

# MeetMind

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## Guide Architectural de Référence

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### Kickstart du Projet - 3 Parties

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Partie 2 : Liquid Glass UI

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# Partie 2



# Liquid Glass UI

# Design System - Palette de Couleurs

```
extension Color {
    // Gradients principaux (plus corporate)
    static let meetMindPrimary = Color(hex: "4F46E5") // Indigo
    static let meetMindSecondary = Color(hex: "7C3AED") // Purple

    // Glass effects
    static let glassBackground = Color.white.opacity(0.2)
    static let glassBorder = Color.white.opacity(0.6)

    // Meeting types
    static let standupColor = Color.blue
    static let oneOnOneColor = Color.green
    static let reviewColor = Color.orange
    static let planningColor = Color.purple

    // Priority
    static let priorityLow = Color.gray
    static let priorityMedium = Color.orange
    static let priorityHigh = Color.red
    static let priorityUrgent = Color(hex: "DC2626")
}
```

# Design System - Typography

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

    // Body
    static let meetingNotes = Font.system(
        size: 16, weight: .regular
    )
    static let actionItem = Font.system(
        size: 15, weight: .medium
    )

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

# Components à Créer

## Core Components :

- `GlassCard` - Container de base
- `MeetingTypeSelector` - Picker de type
- `ParticipantPill` - Pills pour participants
- `ActionItemRow` - Row avec checkbox
- `DurationPicker` - Picker de durée

## Complex Components :

- `MeetingCard` - Card pour timeline
- `NotesEditor` - Éditeur avec auto-save
- `ActionItemsList` - Liste avec completion
- `ParticipantPicker` - Sélection participants

# 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)  
    }  
}
```

# MeetingTypeSelector - UI

[  Standup ] [  1-on-1 ] [  Review ] [  Planning ] [  Retro ]

↑

Selection avec animation scale + color highlight

## Features :

- Sélection tactile
- Animation spring au tap
- Couleur de fond selon type
- Durée par défaut appliquée

# Views Architecture

MeetMindApp

```
└ ContentView
    ├── TimelineView (liste des meetings)
    |   └ MeetingCard (row)
    ├── EditorView (nouveau/édition meeting)
    |   ├── MeetingTypeSelector
    |   ├── TextEditor (notes)
    |   ├── ParticipantPicker
    |   └ ActionItemsList
    ├── DetailView (lecture meeting)
    |   ├── MeetingHeader
    |   ├── NotesContent
    |   └ ActionItemsList
    └ StatsView (analytics dashboard)
        └ MetricsCards
```

# TimelineView - Structure

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

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

# EditorView - Features

## Composants :

- `TextEditor` natif SwiftUI (notes)
- `MeetingTypeSelector` en header
- `DatePicker` pour date/heure
- `DurationPicker` pour durée
- `ParticipantPicker` (multi-select)
- `ActionItemsList` (ajout/édition)
- Toolbar glass en bas

## Auto-save :

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

## Writing Tools : Intégration automatique iOS 18+

# ActionItemsList - Component

```
struct ActionItemsList: View {
    @Binding var items: [ActionItem]

    var body: some View {
        VStack(spacing: 12) {
            ForEach($items) { $item in
                ActionItemRow(item: $item)
            }

            Button("Add Action Item") {
                // Ajouter nouvel item
            }
        }
    }
}

struct ActionItemRow: View {
    @Binding var item: ActionItem

    var body: some View {
        HStack {
            Button { item.isCompleted.toggle() } label: {
                Image(systemName: item.isCompleted ?
                    "checkmark.circle.fill" : "circle")
            }
            TextField("Action item", text: $item.title)
            PriorityBadge(priority: item.priority)
        }
    }
}
```

# Animations - Patterns

Hero Animation :

```
swift
@Namespace private var animation
.matchedGeometryEffect(id: meeting.id, in: animation)
```

Completion Animation :

```
swift
withAnimation(.spring(response: 0.3)) {
    actionItem.isCompleted.toggle()
}
```

Card Flip :

```
swift
.rotation3DEffect(
    .degrees(isFlipped ? 180 : 0),
    axis: (x: 0, y: 1, z: 0)
)
```

# Calendar Integration UI

```
struct CalendarSyncBanner: View {
    @State private var isSyncing = false

    var body: some View {
        HStack {
            Image(systemName: "calendar.badge.clock")
            Text("Sync with Calendar")
            Spacer()
            if isSyncing {
                ProgressView()
            } else {
                Button("Sync") {
                    Task { await syncCalendar() }
                }
            }
        }
        .padding()
        .background(.thinMaterial)
        .cornerRadius(12)
    }
}
```

# 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](#)

