reduced")
98:     ) {
99:       return "bg-green-100 text-green-800 border-green-300";
100:     }
101:     if (
102:       impact.toLowerCase().includes("normal") ||
103:       impact.toLowerCase().includes("average") ||
104:       impact.toLowerCase().includes("balanced")
105:     ) {
106:       return "bg-blue-100 text-blue-800 border-blue-300";
107:     }
108:     return "bg-gray-100 text-gray-800 border-gray-300";
109:   };
110:
111:   const getStatusColor = (status: "strength" | "improvement") => {
112:     return status === "strength"
113:       ? "bg-green-100 text-green-800 border-green-300"
114:       : "bg-red-100 text-red-800 border-red-300";
115:   };
116:
117:   // Helper to group dynamic diet fields by category

```

```

118: const groupedDietFields = patientDietAnalysisResults.reduce((acc, result) => {
119:   const fieldDef = dynamicDietFieldDefinitions.find(
120:     (def) => def.id === result.fieldId
121:   );
122:   if (fieldDef) {
123:     if (!acc[fieldDef.category]) {
124:       acc[fieldDef.category] = [];
125:     }
126:     acc[fieldDef.category].push({ ...result, label: fieldDef.label });
127:   }
128:   return acc;
129: }, {} as Record<string, (typeof patientDietAnalysisResults)[0] & { label: string }[]>);
130:
131: return (
132:   <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">
133:     { /* Report Header */ }
134:     <header
135:       className="text-center mb-8 sm:mb-12 py-6 sm:py-8 rounded-lg px-4"
136:       style={{ backgroundColor: settings.headerColor, color: "#fff" }}
137:     >
138:       <h1
139:         className="text-3xl sm:text-4xl lg:text-5xl font-extrabold mb-2 break-words"
140:         style={{ fontFamily: settings.fonts.primary }}
141:       >
142:         {settings.title}
143:       </h1>
144:       <p
145:         className="text-lg sm:text-xl lg:text-2xl font-light mb-4"
146:         style={{ fontFamily: settings.fonts.secondary }}
147:       >
148:         {settings.subtitle}
149:       </p>
150:       <div className="space-y-2 text-sm sm:text-base lg:text-lg">
151:         <p style={{ fontFamily: settings.fonts.secondary }}>
152:           Patient: { " " }
153:           <span className="font-semibold break-words">
154:             {patientInfo.name}
155:           </span>
156:         </p>
157:         <p style={{ fontFamily: settings.fonts.secondary }}>
158:           Sample Code: { " " }
159:           <span className="font-mono break-all">
160:             {patientInfo.sampleCode}
161:           </span>
162:         </p>
163:         <p
164:           className="text-xs sm:text-sm lg:text-base"
165:           style={{ fontFamily: settings.fonts.secondary }}
166:         >
167:           Report Date: {patientInfo.reportDate} | Generated by: { " " }
168:           {settings.companyName}
169:         </p>
170:       </div>
171:     </header>
172:
173:     { /* Patient Information */ }
174:     <SectionTitle title="Patient Information" icon="?" />
175:     <div className="grid grid-cols-1 sm:grid-cols-2 gap-4 sm:gap-6 mb-8">
176:       <DataCard title="Name">
177:         <p className="break-words">{patientInfo.name}</p>
178:       </DataCard>
179:       <DataCard title="Gender">
180:         <p>{patientInfo.gender}</p>
181:       </DataCard>
182:       <DataCard title="Birth Date">
183:         <p>{patientInfo.birthDate}</p>
184:       </DataCard>
185:       <DataCard title="Sample Code">
186:         <p className="font-mono break-all">{patientInfo.sampleCode}</p>
187:       </DataCard>
188:       <DataCard title="Sample Collection Date">
189:         <p>{patientInfo.sampleDate}</p>
190:       </DataCard>

```



```

191:         <DataCard title="Report Generation Date">
192:             <p>{patientInfo.reportDate}</p>
193:         </DataCard>
194:     </div>
195:
196:     {/* Authentication Section */}
197:     <div className="mt-8 mb-8">
198:         <Separator className="mb-6" />
199:         <h3 className="text-center font-bold mb-6 text-gray-600 text-lg">
200:             Report Authentication & Analytics
201:         </h3>
202:
203:         <div className="grid grid-cols-1 lg:grid-cols-2 gap-6 mb-6">
204:             <div className="text-center space-y-4">
205:                 <p className="text-sm font-semibold text-gray-700">
206:                     Genomic Data Analytics - Checked & Verified By
207:                 </p>
208:                 <div className="flex justify-center">
209:                     {patientInfo.signature1 ? (
210:                         <img
211:                             src={patientInfo.signature1 || "/placeholder.svg"}
212:                             alt="Primary Signature"
213:                             className="max-h-24 sm:max-h-32 w-auto object-contain"
214:                         />
215:                     ) : (
216:                         <p className="italic text-gray-500">No signature available</p>
217:                     )}
218:                 </div>
219:                 <p className="text-sm break-words">{patientInfo.checkedBy}</p>
220:             </div>
221:
222:             <div className="text-center space-y-4">
223:                 <p className="text-sm font-semibold text-gray-700">
224:                     Scientific Content - Checked & Verified By
225:                 </p>
226:                 <div className="flex justify-center">
227:                     {patientInfo.signature2 ? (
228:                         <img
229:                             src={patientInfo.signature2 || "/placeholder.svg"}
230:                             alt="Secondary Signature"
231:                             className="max-h-24 sm:max-h-32 w-auto object-contain"
232:                         />
233:                     ) : (
234:                         <p className="italic text-gray-500">No signature available</p>
235:                     )}
236:                 </div>
237:                 <p className="text-sm break-words">
238:                     {patientInfo.scientificContent}
239:                 </p>
240:             </div>
241:         </div>
242:
243:         <DataCard title="Disclaimer" className="mt-6">
244:             <p className="text-justify whitespace-pre-wrap break-words text-xs sm:text-sm">
245:                 {patientInfo.disclaimer}
246:             </p>
247:         </DataCard>
248:     </div>
249:
250:     <Separator className="my-8 sm:my-12" />
251:
252:     {/* Preface Section */}
253:     <div className="text-center mb-6">
254:         <h2 className="text-2xl sm:text-3xl font-bold mb-3 bg-blue-600 text-white py-3 px-4 rounded">
255:             PREFACE
256:         </h2>
257:     </div>
258:
259:     <div className="space-y-6 sm:space-y-8 mb-8">
260:         <DataCard title="Welcome Letter Introduction">
261:             <p className="text-justify whitespace-pre-line text-sm sm:text-base">
262:                 {content.introduction}
263:             </p>

```

