

# MeetMind

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## Guide Architectural de Référence

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### Kickstart du Projet - 3 Parties

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Partie 1 : Backend Local de l'App

Partie 2 : Liquid Glass UI

Partie 3 : Apple Intelligence & Data

# Partie 2



## Liquid Glass VI

# 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](#)

