PRD Lovable 02: Design System e Componentes - LoL Engine

® Objetivo para Lovable AI

☐ Footer

Criar um design system completo e profissional com componentes reutilizáveis, tema premium e identidade visual consistente para o LoL Engine.

premium e identidade visual consistente para o LoL Engine.
📋 Checklist de Implementação
✓ 1. Design Tokens
☐ Configurar cores do tema
☐ Definir tipografia
☐ Configurar espaçamentos
☐ Definir sombras e bordas
✓ 2. Componentes Base
☐ Button com variantes
☐ Input e Form components
□ Card e Container
☐ Badge e Status indicators
✓ 3. Componentes Avançados
☐ Modal e Dialog
□ Dropdown e Select
□ Progress Bar
☐ Loading Spinner
✓ 4. Layout Components
☐ Header e Navigation
□ Sidebar

Design Tokens (TailwindCSS Config)

```
JavaScript
// tailwind.config.js
/** @type {import('tailwindcss').Config} */
module.exports = {
 content: [
    './src/pages/**/*.{js,ts,jsx,tsx,mdx}',
    './src/components/**/*.{js,ts,jsx,tsx,mdx}',
    './src/app/**/*.{js,ts,jsx,tsx,mdx}',
  ],
  theme: {
    extend: {
      colors: {
        // Primary Colors
        primary: {
         navy: '#2D3748',
         white: '#FFFFFF',
        },
        // Secondary Colors
        secondary: {
         lightGray: '#F7FAFC',
         mediumGray: '#E2E8F0',
        },
        // Accent Colors
        accent: {
         mintGreen: '#9AE6B4',
         softBlue: '#BEE3F8',
        },
        // Text Colors
        text: {
          darkGray: '#2D3748',
          mediumGray: '#718096',
         lightGray: '#A0AEC0',
        },
        // Status Colors
        status: {
         success: '#48BB78',
          warning: '#ED8936',
         error: '#F56565',
          info: '#4299E1',
        },
        // Evidence Colors
        evidence: {
```

```
strong: '#48BB78',
          moderate: '#ED8936',
          limited: '#ECC94B',
          inconclusive: '#A0AEC0',
        }
      },
      fontFamily: {
        sans: ['Inter', 'system-ui', 'sans-serif'],
        heading: ['Poppins', 'system-ui', 'sans-serif'],
      },
      fontSize: {
        'xs': '0.75rem',
        'sm': '0.875rem',
        'base': '1rem',
        'lq': '1.125rem',
        'xl': '1.25rem',
        '2xl': '1.5rem',
        '3xl': '1.875rem',
        '4xl': '2.25rem',
      },
      spacing: {
       '18': '4.5rem',
       '88': '22rem',
      },
      boxShadow: {
       'soft': '0 2px 15px -3px rgba(0, 0, 0, 0.07), 0 10px 20px -2px
rgba(0, 0, 0, 0.04)',
        'medium': '0 4px 25px -5px rgba(0, 0, 0, 0.1), 0 10px 10px -5px
rgba(0, 0, 0, 0.04)',
       'strong': '0 10px 40px -10px rgba(0, 0, 0, 0.15), 0 2px 10px -2px
rgba(0, 0, 0, 0.05)',
      },
      borderRadius: {
       'xl': '1rem',
       '2xl': '1.5rem',
      }
   },
  },
  plugins: [],
}
```

Componentes Base

Button Component

TypeScript

```
// components/ui/Button.tsx
import { ButtonHTMLAttributes, forwardRef } from "react"
import { cva, type VariantProps } from "class-variance-authority"
import { cn } from "@/lib/utils"
const buttonVariants = cva(
  "inline-flex items-center justify-center rounded-lq text-sm font-medium
transition-all duration-200 focus-visible:outline-none focus-visible:ring-2
focus-visible:ring-offset-2 disabled:opacity-50 disabled:pointer-events-
none",
  {
    variants: {
     variant: {
        primary: "bg-primary-navy text-primary-white hover:bg-primary-
navy/90 shadow-md hover:shadow-lg",
        secondary: "bg-secondary-lightGray text-text-darkGray hover:bg-
secondary-mediumGray",
        accent: "bg-accent-mintGreen text-primary-navy hover:bg-accent-
mintGreen/90 shadow-md",
        outline: "border-2 border-primary-navy text-primary-navy hover:bg-
primary-navy hover:text-primary-white",
        ghost: "text-text-darkGray hover:bg-secondary-lightGray",
        success: "bg-status-success text-primary-white hover:bg-status-
success/90",
        warning: "bg-status-warning text-primary-white hover:bg-status-
warning/90",
        error: "bg-status-error text-primary-white hover:bg-status-error/90",
      },
      size: {
       sm: "h-8 px-3 text-xs",
        md: "h-10 px-4 text-sm",
        lg: "h-12 px-6 text-base",
       xl: "h-14 px-8 text-lg",
      }
    },
    defaultVariants: {
     variant: "primary",
     size: "md"
    }
  }
)
export interface ButtonProps
  extends ButtonHTMLAttributes<HTMLButtonElement>,
    VariantProps<typeof buttonVariants> {}
const Button = forwardRef<HTMLButtonElement, ButtonProps>(
```