```

264:     </DataCard>
265:
266:     <div className="text-center mb-6">
267:         <h2 className="text-2xl sm:text-3xl font-bold mb-3 bg-blue-600 text-white py-3 px-4 rounded">
268:             WELCOME TO THE WORLD OF GENOMICS
269:         </h2>
270:     </div>
271:
272:     { /* Genomics Explanation */ }
273:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-6 mb-8">
274:         <DataCard title="What is Genomics?">
275:             <p className="text-justify whitespace-pre-line text-sm sm:text-base">
276:                 {content.genomicsExplanation}
277:             </p>
278:         </DataCard>
279:         <div className="flex justify-center items-center">
280:             
285:         </div>
286:     </div>
287:
288:     { /* Genes & Health Impact */ }
289:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-6 mb-8">
290:         <DataCard title="Genes and Health Impact">
291:             <p className="text-justify whitespace-pre-line text-sm sm:text-base">
292:                 {content.genesHealthImpact}
293:             </p>
294:         </DataCard>
295:         <div className="flex justify-center items-center">
296:             
301:         </div>
302:     </div>
303:
304:     <Separator className="my-8 sm:my-12" />
305:
306:     <div className="text-center mb-6">
307:         <h2 className="text-2xl sm:text-3xl font-bold mb-3 bg-blue-600 text-white py-3 px-4 rounded">
308:             WHAT IS NUTRIGENOMICS
309:         </h2>
310:     </div>
311:
312:     { /* Fundamentals and PRS */ }
313:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-6 mb-8">
314:         <DataCard title="Fundamentals and PRS">
315:             <p className="text-justify whitespace-pre-line text-sm sm:text-base">
316:                 {content.fundamentalsPRS}
317:             </p>
318:         </DataCard>
319:         <div className="flex justify-center items-center">
320:             
325:         </div>
326:     </div>
327:
328:     { /* Utility for Doctors */ }
329:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-6 mb-8">
330:         <DataCard title="Utility for Doctors and Dietitians">
331:             <p className="text-justify whitespace-pre-line text-sm sm:text-base">
332:                 {content.utilityDoctors}
333:             </p>
334:         </DataCard>
335:         <div className="flex justify-center items-center">
336:             
341: </div>
342: </div>
343:
344: <Separator className="my-8 sm:my-12" />
345:
346: <div className="text-center mb-6">
347:     <h2 className="text-2xl sm:text-3xl font-bold mb-3 bg-blue-600 text-white py-3 px-4 rounded">
348:         ABOUT MICROARRAY
349:     </h2>
350: </div>
351:
352: { /* Microarray Explanation */}
353: <div className="grid grid-cols-1 lg:grid-cols-2 gap-6 mb-8">
354:     <DataCard title="Microarray Explanation">
355:         <p className="text-justify whitespace-pre-line text-sm sm:text-base">
356:             {content.microarrayExplanation}
357:         </p>
358:     </DataCard>
359:     <div className="flex justify-center items-center">
360:         
365:     </div>
366: </div>
367:
368: { /* Your Microarray Data */}
369: <div className="grid grid-cols-1 lg:grid-cols-2 gap-6 mb-8">
370:     <DataCard title="Your Microarray Data">
371:         <p className="text-justify whitespace-pre-line text-sm sm:text-base">
372:             {content.microarrayData}
373:         </p>
374:     </DataCard>
375:     <div className="flex justify-center items-center">
376:         
381:     </div>
382: </div>
383: </div>
384:
385: <Separator className="my-8 sm:my-12" />
386: <div className="text-center mb-6">
387:     <h2 className="text-2xl sm:text-3xl font-bold mb-3 bg-blue-600 text-white py-3 px-4 rounded">
388:         TABLE OF CONTENT
389:     </h2>
390: </div>
391:
392: {reportData?.categories?.map((category) => {
393:     const columns: string[][] = [[], [], []];
394:     category.parameters.forEach((param, index) => {
395:         columns[index % 3].push(param);
396:     });
397:
398:     return (
399:         <div key={category.id} className="mb-8 border-b border-gray-300 pb-6">
400:             <div className="flex flex-col lg:flex-row gap-6">
401:                 { /* Title and Image Section */}
402:                 <div className="lg:w-1/4 w-full">
403:                     <div className="flex flex-col sm:flex-row lg:flex-col items-center gap-4 mb-4 lg:mb-0">
404:                         <h2 className="text-lg font-bold text-gray-800 uppercase text-center lg:text-left break-w
405:                             {category.category}
406:                         </h2>
407:                         {category.imageUrl && (
408:                             <img
409:                                 src={category.imageUrl || "/placeholder.svg"}

```

```

410:         alt={category.category}
411:         className="w-16 h-16 object-cover rounded-full border flex-shrink-0"
412:     />
413:     })
414: </div>
415: </div>
416:
417:     { /* Parameters Section */ }
418:     <div className="lg:w-3/4 w-full">
419:         <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-3 gap-4">
420:             {columns.map((col, colIndex) => (
421:                 <ul key={colIndex} className="list-none space-y-2">
422:                     {col.map((param, idx) => (
423:                         <li
424:                             key={idx}
425:                             className="text-gray-800 text-sm break-words"
426:                         >
427:                             {param}
428:                         </li>
429:                     ))}
430:                 </ul>
431:             ))}
432:         </div>
433:     </div>
434: </div>
435: </div>
436: );
437: }}}
438:
439: { /* <Separator className="my-8 sm:my-12" /> */ }
440:
441: <div className="text-center mb-6">
442:     <h2 className="text-2xl sm:text-3xl font-bold mb-3 bg-blue-600 text-white py-3 px-4 rounded">
443:         DIET
444:     </h2>
445: </div>
446:
447: { /* Dynamic Diet Analysis */ }
448: <SectionTitle title="Diet Analysis" icon="?" />
449: {Object.keys(groupedDietFields).length === 0 && (
450:     <p className="text-center text-gray-500 italic mb-8">
451:         No diet analysis results available.
452:     </p>
453: )}
454: {Object.entries(groupedDietFields).map(([category, fields]) => (
455:     <React.Fragment key={category}>
456:         <SubSectionTitle title={category} icon="?" />
457:         <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
458:             {fields.map((data, index) => (
459:                 <DataCard key={index} title={data.label}>
460:                     <div className="space-y-1">
461:                         <p>
462:                             <strong>Score:</strong> {data.score}/10
463:                         </p>
464:                         <p>
465:                             <strong>Level:</strong> {data.level}
466:                         </p>
467:                     </div>
468:                     <p className="font-semibold">Recommendation:</p>
469:                     <ul className="mt-1 space-y-1">
470:                         {data.recommendations ? (
471:                             ([ "LOW", "NORMAL", "HIGH" ] as const).map((level) => (
472:                                 <li key={level}>
473:                                     <span
474:                                         className={` ${
475:                                             data.selectedLevel === level
476:                                             ? "text-black"
477:                                             : "text-gray-400"
478:                                         }`}
479:                                     >
480:                                         {level}: {data.recommendations[level]}
481:                                     </span>
482:                                 </li>

```

