

Mindful

Guide Architectural de Référence

Kickstart du Projet - 3 Parties

Partie 2



Liquid Glass VI

Design System - Palette de Couleurs

```
extension Color {  
    // Gradients principaux  
    static let mindfulPrimary = Color(hex: "667eea")  
    static let mindfulSecondary = Color(hex: "764ba2")  
  
    // Glass effects  
    static let glassBackground = Color.white.opacity(0.2)  
    static let glassBorder = Color.white.opacity(0.6)  
  
    // Moods  
    static let moodVeryHappy = Color.green  
    static let moodHappy = Color(hex: "90EE90")  
    static let moodNeutral = Color.blue  
    static let moodSad = Color.orange  
    static let moodVerySad = Color.red  
}
```

Design System - Typography

```
extension Font {
    // Headings
    static let entryTitle = Font.system(
        size: 28, weight: .bold, design: .rounded
    )
    static let cardTitle = Font.system(
        size: 18, weight: .semibold
    )

    // Body
    static let entryBody = Font.system(
        size: 16, weight: .regular
    )
    static let caption = Font.system(
        size: 14, weight: .regular
    )

    // Special
    static let date = Font.system(
        size: 12, weight: .medium, design: .monospaced
    )
}
```

Components à Créer

Core Components :

- **GlassCard** - Container de base
- **GlassButton** - Boutons avec effet glass
- **MoodSelector** - Picker d'humeur animé
- **TagPill** - Pills pour les tags
- **PhotoGallery** - Galerie de photos

Complex Components :

- **EntryCard** - Card pour timeline
- **EntryEditor** - Éditeur rich text
- **StatsCard** - Card pour statistiques
- **SearchBar** - Barre de recherche glass

GlassCard - Signature

```
struct GlassCard<Content: View>: View {  
    let content: Content  
  
    init(@ViewBuilder content: () -> Content)  
  
    var body: some View {  
        content  
            .padding()  
            .background(.ultraThinMaterial)  
            .cornerRadius(20)  
            .shadow(...)  
            .overlay(borderGradient)  
    }  
}
```

Usage :

```
swift  
GlassCard {  
    Text("Hello")  
}
```

MoodSelector - UI

[😊] [😊] [😐] [😴] [😢]



Selection avec animation scale + color highlight

Features :

- Sélection tactile
- Animation spring au tap
- Couleur de fond change selon mood
- Haptic feedback

Ressource :

- UIFeedbackGenerator pour haptics
- [Human Interface Guidelines - Haptics](#)

Views Architecture

MindfulApp

```
└ ContentView
    └ TimelineView (liste des entrées)
        └ EntryCard (row)
    └ EditorView (nouvelle/édition entrée)
        └ MoodSelector
        └ TextEditor
        └ PhotoGallery
    └ DetailView (lecture entrée)
        └ EntryContent + Photos
    └ StatsView (dashboard)
        └ StatsCards
```

TimelineView - Structure

```
struct TimelineView: View {
    @State private var viewModel = TimelineViewModel()
    @Namespace private var animation

    var body: some View {
        ScrollView {
            LazyVStack(spacing: 20) {
                ForEach(viewModel.entries) { entry in
                    EntryCard(entry: entry)
                        .matchedGeometryEffect(
                            id: entry.id,
                            in: animation
                        )
                }
            }
        }
        .background(gradientBackground)
    }
}
```

EditorView - Features

Composants :

- `TextEditor` natif SwiftUI
- `MoodSelector` en header
- `PhotoPicker` (PhotosUI)
- `TagField` avec suggestions
- Toolbar glass en bas (save, cancel, add photo)

Auto-save :

- Debouncing avec Task cancellation
- Sauvegarde toutes les 2 secondes
- Indicateur "Saved" subtil

Writing Tools : Intégration automatique iOS 18+

Animations - Patterns

Hero Animation :

```
```swift  
@Namespace private var animation
```

```
.matchedGeometryEffect(id: entry.id, in: animation)
```

```
```
```

Spring Animations :

```
swift  
withAnimation(.spring(response: 0.6, dampingFraction: 0.7)) {  
    // state change  
}
```

Phase Animator :

```
swift  
PhaseAnimator([false, true]) { phase in  
    // animate through phases  
}
```

Animations - Transitions

```
extension AnyTransition {
    static var slideAndFade: AnyTransition {
        .asymmetric(
            insertion: .move(edge: .trailing)
                .combined(with: .opacity),
            removal: .move(edge: .leading)
                .combined(with: .opacity)
        )
    }
}
```

Usage :

```
swift
if showDetail {
    DetailView()
        .transition(.slideAndFade)
}
```

Skeleton Loaders

```
struct SkeletonView: View {  
    @State private var shimmerOffset: CGFloat = -1  
  
    var body: some View {  
        RoundedRectangle(cornerRadius: 12)  
            .fill(.gray.opacity(0.3))  
            .overlay(shimmerGradient)  
            .onAppear {  
                withAnimation(.linear(duration: 1.5)  
                    .repeatForever(autoreverses: false)) {  
                    shimmerOffset = 1  
                }  
            }  
    }  
}
```

Ressources UI - SwiftUI

Documentation officielle :

- [SwiftUI Documentation](#)
- [SwiftUI Tutorials](#)

WWDC Sessions :

- WWDC23: Animate with springs (10158)
- WWDC23: Demystify SwiftUI performance (10160)
- WWDC22: SwiftUI on iPad: Add toolbars (10069)

Communauté :

- [Hacking with Swift - SwiftUI](#)
- [SwiftUI Lab](#)

Ressources UI - Design

Apple Design Resources :

- Human Interface Guidelines
- SF Symbols App

Inspiration :

- Dribbble : recherche "journal app" ou "glass design"
- Mobbin : collection d'apps iOS design

Glassmorphism :

- Articles sur le style "Liquid Glass" / "Glassmorphism"
- Figma templates pour référence