Input Component

```
TypeScript
// components/ui/Input.tsx
import { InputHTMLAttributes, forwardRef } from "react"
import { cva, type VariantProps } from "class-variance-authority"
import { cn } from "@/lib/utils"
const inputVariants = cva(
  "flex w-full rounded-lg border bg-primary-white px-3 py-2 text-sm
transition-colors file:border-0 file:bg-transparent file:text-sm file:font-
medium placeholder:text-text-lightGray focus-visible:outline-none focus-
visible:ring-2 focus-visible:ring-offset-2 disabled:cursor-not-allowed
disabled:opacity-50",
  {
    variants: {
      variant: {
        default: "border-secondary-mediumGray focus-visible:ring-accent-
mintGreen",
        error: "border-status-error focus-visible:ring-status-error",
        success: "border-status-success focus-visible:ring-status-success",
      },
      size: {
        sm: "h-8 px-2 text-xs",
       md: "h-10 px-3 text-sm",
       lg: "h-12 px-4 text-base",
      }
    defaultVariants: {
     variant: "default",
      size: "md"
    }
```

```
}
)
export interface InputProps
  extends InputHTMLAttributes<HTMLInputElement>,
    VariantProps<typeof inputVariants> {}
const Input = forwardRef<HTMLInputElement, InputProps>(
  ({ className, variant, size, type, ...props }, ref) => {
    return (
      <input
        type={type}
        className={cn(inputVariants({ variant, size, className }))}
        {...props}
      />
    )
  }
)
Input.displayName = "Input"
export { Input, inputVariants }
```

Card Component

```
TypeScript
// components/ui/Card.tsx
import { HTMLAttributes, forwardRef } from "react"
import { cva, type VariantProps } from "class-variance-authority"
import { cn } from "@/lib/utils"
const cardVariants = cva(
  "rounded-xl border bg-primary-white text-text-darkGray",
    variants: {
      variant: {
        default: "border-secondary-mediumGray",
        elevated: "border-secondary-mediumGray shadow-soft",
        premium: "border-accent-mintGreen shadow-medium bg-gradient-to-br
from-primary-white to-secondary-lightGray",
        success: "border-status-success bg-status-success/5",
        warning: "border-status-warning bg-status-warning/5",
        error: "border-status-error bg-status-error/5",
      },
      padding: {
        none: "p-0",
```

```
sm: "p-3",
        md: "p-4",
        lg: "p-6",
        xl: "p-8",
      }
    },
    defaultVariants: {
      variant: "default",
      padding: "md"
    }
  }
)
export interface CardProps
  extends HTMLAttributes<HTMLDivElement>,
    VariantProps<typeof cardVariants> {}
const Card = forwardRef<HTMLDivElement, CardProps>(
  ({ className, variant, padding, ...props }, ref) => {
    return (
      <div
        ref={ref}
        className={cn(cardVariants({ variant, padding, className }))}
        {...props}
      />
    )
  }
)
Card.displayName = "Card"
const CardHeader = forwardRef<HTMLDivElement, HTMLAttributes<HTMLDivElement>>
  ({ className, ...props }, ref) => (
    <div
      ref={ref}
      className={cn("flex flex-col space-y-1.5 pb-4", className)}
      {...props}
    />
  )
)
CardHeader.displayName = "CardHeader"
const CardTitle = forwardRef<HTMLParagraphElement,</pre>
HTMLAttributes<HTMLHeadingElement>>(
  (\{ className, ...props \}, ref) \Rightarrow (
    <h3
      ref={ref}
      className={cn("text-xl font-semibold leading-none tracking-tight font-
```

```
heading", className)}
    {...props}
    />
    )
)
CardTitle.displayName = "CardTitle"

const CardContent = forwardRef<HTMLDivElement,
HTMLAttributes<HTMLDivElement>>(
    ({ className, ...props }, ref) => (
        <div ref={ref} className={cn("", className)} {...props} />
    )
)
CardContent.displayName = "CardContent"

export { Card, CardHeader, CardTitle, CardContent, cardVariants }
```