```

483:         ))
484:       ) : (
485:         <li className="text-black">{data.recommendation}</li>
486:       )}
487:     </ul>
488:   </div>
489: </div>
490: </DataCard>
491:   )})
492: </div>
493: </React.Fragment>
494: )})
495:
496: <Separator className="my-8 sm:my-12" />
497: <div className="text-center mb-6">
498:   <h2 className="text-2xl sm:text-3xl font-bold mb-3 bg-blue-600 text-white py-3 px-4 rounded">
499:     NUTRITION
500:   </h2>
501: </div>
502:
503: {/* Nutrition Data */}
504: <SectionTitle title="Nutrition Analysis" icon="?" />
505:
506: <SubSectionTitle title="Vitamins" icon="?" />
507: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
508:   {Object.entries(nutritionData.vitamins).map(([key, data]) => (
509:     <DataCard
510:       key={key}
511:       title={key
512:         .replace(/[A-Z])/g, " $1")
513:         .replace(/^./, (str) => str.toUpperCase())}
514:     >
515:       <div className="space-y-1">
516:         <p>
517:           <strong>Score:</strong> {data.score}/10
518:         </p>
519:         <p>
520:           <strong>Health Impact:</strong> {data.healthImpact}
521:         </p>
522:         <p>
523:           <strong>Intake Level:</strong> {data.intakeLevel}
524:         </p>
525:         <p>
526:           <strong>Source:</strong> {data.source}
527:         </p>
528:       </div>
529:     </DataCard>
530:   )})
531: </div>
532:
533: <SubSectionTitle title="Fatty Acids" icon="?" />
534: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
535:   {Object.entries(nutritionData.fattyAcids).map(([key, data]) => (
536:     <DataCard
537:       key={key}
538:       title={key
539:         .replace(/[A-Z])/g, " $1")
540:         .replace(/^./, (str) => str.toUpperCase())}
541:     >
542:       <div className="space-y-1">
543:         <p>
544:           <strong>Score:</strong> {data.score}/10
545:         </p>
546:         <p>
547:           <strong>Health Impact:</strong> {data.healthImpact}
548:         </p>
549:         <p>
550:           <strong>Intake Level:</strong> {data.intakeLevel}
551:         </p>
552:         <p>
553:           <strong>Source:</strong> {data.source}
554:         </p>
555:       </div>

```

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556:         </DataCard>
557:     )})
558: </div>
559:
560: <SubSectionTitle title="Essential Elements" icon="?" />
561: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
562:   {Object.entries(nutritionData.elements).map(([key, data]) => (
563:     <DataCard
564:       key={key}
565:       title={key
566:         .replace(/([A-Z])/g, " $1")
567:         .replace(/^.\/, (str) => str.toUpperCase())}
568:     >
569:       <div className="space-y-1">
570:         <p>
571:           <strong>Score:</strong> {data.score}/10
572:         </p>
573:         <p>
574:           <strong>Health Impact:</strong> {data.healthImpact}
575:         </p>
576:         <p>
577:           <strong>Intake Level:</strong> {data.intakeLevel}
578:         </p>
579:         <p>
580:           <strong>Source:</strong> {data.source}
581:         </p>
582:       </div>
583:     </DataCard>
584:   )})
585: </div>
586:
587: <SubSectionTitle title="Complex Nutrients" icon="?" />
588: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
589:   {Object.entries(nutritionData.complexNutrients).map(([key, data]) => (
590:     <DataCard
591:       key={key}
592:       title={key
593:         .replace(/([A-Z])/g, " $1")
594:         .replace(/^.\/, (str) => str.toUpperCase())}
595:     >
596:       <div className="space-y-1">
597:         <p>
598:           <strong>Score:</strong> {data.score}/10
599:         </p>
600:         <p>
601:           <strong>Health Impact:</strong> {data.healthImpact}
602:         </p>
603:         <p>
604:           <strong>Intake Level:</strong> {data.intakeLevel}
605:         </p>
606:         <p>
607:           <strong>Source:</strong> {data.source}
608:         </p>
609:       </div>
610:     </DataCard>
611:   )})
612: </div>
613:
614: <Separator className="my-8 sm:my-12" />
615: <div className="text-center mb-6">
616:   <h2 className="text-2xl sm:text-3xl font-bold mb-3 bg-blue-600 text-white py-3 px-4 rounded">
617:     SPORTS AND FITNESS
618:   </h2>
619: </div>
620:
621: <SubSectionTitle title="Exercise Type Suitability" icon="?????" />
622: <div className="space-y-8 mb-8">
623:   {Object.entries(sportsAndFitness).map(([sectionKey, groups]) => (
624:     <div key={sectionKey}>
625:       {/* <h2 className="text-2xl font-bold text-green-700 mb-4">
626:         {sectionKey
627:           .replace(/([A-Z])/g, " $1")
628:           .replace(/^.\/, (s) => s.toUpperCase())}

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629:         </h2> */}
630:
631:         {Array.isArray(groups) &&
632:         groups.map((group, groupIndex) => (
633:             <div key={groupIndex} className="space-y-4 mb-6">
634:                 <h3 className="text-xl font-semibold text-gray-800">
635:                     {group.title}
636:                 </h3>
637:
638:                 <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6">
639:                     {Object.entries(group.fields).map(
640:                         ([fieldKey, fieldData]) => {
641:                             const selectedImageKey = fieldData.level?.toLowerCase();
642:                             const imageUrl =
643:                                 defaultImageMap[selectedImageKey] ||
644:                                 "/sports/default.png";
645:
646:                             return (
647:                                 <div
648:                                     key={fieldKey}
649:                                     className="bg-white border border-green-200 p-4 rounded-lg shadow-sm"
650:                                 >
651:                                     <h4 className="text-lg font-semibold text-green-800 mb-2">
652:                                         {fieldKey
653:                                             .replace(/[A-Z]/g, " $1")
654:                                             .replace(/^./, (str) => str.toUpperCase())}
655:                                     </h4>
656:
657:                                     {imageUrl && (
658:                                         <img
659:                                             src={imageUrl}
660:                                             alt={fieldData.level}
661:                                             className="w-24 h-auto mb-2"
662:                                         />
663:                                     )}
664:
665:                                     <p className="text-sm">
666:                                         <strong>Level:</strong> {fieldData.level}
667:                                     </p>
668:                                     <p className="text-sm">
669:                                         <strong>Description:</strong>{" "}
670:                                         {fieldData.description}
671:                                     </p>
672:                                 </div>
673:                             );
674:                         }
675:                     )}
676:                 </div>
677:             </div>
678:         )]}
679:     </div>
680: )}
681: </div>
682:
683: <Separator className="my-8 sm:my-12" />
684:
685: {/* Lifestyle Conditions */}
686: <SectionTitle title="Lifestyle Conditions" icon="?" />
