

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