Badge Component

```
TypeScript
// components/ui/Badge.tsx
import { HTMLAttributes, forwardRef } from "react"
import { cva, type VariantProps } from "class-variance-authority"
import { cn } from "@/lib/utils"
const badgeVariants = cva(
  "inline-flex items-center rounded-full border px-2.5 py-0.5 text-xs font-
semibold transition-colors focus:outline-none focus:ring-2 focus:ring-ring
focus:ring-offset-2",
    variants: {
      variant: {
        default: "border-transparent bg-secondary-mediumGray text-text-
darkGray",
        secondary: "border-transparent bg-secondary-lightGray text-text-
mediumGray",
        success: "border-transparent bg-status-success text-primary-white",
        warning: "border-transparent bg-status-warning text-primary-white",
        error: "border-transparent bg-status-error text-primary-white",
        info: "border-transparent bg-status-info text-primary-white",
        accent: "border-transparent bg-accent-mintGreen text-primary-navy",
        outline: "border-secondary-mediumGray text-text-darkGray",
        // Evidence levels
        strong: "border-transparent bg-evidence-strong text-primary-white",
        moderate: "border-transparent bg-evidence-moderate text-primary-
white",
```

```
limited: "border-transparent bg-evidence-limited text-primary-navy",
        inconclusive: "border-transparent bg-evidence-inconclusive text-
primary-white",
      },
      size: {
       sm: "px-2 py-0.5 text-xs",
       md: "px-2.5 py-0.5 text-xs",
       lg: "px-3 py-1 text-sm",
      }
    },
    defaultVariants: {
     variant: "default",
     size: "md"
    }
  }
)
export interface BadgeProps
  extends HTMLAttributes<HTMLDivElement>,
    VariantProps<typeof badgeVariants> {}
function Badge({ className, variant, size, ...props }: BadgeProps) {
  return (
    <div className={cn(badgeVariants({ variant, size }), className)}</pre>
{...props} />
 )
}
// Evidence Badge específico
interface EvidenceBadgeProps {
  level: 'strong' | 'moderate' | 'limited' | 'inconclusive'
  size?: 'sm' | 'md' | 'lq'
  className?: string
}
function EvidenceBadge({ level, size = 'md', className }:
EvidenceBadgeProps) {
  const labels = {
    strong: 'Evidência Forte',
    moderate: 'Evidência Moderada',
    limited: 'Evidência Limitada',
    inconclusive: 'Evidência Inconclusiva'
  }
  return (
    <Badge variant={level} size={size} className={className}>
      {labels[level]}
    </Badge>
```

```
)

export { Badge, EvidenceBadge, badgeVariants }
```

Progress Bar Component

```
TypeScript
// components/ui/ProgressBar.tsx
import { HTMLAttributes, forwardRef } from "react"
import { cva, type VariantProps } from "class-variance-authority"
import { cn } from "@/lib/utils"
const progressVariants = cva(
  "relative overflow-hidden rounded-full bg-secondary-lightGray",
  {
    variants: {
      size: {
        sm: "h-2",
       md: "h-3",
       lg: "h-4",
      }
    },
    defaultVariants: {
     size: "md"
    }
)
const progressBarVariants = cva(
  "h-full w-full flex-1 bg-primary transition-all duration-300 ease-in-out",
  {
    variants: {
      variant: {
        default: "bg-accent-mintGreen",
        success: "bg-status-success",
       warning: "bg-status-warning",
       error: "bg-status-error",
        info: "bg-status-info",
      }
    },
    defaultVariants: {
     variant: "default"
    }
  }
)
```

```
export interface ProgressBarProps
  extends HTMLAttributes<HTMLDivElement>,
    VariantProps<typeof progressVariants>,
    VariantProps<typeof progressBarVariants> {
  value: number
  max?: number
  showLabel?: boolean
  label?: string
}
const ProgressBar = forwardRef<HTMLDivElement, ProgressBarProps>(
  ({ className, size, variant, value, max = 100, showLabel, label, ...props
}, ref) => {
    const percentage = Math.min(Math.max((value / max) * 100, 0), 100)
    return (
      <div className="space-y-2">
        {showLabel && (
          <div className="flex justify-between text-sm">
            <span className="text-text-mediumGray">{label}</span>
            <span className="font-medium text-text-darkGray">
{Math.round(percentage)}%</span>
          </div>
        )}
        <div
          ref={ref}
          className={cn(progressVariants({ size, className }))}
          {...props}
          <div
            className={cn(progressBarVariants({ variant }))}
            style={{ width: `${percentage}%` }}
          />
        </div>
      </div>
    )
  }
ProgressBar.displayName = "ProgressBar"
export { ProgressBar, progressVariants, progressBarVariants }
```