687:
688: <SubSectionTitle title="Heart & Vascular Health" icon="??" />
689: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
690:     {Object.entries(lifestyleConditions.heartVascularHealth).map(
691:         ([key, data]) => (
692:             <DataCard
693:                 key={key}
694:                 title={key
695:                     .replace(/[A-Z]/g, " $1")
696:                     .replace(/^./, (str) => str.toUpperCase())}
697:             >
698:                 <p>
699:                     <strong>Status:</strong>{" "}
700:                     <Badge className={getStatusColor(data.status)}>
701:                         {data.status}

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702:         </Badge>
703:     </p>
704: </DataCard>
705: )
706: }}
707: </div>
708:
709: <SubSectionTitle title="Diabetes (Diabetes & Obesity)" icon="?" />
710: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
711:   {Object.entries(lifestyleConditions.diabetes).map(([key, data]) => (
712:     <DataCard
713:       key={key}
714:       title={key
715:         .replace(/([A-Z])/g, " $1")
716:         .replace(/^.\/, (str) => str.toUpperCase())}
717:     >
718:       <p>
719:         <strong>Status:</strong>{ " "}
720:         <Badge className={getStatusColor(data.status)}>
721:           {data.status}
722:         </Badge>
723:       </p>
724:     </DataCard>
725:   ))}
726: </div>
727:
728: <SubSectionTitle title="Liver Health" icon="?" />
729: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
730:   {Object.entries(lifestyleConditions.liverHealth).map(([key, data]) => (
731:     <DataCard
732:       key={key}
733:       title={key
734:         .replace(/([A-Z])/g, " $1")
735:         .replace(/^.\/, (str) => str.toUpperCase())}
736:     >
737:       <p>
738:         <strong>Status:</strong>{ " "}
739:         <Badge className={getStatusColor(data.status)}>
740:           {data.status}
741:         </Badge>
742:       </p>
743:     </DataCard>
744:   ))}
745: </div>
746:
747: <SubSectionTitle title="Bone Health" icon="?" />
748: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
749:   {Object.entries(lifestyleConditions.boneHealth).map(([key, data]) => (
750:     <DataCard
751:       key={key}
752:       title={key
753:         .replace(/([A-Z])/g, " $1")
754:         .replace(/^.\/, (str) => str.toUpperCase())}
755:     >
756:       <p>
757:         <strong>Status:</strong>{ " "}
758:         <Badge className={getStatusColor(data.status)}>
759:           {data.status}
760:         </Badge>
761:       </p>
762:     </DataCard>
763:   ))}
764: </div>
765:
766: <SubSectionTitle title="Gut Health" icon="?" />
767: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
768:   {Object.entries(lifestyleConditions.gutHealth).map(([key, data]) => (
769:     <DataCard
770:       key={key}
771:       title={key
772:         .replace(/([A-Z])/g, " $1")
773:         .replace(/^.\/, (str) => str.toUpperCase())}
774:     >

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775:         <p>
776:             <strong>Status:</strong>{" "}
777:             <Badge className={getStatusColor(data.status)}>
778:                 {data.status}
779:             </Badge>
780:         </p>
781:     </DataCard>
782:   )}
783: </div>
784:
785: <SubSectionTitle title="Hormone System" icon="?" />
786: <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
787:   {Object.entries(lifestyleConditions.hormoneSystem).map(
788:     ([key, data]) => (
789:       <DataCard
790:         key={key}
791:         title={key
792:           .replace(/[A-Z])/g, " $1")
793:           .replace(/^../, (str) => str.toUpperCase())}
794:       >
795:         <p>
796:             <strong>Status:</strong>{" "}
797:             <Badge className={getStatusColor(data.status)}>
798:                 {data.status}
799:             </Badge>
800:         </p>
801:       </DataCard>
802:     )
803:   )}
804: </div>
805:
806: <Separator className="my-8 sm:my-12" />
807:
808: {/* Metabolic Core */}
809: <SectionTitle title="Metabolic Core" icon="?" />
810: <div className="space-y-6 mb-8">
811:   {Object.entries(metabolicCore).map(([key, data]) => (
812:     <Card
813:       key={key}
814:       className="border-2 border-purple-200 bg-purple-50/50 shadow-sm"
815:     >
816:       <CardHeader className="pb-3">
817:         <CardTitle className="text-base sm:text-lg font-semibold text-purple-800 flex flex-col sm:flex-row">
818:           <span className="break-words">
819:             {key
820:               .replace(/[A-Z])/g, " $1")
821:               .replace(/^../, (str) => str.toUpperCase())}
822:           </span>
823:           <Badge className={getImpactColor(data.impact)}>
824:             {data.impact}
825:           </Badge>
826:         </CardTitle>
827:       </CardHeader>
828:       <CardContent className="text-sm text-gray-700 space-y-2">
829:         <p>
830:             <strong>Genes:</strong>{" "}
831:             <span className="break-words">{data.genes.join(", ")}</span>
832:           </p>
833:         <p>
834:             <strong>Your Genotype:</strong>{" "}
835:             <span className="font-mono break-all">{data.genotype}</span>
836:           </p>
837:         <p>
838:             <strong>Advice:</strong>{" "}
839:             <span className="break-words">{data.advice}</span>
840:           </p>
841:       </CardContent>
842:     </Card>
843:   )}
844: </div>
845:
846: <Separator className="my-8 sm:my-12" />
847:

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```

848:     {/* Digestive Health */}
849:     <SectionTitle title="Digestive Health" icon="?" />
850:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
851:       {Object.entries(digestiveHealth).map(([key, data]) => (
852:         <DataCard
853:           key={key}
854:           title={key
855:             .replace(/([A-Z])/g, " $1")
856:             .replace(/^.\/, (str) => str.toUpperCase())}
857:         >
858:           <div className="space-y-1">
859:             <p>
860:               <strong>Level:</strong> {data.level}
861:             </p>
862:             <p>
863:               <strong>Description:</strong> {data.description}
864:             </p>
865:           </div>
866:         </DataCard>
867:       )]}
868:     </div>
869:
870:     <Separator className="my-8 sm:my-12" />
871:
872:     {/* Genes & Addiction */}
873:     <SectionTitle title="Genes & Addiction" icon="?" />
874:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
875:       {Object.entries(genesAndAddiction).map(([key, data]) => (
876:         <DataCard
877:           key={key}
878:           title={key
879:             .replace(/([A-Z])/g, " $1")
880:             .replace(/^.\/, (str) => str.toUpperCase())}
881:         >
882:           <div className="space-y-1">
883:             <p>
884:               <strong>Tendency:</strong> {data.tendency}
885:             </p>
886:             <p>
887:               <strong>Description:</strong> {data.description}
888:             </p>
889:           </div>
890:         </DataCard>
891:       )]}
892:     </div>
893:
894:     <Separator className="my-8 sm:my-12" />
895:
896:     {/* Sleep & Rest */}
897:     <SectionTitle title="Sleep & Rest" icon="?" />
898:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
899:       {Object.entries(sleepAndRest).map(([key, data]) => (
900:         <DataCard
901:           key={key}
902:           title={key
