

Swift Style Guide

Our team follows these key style guidelines for Swift development:

Code Formatting

- Use standard Swift camelCase naming conventions
- Indent using 4 spaces (no tabs)
- Opening brace on same line, closing on new line:

```
```swift
if condition {
 // code
}
```
```

File Header Comments

Every file should start with a standard header:

```
```swift
//
// FileName.swift
// ProjectName
//
// Created by [Author Name] on [Date]
//
// [Description of the file's purpose]
// [Current status/TODO items]
// [Request to comment changes with name]
```
```

Naming Conventions

- Variables and functions start lowercase, use camelCase
 - email
 - password
 - signIn()
- View structs start uppercase, use camelCase, end in "View"
 - LoginView
 - RegistrationView

- ViewModels end in "ViewModel"
- AuthViewModel
- Names should be descriptive and clear

Comments

- Comments explain current status and needed changes
- Leave name when making changes
- Use consistent comment formatting:

```
```swift
```

```
// Background color
```

```
Color.blue
```

```
.ignoresSafeArea()
```

```
// Form Fields: Email and Password
```

```
VStack(spacing: 24) {
```

```
 // code
```

```
}
```

```
```
```

Project Structure

Our application files are organized using the following directory structure and conventions:

File Naming Conventions

- Views end with "View" (e.g., LoginView, MapView)
- ViewModels end with "ViewModel" (e.g., AuthViewModel)
- Controllers end with "Controller" (e.g., LandmarkController)
- Managers end with "Manager" (e.g., NotificationManager)
- Utility files describe their function (e.g., RoundedCorner)

Organization Principles

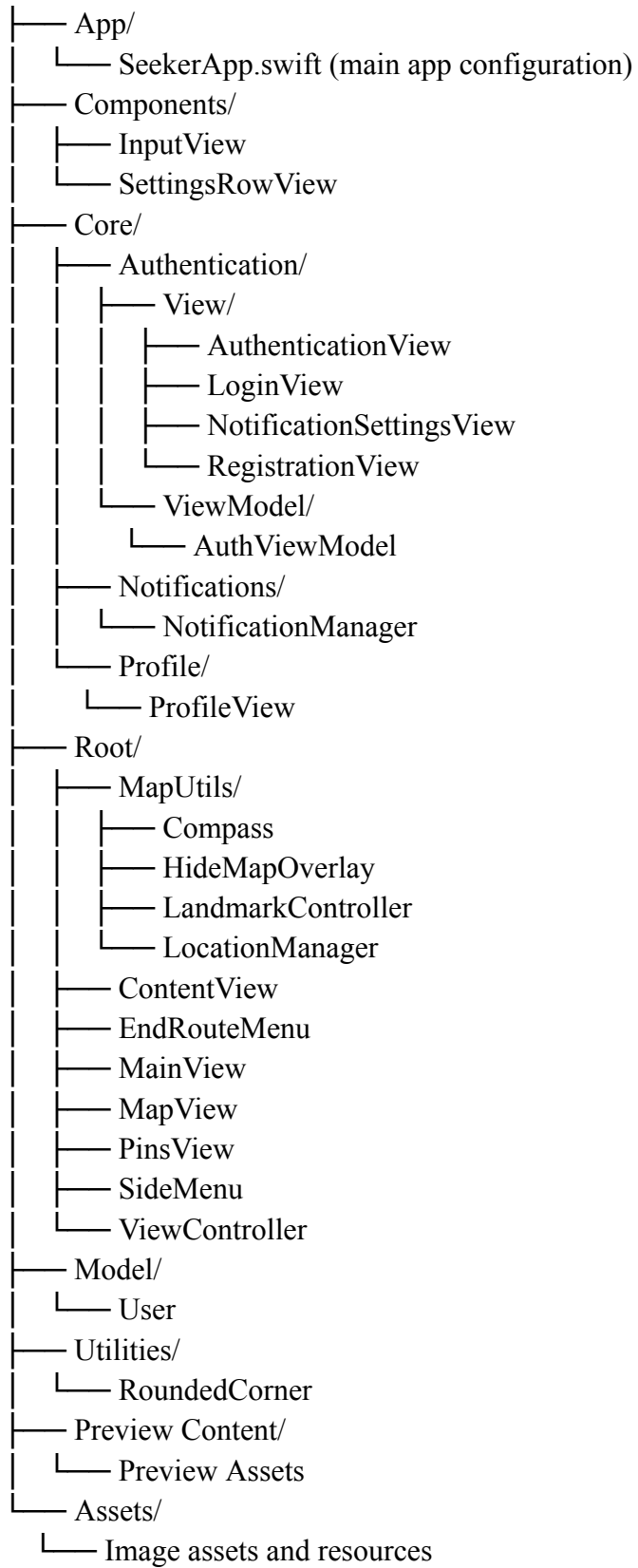
- Components/: Contains reusable UI elements
- Core/: Contains main feature modules (Auth, Profile, etc.)
- Root/: Contains primary app views and navigation
- Model/: Contains data structures and types
- Utilities/: Contains helper functions and extensions
- Clear separation of Views from ViewModels
- Related functionality grouped in subfolders

This structure promotes:

- Modular development
- Clear feature organization
- Separation of concerns
- Easy navigation
- Scalable architecture

Directory layout below

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SwiftUI View Organization

- Organize view content logically (background, main content, buttons)
- Group related elements with clear comment headers
- Use meaningful spacing values
- Include Preview provider at bottom of file

Swift Guidelines

- Use `@State` for view-local state
- Use `@EnvironmentObject` for shared data
- Proper view modifier ordering
- Clear view hierarchy structure
- Async/await for asynchronous operations

The focus is on maintaining:

- Clear file organization
- Consistent commenting
- Logical view structure
- Standard SwiftUI conventions
- Clear change tracking