Loading Spinner Component

TypeScript

```
// components/ui/LoadingSpinner.tsx
import { HTMLAttributes } from "react"
import { cva, type VariantProps } from "class-variance-authority"
import { cn } from "@/lib/utils"
const spinnerVariants = cva(
  "animate-spin rounded-full border-2 border-current border-t-transparent",
  {
    variants: {
      size: {
        sm: "h-4 w-4",
        md: "h-6 w-6",
       lg: "h-8 w-8",
       xl: "h-12 w-12",
      },
      color: {
        default: "text-accent-mintGreen",
        white: "text-primary-white",
       navy: "text-primary-navy",
       gray: "text-text-mediumGray",
      }
    },
    defaultVariants: {
     size: "md",
     color: "default"
    }
  }
)
export interface LoadingSpinnerProps
  extends HTMLAttributes<HTMLDivElement>,
    VariantProps<typeof spinnerVariants> {}
function LoadingSpinner({ className, size, color, ...props }:
LoadingSpinnerProps) {
  return (
    <div
      className={cn(spinnerVariants({ size, color }), className)}
      {...props}
    />
  )
}
// Loading com texto
interface LoadingWithTextProps {
  text?: string
  size?: 'sm' | 'md' | 'lg' | 'xl'
```

1 Layout Components

Header Component

```
TypeScript
// components/layout/Header.tsx
"use client"
import { useState } from "react"
import { useSession, signOut } from "next-auth/react"
import { Button } from "@/components/ui/Button"
import { Badge } from "@/components/ui/Badge"
export function Header() {
  const { data: session } = useSession()
  const [isMenuOpen, setIsMenuOpen] = useState(false)
  return (
    <header className="sticky top-0 z-50 w-full border-b border-secondary-</pre>
mediumGray bg-primary-white/95 backdrop-blur supports-[backdrop-filter]:bg-
primary-white/60">
      <div className="container mx-auto px-4">
        <div className="flex h-16 items-center justify-between">
          {/* Logo */}
          <div className="flex items-center space-x-2">
            <div className="h-8 w-8 rounded-lg bg-gradient-to-br from-accent-</pre>
mintGreen to-accent-softBlue flex items-center justify-center">
              <span className="text-primary-navy font-bold text-lg">L</span>
            <span className="text-xl font-bold font-heading text-primary-</pre>
```

```
navy">
              LoL Engine
            </span>
            <Badge variant="accent" size="sm">Beta</Badge>
          </div>
          {/* Navigation */}
          <nav className="hidden md:flex items-center space-x-6">
            <a href="/dashboard" className="text-text-darkGray hover:text-</pre>
accent-mintGreen transition-colors">
              Dashboard
            </a>
            <a href="/analysis" className="text-text-darkGray hover:text-</pre>
accent-mintGreen transition-colors">
              Análise
            </a>
            <a href="/progress" className="text-text-darkGray hover:text-</pre>
accent-mintGreen transition-colors">
              Progresso
            </a>
            <a href="/supplements" className="text-text-darkGray hover:text-</pre>
accent-mintGreen transition-colors">
              Suplementos
            </a>
          </nav>
          {/* User Menu */}
          <div className="flex items-center space-x-4">
            {session ? (
              <div className="flex items-center space-x-3">
                <div className="hidden md:block text-right">
                  <div className="text-sm font-medium text-text-darkGray">
                     {session.user?.name}
                  </div>
                  <div className="text-xs text-text-mediumGray">
                     {session.user?.email}
                  </div>
                </div>
                <Button
                  variant="outline"
                  size="sm"
                  onClick={() => signOut()}
                  Sair
                </Button>
              </div>
            ) : (
              <div className="flex items-center space-x-2">
```