903:             .replace(/([A-Z])/g, " $1")
904:             .replace(/^.\/, (str) => str.toUpperCase())}
905:         >
906:           <div className="space-y-1">
907:             <p>
908:               <strong>Impact:</strong> {data.impact}
909:             </p>
910:             <p>
911:               <strong>Intervention:</strong> {data.intervention}
912:             </p>
913:           </div>
914:         </DataCard>
915:       )]}
916:     </div>
917:
918:     <Separator className="my-8 sm:my-12" />
919:
920:     {/* Allergies & Sensitivity */}

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921:     <SectionTitle title="Allergies & Sensitivity" icon="?" />
922:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
923:       {Object.entries(allergiesAndSensitivity)
924:         .filter(([key]) => key !== "generalAdvice")
925:         .map(([key, data]) => (
926:           <DataCard
927:             key={key}
928:             title={key
929:               .replace(/[A-Z])/g, " $1")
930:               .replace(/^../, (str) => str.toUpperCase())}
931:           >
932:             <p>
933:               <strong>Tendency:</strong> {(data as AllergyData).tendency}
934:             </p>
935:           </DataCard>
936:         ))}
937:     </div>
938:
939:     <DataCard title="General Advice" className="mt-6">
940:       <p className="text-justify break-words">
941:         {allergiesAndSensitivity.generalAdvice}
942:       </p>
943:     </DataCard>
944:
945:     <Separator className="my-8 sm:my-12" />
946:
947:     {/* Preventive Health */}
948:     <SectionTitle title="Preventive Health" icon="?" />
949:
950:     <SubSectionTitle title="Diagnostic Tests" icon="?" />
951:     <div className="grid grid-cols-1 lg:grid-cols-2 gap-4 sm:gap-6 mb-8">
952:       <DataCard title="Half-Yearly Tests">
953:         <ul className="list-disc list-inside space-y-1">
954:           {preventiveHealth.diagnosticTests.halfYearly.map((test, index) => (
955:             <li key={index} className="break-words">
956:               {test}
957:             </li>
958:           ))}
959:         </ul>
960:       </DataCard>
961:       <DataCard title="Yearly Tests">
962:         <ul className="list-disc list-inside space-y-1">
963:           {preventiveHealth.diagnosticTests.yearly.map((test, index) => (
964:             <li key={index} className="break-words">
965:               {test}
966:             </li>
967:           ))}
968:         </ul>
969:       </DataCard>
970:     </div>
971:
972:     <SubSectionTitle title="Nutritional Supplements" icon="?" />
973:     <DataCard title="Recommended Supplements">
974:       <ul className="list-disc list-inside space-y-1">
975:         {preventiveHealth.nutritionalSupplements.map((supplement, index) => (
976:           <li key={index} className="break-words">
977:             {supplement.supplement}{" "}
978:             {supplement.needed ? "(Needed)" : "(Optional)"}
979:           </li>
980:         ))}
981:       </ul>
982:     </DataCard>
983:
984:     <Separator className="my-8 sm:my-12" />
985:
986:     {/* Family Genetic Impact */}
987:     <SectionTitle title="Family Genetic Impact" icon="???????" />
988:     <div className="space-y-6 mb-8">
989:       {familyGeneticImpact.length === 0 && (
990:         <p className="text-center text-gray-500 italic">
991:           No family genetic impacts recorded.
992:         </p>
993:       )}

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994:     {familyGeneticImpact.map((impact, index) => (
995:         <Card
996:             key={index}
997:             className="border-2 border-blue-200 bg-blue-50/50 shadow-sm"
998:         >
999:             <CardHeader className="pb-3">
1000:                 <CardTitle className="text-base sm:text-lg font-semibold text-blue-800">
1001:                     Genetic Impact #{index + 1}
1002:                 </CardTitle>
1003:             </CardHeader>
1004:             <CardContent className="text-sm text-gray-700 space-y-2">
1005:                 <p>
1006:                     <strong>Gene:</strong>{" "}
1007:                     <span className="break-words">{impact.gene}</span>
1008:                 </p>
1009:                 <p>
1010:                     <strong>Normal/Common Alleles:</strong>{" "}
1011:                     <span className="break-words">{impact.normalAlleles}</span>
1012:                 </p>
1013:                 <p>
1014:                     <strong>Your Result:</strong>{" "}
1015:                     <span className="font-mono break-all">{impact.yourResult}</span>
1016:                 </p>
1017:                 <p>
1018:                     <strong>Health Impact:</strong>{" "}
1019:                     <span className="break-words">{impact.healthImpact}</span>
1020:                 </p>
1021:             </CardContent>
1022:         </Card>
1023:     )})
1024: </div>
1025:
1026: <Separator className="my-8 sm:my-12" />
1027:
1028: {/* Gene Test Results */}
1029: <SectionTitle title="Gene Test Results" icon="?" />
1030: <div className="space-y-6 mb-8">
1031:     {geneTestResults.length === 0 && (
1032:         <p className="text-center text-gray-500 italic">
1033:             No gene test results recorded.
1034:         </p>
1035:     )}
1036:     {geneTestResults.map((result, index) => (
1037:         <Card
1038:             key={index}
1039:             className="border-2 border-indigo-200 bg-indigo-50/50 shadow-sm"
1040:         >
1041:             <CardHeader className="pb-3">
1042:                 <CardTitle className="text-base sm:text-lg font-semibold text-indigo-800 break-words">
1043:                     Gene: {result.geneName}
1044:                 </CardTitle>
1045:             </CardHeader>
1046:             <CardContent className="text-sm text-gray-700 space-y-2">
1047:                 <p>
1048:                     <strong>Variation:</strong>{" "}
1049:                     <span className="font-mono break-all">{result.variation}</span>
1050:                 </p>
1051:                 <p>
1052:                     <strong>Result:</strong>{" "}
1053:                     <span className="font-mono break-all">{result.result}</span>
1054:                 </p>
1055:             </CardContent>
1056:         </Card>
1057:     )})
1058: </div>
1059:
1060: <Separator className="my-8 sm:my-12" />
1061:
1062: {/* Summaries */}
1063: <SectionTitle title="Summaries for Experts" icon="?" />
1064: <div className="space-y-6 mb-8">
1065:     <DataCard title="Nutrigenomics Summary">
1066:         <p className="text-justify break-words text-sm sm:text-base">

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1067:         {summaries.nutrigenomicsSummary}
1068:     </p>
1069: </DataCard>
1070: <DataCard title="Exercise Genomics Summary">
1071:   <p className="text-justify break-words text-sm sm:text-base">
1072:     {summaries.exerciseGenomicsSummary}
1073:   </p>
1074: </DataCard>
1075: </div>
1076:
1077: { /* Report Footer */ }
1078: <footer className="text-center mt-8 sm:mt-12 py-6 text-gray-600 text-xs sm:text-sm border-t border-g
1079:   <div className="space-y-2">
1080:     <p>
1081:       &copy; {new Date().getFullYear()} {settings.companyName}. All rights
1082:       reserved.
1083:     </p>
1084:     <p className="break-words">
1085:       Report Authentication: {patientInfo.reportAuth}
1086:     </p>
1087:   </div>
1088: </footer>
1089: </div>
1090: );
1091: }

```

## ■ 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}</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}</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/utills"
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/utils"
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:   />
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-  
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-gro
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-foregr
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 [&
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-px 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 fo
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-no
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-no
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 bg-white",
42:         className
43:       )}
44:       {...props}
45:     >
46:       {children}
47:       <DialogPrimitive.Close className="absolute right-4 top-4 rounded-sm opacity-70 ring-offset-background transition-opacity hover:opacity-100 focus:outline-none focus:ring-2 focus:ring-ring focus:ring-offset-2 disabled:cursor-not-allowed disabled:opacity-50" />
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 transit
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-ba
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-accent",
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-[state=open]:animate-in data-[state=closed]:animate-out data-[state=closed]:fade-out-0 data-[state=open]:fade-in-0",
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 focus-visible:outline-2 focus-visible:outline-blue-500",
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-none focus-visible:outline-2 focus-visible:outline-blue-500",
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-none focus-visible:outline-2 focus-visible:outline-blue-500",
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-medium",
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-]:opacity-0 data-[motion^=to-]:opacity-100",
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-hidden",
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 data-[state=hidden]:animate-out data-[state=hidden]:opacity-0",
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/utls"

```

```

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/utlis"
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:       onOpenChange: 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 [&gt;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={cn(
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={cn(
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 gro
245:         className
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
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={cn("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))]",
327:         "md:peer-data-[variant=inset]:m-2 md:peer-data-[variant=inset]:p-2",
328:         className
329:       )}
330:       {...props}
331:     />
332:   )
333: })
334: SidebarInset.displayName = "SidebarInset"
335:
336: const SidebarInput = React.forwardRef<
337:   React.ElementRef<typeof Input>,
338:   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]:border",
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 rounded
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: type CustomToastProps = {
54:   hideClose?: boolean;
55: } & React.ComponentPropsWithoutRef<typeof ToastPrimitives.Root> &
56:   VariantProps<typeof toastVariants>;
57:
58: const Toast = React.forwardRef<
59:   React.ElementRef<typeof ToastPrimitives.Root>,
60:   CustomToastProps
61: >(({ className, variant, hideClose, children, ...props }, ref) => {
62:   return (
63:     <ToastPrimitives.Root
64:       ref={ref}
65:       className={cn(toastVariants({ variant }), className)}
66:       duration={3000}
67:       {...props}
68:     >
69:       {children}
70:       {/* Use ToastClose component instead of custom button */}
71:       {!hideClose && (
72:         <ToastPrimitives.Close className="absolute right-2 bottom-2 rounded-md p-1 text-foreground/50 trans
73:           <X className="h-4 w-4" />
74:         </ToastPrimitives.Close>
75:       )}
76:     </ToastPrimitives.Root>
77:   );
78: });
79: Toast.displayName = ToastPrimitives.Root.displayName;
80:
81: const ToastAction = React.forwardRef<
82:   React.ElementRef<typeof ToastPrimitives.Action>,
83:   React.ComponentPropsWithoutRef<typeof ToastPrimitives.Action>
84: >(({ className, ...props }, ref) => (
85:   <ToastPrimitives.Action
86:     ref={ref}
87:     className={cn(
88:       "inline-flex h-8 shrink-0 items-center justify-center rounded-md border bg-transparent px-3 text-sm f
89:       className
90:     )}
91:     {...props}
92:   />
93: ));
94: ToastAction.displayName = ToastPrimitives.Action.displayName;
95:
96: const ToastClose = React.forwardRef<
97:   React.ElementRef<typeof ToastPrimitives.Close>,
98:   React.ComponentPropsWithoutRef<typeof ToastPrimitives.Close>
99: >(({ className, ...props }, ref) => (
100:   <ToastPrimitives.Close
101:     ref={ref}
102:     className={cn(
103:       "absolute right-2 top-2 rounded-md p-1 text-foreground/50 opacity-0 transition-opacity hover:text-for
104:       className
105:     )}
106:     toast-close=""
107:     {...props}
108:   >
109:     <X className="h-4 w-4" />
110:   </ToastPrimitives.Close>
111: ));
112: ToastClose.displayName = ToastPrimitives.Close.displayName;

```