Footer Component

```
TypeScript
// components/layout/Footer.tsx
export function Footer() {
  return (
    <footer className="border-t border-secondary-mediumGray bg-secondary-</pre>
lightGray">
      <div className="container mx-auto px-4 py-8">
        <div className="grid grid-cols-1 md:grid-cols-4 gap-8">
          {/* Logo e descrição */}
          <div className="space-y-4">
            <div className="flex items-center space-x-2">
              <div className="h-6 w-6 rounded bg-gradient-to-br from-accent-</pre>
mintGreen to-accent-softBlue flex items-center justify-center">
                <span className="text-primary-navy font-bold text-</pre>
sm">L</span>
              </div>
              <span className="text-lg font-bold font-heading text-primary-</pre>
navy">
                LoL Engine
              </span>
            </div>
            Recomendações de suplementos personalizadas com IA para
otimizar sua saúde e performance.
            </div>
          {/* Links */}
          <div>
```

```
<h4 className="font-semibold text-text-darkGray mb-
4">Produto</h4>
                                           <a href="/features" className="hover:text-accent-mintGreen</li>
transition-colors">Funcionalidades</a>
                                                  <a href="/pricing" className="hover:text-accent-mintGreen">text-accent-mintGreen</a>
transition-colors">Precos</a>
                                                  <a href="/science" className="hover:text-accent-mintGreen</pre>
transition-colors">Ciência</a>
                                           </div>
                                    <div>
                                           <h4 className="font-semibold text-text-darkGray mb-
4">Suporte</h4>
                                           <a href="/help" className="hover:text-accent-mintGreen">href="/help" className="h
transition-colors">Central de Ajuda</a>
                                                  <a href="/contact" className="hover:text-accent-mintGreen">text-accent-mintGreen</a>
transition-colors">Contato</a>
                                                  <a href="/fag" className="hover:text-accent-mintGreen">text-accent-mintGreen</a>
transition-colors">FAO</a>
                                           </div>
                                    <div>
                                           <h4 className="font-semibold text-text-darkGray mb-4">Legal</h4>
                                           <a href="/privacy" className="hover:text-accent-mintGreen">text-accent-mintGreen</a>
transition-colors">Privacidade</a>
                                                  <a href="/terms" className="hover:text-accent-mintGreen">href="/terms" className="hover:text-accent-mintGreen">href="/terms" className="hover:text-accent-mintGreen">href="/terms" className="hover:text-accent-mintGreen">href="/terms" className="hover:text-accent-mintGreen">href="/terms" className="hover:text-accent-mintGreen">href="/terms" className="hover:text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text-accent-mintGreen">href="/text
transition-colors">Termos</a>
                                                  <a href="/disclaimer" className="hover:text-accent-</a>
mintGreen transition-colors">Disclaimer</a>
                                           </div>
                            </div>
                             <div className="border-t border-secondary-mediumGray mt-8 pt-8 text-</pre>
center text-sm text-text-mediumGray">
                                    © 2025 LoL Engine. Todos os direitos reservados.
                             </div>
                     </div>
              </footer>
       )
}
```

lnstruções Específicas para Lovable

- 1. Configure o TailwindCSS com os tokens exatos mostrados
- Implemente todos os componentes na ordem: Button → Input → Card → Badge → ProgressBar → LoadingSpinner
- 3. Teste cada componente individualmente
- 4. Crie uma página de showcase para visualizar todos os componentes
- 5. Implemente Header e Footer por último

Critérios de Sucesso

- ☐ Todos os componentes renderizam corretamente
- Design tokens aplicados consistentemente
- ☐ Componentes responsivos em mobile
- ☐ Variantes funcionando (cores, tamanhos)
- ☐ Header e Footer integrados

📝 Notas para Lovable

- Use exatamente estas cores e espaçamentos
- Implemente todas as variantes mostradas
- Teste responsividade em diferentes tamanhos
- Mantenha consistência visual em todos os componentes