```

113:
114: const ToastTitle = React.forwardRef<
115:   React.ElementRef<typeof ToastPrimitives.Title>,
116:   React.ComponentPropsWithoutRef<typeof ToastPrimitives.Title>
117: >(({ className, ...props }, ref) => (
118:   <ToastPrimitives.Title
119:     ref={ref}
120:     className={cn("text-sm font-semibold", className)}
121:     {...props}
122:   />
123: ));
124: ToastTitle.displayName = ToastPrimitives.Title.displayName;
125:
126: const ToastDescription = React.forwardRef<
127:   React.ElementRef<typeof ToastPrimitives.Description>,
128:   React.ComponentPropsWithoutRef<typeof ToastPrimitives.Description>
129: >(({ className, ...props }, ref) => (
130:   <ToastPrimitives.Description
131:     ref={ref}
132:     className={cn("text-sm opacity-90", className)}
133:     {...props}
134:   />
135: ));
136: ToastDescription.displayName = ToastPrimitives.Description.displayName;
137:
138: type ToastProps = React.ComponentPropsWithoutRef<typeof Toast>;
139: type ToastActionElement = React.ReactElement<typeof ToastAction>;
140:
141: export {
142:   ToastProvider,
143:   ToastViewport,
144:   Toast,
145:   ToastTitle,
146:   ToastDescription,
147:   ToastAction,
148:   ToastClose,
149:   type ToastProps,
150:   type ToastActionElement,
151:   variantIcons,
152: };

```

## File: components\ui\toaster.tsx

```

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

```

```

29:         </div>
30:         {action}
31:     </Toast>
32:   )
33: }}
34:   <ToastViewport />
35: </ToastProvider>
36: );
37: }

```

## ■ 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/utlis"
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",
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 GeneticCategory {
2:   id: string;
3:   category: string;
4:   imageUrl: string;
5:   description: string;
6:   parameters: string[];
7:   isActive: boolean;
8:   order: number;
9: }
10:
11: export interface PatientInfo {
12:   name: string;
13:   gender: string;
14:   birthDate: string;
15:   sampleCode: string;
16:   sampleDate: string;
17:   reportDate: string;
18:   reportAuth: string;
19:   genomicAnalytics: string;
20:   checkedBy: string;
21:   scientificContent: string;
22:   disclaimer: string;
23:   signature1: string | null;
24:   signature2: string | null;
25: }
26:
27: export interface ReportContent {
28:   introduction: string;
29:   genomicsExplanation: string;
30:   genesHealthImpact: string;
31:   fundamentalsPRS: string;
32:   utilityDoctors: string;
33:   microarrayExplanation: string;
34:   microarrayData: string;
35: }
36:
37: export interface ReportSettings {
38:   title: string;
39:   subtitle: string;
```



```

40:   companyName: string;
41:   headerColor: string;
42:   accentColor: string;
43:   fonts: {
44:     primary: string;
45:     secondary: string;
46:     mono: string;
47:   };
48: }
49:
50: export interface GeneticParameter {
51:   title: string;
52:   gene: string;
53:   snp: string;
54:   result: string;
55:   impact: string;
56: }
57:
58: export interface DynamicDietFieldDefinition {
59:   _uuid: string;
60:   id: string;
61:   label: string;
62:   category: string;
63:   min: number;
64:   max: number;
65:   highRecommendation: string;
66:   normalRecommendation: string;
67:   lowRecommendation: string;
68: }
69:
70: export interface PatientDietAnalysisResult {
71:   fieldId: string;
72:   score: number;
73:   level: "LOW" | "NORMAL" | "HIGH";
74:   recommendation: string;
75:   recommendations: {
76:     LOW: string;
77:     NORMAL: string;
78:     HIGH: string;
79:   };
80:   selectedLevel: "LOW" | "NORMAL" | "HIGH";
81: }
82:
83: export interface NutrientData {
84:   score: number;
85:   healthImpact: string;
86:   intakeLevel: string;
87:   source: string;
88: }
89:
90: export interface NutritionData {
91:   vitamins: {
92:     vitaminA: NutrientData;
93:     vitaminB12: NutrientData;
94:     vitaminB2: NutrientData;
95:     vitaminB6: NutrientData;
96:     vitaminB9: NutrientData;
97:     vitaminC: NutrientData;
98:     vitaminD: NutrientData;
99:     vitaminE: NutrientData;
100:   };
101:   fattyAcids: {
102:     omegaFattyAcids: NutrientData;
103:   };
104:   elements: {
105:     calcium: NutrientData;
106:     iodine: NutrientData;
107:     iron: NutrientData;
108:     magnesium: NutrientData;
109:     phosphorus: NutrientData;
110:     selenium: NutrientData;
111:     zinc: NutrientData;
112:   };

```

```

113:   complexNutrients: {
114:     antiInflammatory: NutrientData;
115:     antioxidants: NutrientData;
116:   };
117: }
118:
119: export interface ExerciseData {
120:   level: string;
121:   description: string;
122: }
123:
124: export interface ExerciseData {
125:   level: string;
126:   description: string;
127: }
128:
129: export interface ExerciseField extends ExerciseData {
130:   label: string;
131: }
132:
133: export interface GroupedExerciseCategory {
134:   title: string;
135:   fields: Record<string, ExerciseField>;
136: }
137:
138: export interface SportsAndFitness {
139:   exerciseType: GroupedExerciseCategory[];
140:   performance: GroupedExerciseCategory[];
141:   customImages?: Record<string, string>;
142: }
143:
144: export interface HealthConditionStatus {
145:   status: "strength" | "improvement";
146: }
147:
148: export interface LifestyleConditions {
149:   heartVascularHealth: {
150:     hypertension: HealthConditionStatus;
151:     leftVentricularHypertrophy: HealthConditionStatus;
152:     atherosclerosis: HealthConditionStatus;
153:     familialHypercholesterolemia: HealthConditionStatus;
154:     cardiomyopathy: HealthConditionStatus;
155:     cholesterolImbalance: HealthConditionStatus;
156:     stroke: HealthConditionStatus;
157:   };
158:   diabetes: {
159:     obesity: HealthConditionStatus;
160:     diabetesType2: HealthConditionStatus;
161:   };
162:   liverHealth: {
163:     nafld: HealthConditionStatus;
164:     liverCirrhosis: HealthConditionStatus;
165:   };
166:   boneHealth: {
167:     osteoporosis: HealthConditionStatus;
168:     osteoarthritis: HealthConditionStatus;
169:   };
170:   gutHealth: {
171:     irritableBowelSyndrome: HealthConditionStatus;
172:     celiacDisease: HealthConditionStatus;
173:   };
174:   hormoneSystem: {
175:     hypothyroidism: HealthConditionStatus;
176:   };
177: }
178:
179: export interface MetabolicGeneData {
180:   genes: string[];
181:   genotype: string;
182:   impact: string;
183:   advice: string;
184: }
185:

```

```

186: export interface MetabolicCore {
187:   methylation: MetabolicGeneData;
188:   inflammation: MetabolicGeneData;
189:   oxidativeStress: MetabolicGeneData;
190:   detoxification: MetabolicGeneData;
191:   vitaminDMetabolism: MetabolicGeneData;
192:   lipidMetabolism: MetabolicGeneData;
193:   insulinResistance: MetabolicGeneData;
194:   circadianRhythm: MetabolicGeneData;
195:   exerciseResponsiveness: MetabolicGeneData;
196:   snackingTendency: MetabolicGeneData;
197:   oestrogenElimination: MetabolicGeneData;
198:   powerVsEndurance: MetabolicGeneData;
199:   injuryRecovery: MetabolicGeneData;
200:   fluidLossTendency: MetabolicGeneData;
201:   vo2Max: MetabolicGeneData;
202: }
203:
204: export interface DigestiveHealthData {
205:   level: string;
206:   description: string;
207: }
208:
209: export interface DigestiveHealth {
210:   gutHealth: DigestiveHealthData;
211:   glutenIntolerance: DigestiveHealthData;
212:   celiacDiseaseTendency: DigestiveHealthData;
213:   impactOnBonesJoints: DigestiveHealthData;
214:   lactoseIntolerance: DigestiveHealthData;
215:   probioticsRequirement: DigestiveHealthData;
216: }
217:
218: export interface AddictionData {
219:   tendency: string;
220:   description: string;
221: }
222:
223: export interface GenesAndAddiction {
224:   alcoholAddiction: AddictionData;
225:   smokingAddiction: AddictionData;
226:   snackingHabits: AddictionData;
227:   altruism: AddictionData;
228: }
229:
230: export interface SleepData {
231:   impact: string;
232:   intervention: string;
233: }
234:
235: export interface SleepAndRest {
236:   sleepCycle: SleepData;
237:   sleepApnea: SleepData;
238:   sleepDepth: SleepData;
239:   stressSensitivity: SleepData;
240: }
241:
242: export interface AllergyData {
243:   tendency: string;
244: }
245:
246: export interface AllergiesAndSensitivity {
247:   dustAllergy: AllergyData;
248:   pesticideSensitivity: AllergyData;
249:   smokeSensitivity: AllergyData;
250:   automobileSmokeSensitivity: AllergyData;
251:   generalAdvice: string;
252: }
253:
254: export interface GeneTestResult {
255:   geneName: string;
256:   variation: string;
257:   result: string;
258: }

```

```

259:
260: export interface MetabolicSummary {
261:   strengths: string[];
262:   weaknesses: string[];
263: }
264:
265: export interface PreventiveHealth {
266:   diagnosticTests: {
267:     halfYearly: string[];
268:     yearly: string[];
269:   };
270:   nutritionalSupplements: Array<{
271:     supplement: string;
272:     needed: boolean;
273:   }>;
274: }
275:
276: export interface FamilyGeneticImpact {
277:   gene: string;
278:   normalAlleles: string;
279:   yourResult: string;
280:   healthImpact: string;
281: }
282:
283: export interface ReportSummaries {
284:   nutrigenomicsSummary: string;
285:   exerciseGenomicsSummary: string;
286: }
287:
288: export interface ComprehensiveReportData {
289:   patientInfo: PatientInfo;
290:   content: ReportContent;
291:   settings: ReportSettings;
292:   dynamicDietFieldDefinitions: DynamicDietFieldDefinition[];
293:   patientDietAnalysisResults: PatientDietAnalysisResult[];
294:   nutritionData: NutritionData;
295:   sportsAndFitness: SportsAndFitness;
296:   lifestyleConditions: LifestyleConditions;
297:   metabolicCore: MetabolicCore;
298:   digestiveHealth: DigestiveHealth;
299:   genesAndAddiction: GenesAndAddiction;
300:   sleepAndRest: SleepAndRest;
301:   allergiesAndSensitivity: AllergiesAndSensitivity;
302:   geneTestResults: GeneTestResult[];
303:   geneticParameters: GeneticParameter[];
304:   geneticCategories?: GeneticCategory[];
305:   metabolicSummary: MetabolicSummary;
306:   preventiveHealth: PreventiveHealth;
307:   familyGeneticImpact: FamilyGeneticImpact[];
308:   summaries: ReportSummaries;
309:   dietFieldCategories: string[];
310: }

```

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