# React UI + API Components — (MIS + Entitlement)

## 

## Global Layout & Shell

### AppLayout.tsx

* Handles page structure with:  
  + <Navbar />
  + <Sidebar />
  + <MainContent />
  + <Footer />
  + Role-aware routes

## Navbar Components

### <Navbar />

* Role-aware options: Show Add User, Request Access, etc.
* Subcomponents:  
  + <Logo />
  + <QuickSearch /> (search across users, apps)
  + <NotificationBell /> (dropdown with latest)
  + <UserMenu />: profile, settings, logout

## Sidebar Navigation

### <Sidebar />

* Role + userType aware rendering
* Sections:  
  + Dashboard
  + User Management (Internal)
  + Access Request / My Requests (External)
  + Entitlements
  + Reports
  + Admin Tools
  + Settings

# Functional Module-Based Component

Login (Okta)

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├── Dashboard

│ ├── Quick Metrics

│ └── Role-based shortcuts

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├── Internal User Management

│ ├── Add/Edit User (Research / Non-Research)

│ └── View All Users

│

├── External Access Request

│ ├── Request Form

│ └── My Requests

│

├── Entitlements

│ ├── Current Access

│ └── Modify Access

│

├── Admin Panel

│ ├── Role Matrix

│ ├── Team Mapping

│ └── System Settings

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└── Reports

├── Certification Report

└── Access Audit Log

## 1. User Management (MIS)

### InternalUserCreatePage.tsx

Used by Admins to create internal users (Research, Non-Research)

#### <UserDetailsSection />

* Name, Email, Role, Department
* Auto-filled from LDAP

#### <PersonalInfoSection />

* Phone, Photo Upload, Address

#### <HRDetailsSection />

* Manager, Cost Center, Join Date, Employment Type, HR code

#### <AccessPermissionsSection />

* Checkbox per application (SPARC, ADS, etc.)
* Granular permissions

#### <CertificationSection />

* List of certs + dates
* Visual indicators

#### <FileUploadSection />

* Upload offer letters, NDA, etc.

#### <CommentsSection />

* Notes, markdown or plain text

#### <UserPreviewDrawer />

* Collapsible right drawer showing full user profile summary before save

### InternalUserListPage.tsx

Used to browse/search/edit internal users  
 Includes:

* <UserTable /> (sortable, filterable)
* <UserStatusBadge />
* <SoftDeleteButton />
* <QuickEditModal /> to update a user quickly

## 2. External Entitlement Request Flow

### ExternalAccessRequestPage.tsx

#### <RequestForm />

* Select Applications (multi-select)
* Select Assets (conditional per application)
* Purpose field (text area)
* File uploads (optional)

#### <RequestSummaryDrawer />

* Side drawer showing selected apps/assets before submission

#### <CRMStatusBanner />

* If CRM validation fails → show alert

### MyRequestsPage.tsx

* View past and current requests
* Filter by status (Pending, Approved, Rejected)
* Download request PDF

#### <RequestStatusCard />

* Compact card for each request
* Timeline of approval progress

## 3. Entitlement Grid (Admin)

### EntitlementGridPage.tsx

#### <EntitlementTable />

* Rows: users
* Columns: apps/assets
* Actions: Modify / Extend / Revoke

#### <BulkUpdateBar />

* Select multiple rows
* Actions: bulk revoke/extend

#### <AccessHistoryDrawer />

* View all changes made to a specific user/app combo

## 4. Admin Panel

### RoleManagementPage.tsx

#### <RolePermissionMatrix />

* Roles on rows, Features on columns
* CRUD actions (checkbox grid)

#### <TeamAssignmentPanel />

* Assign users to teams/groups
* Useful for manager/report structures

### SettingsPage.tsx

* System config (CRM, MIS, Email triggers)
* MFA toggle
* Branding, Notification Settings

## 5. Reports

### ReportsPage.tsx

Role-based report access

#### <CertificationReport />

* Table + Pie charts by team, department

#### <AuditTrailReport />

* Filter: User, Action, Date
* Export to Excel/PDF

#### <EntitlementChangeLog />

* Who modified what/when

## 6. Notifications

### <NotificationService />

* Toast + Bell
* Triggered on:  
  + New access request
  + Approval/Rejection
  + Expiring access
  + User added/deactivated

## 7. Soft Delete Workflow

### <UserDeactivationModal />

* Triggered from user list
* Confirm & comment box
* Status changes to Inactive

### <SoftDeletedUserList />

* Separate section for all inactive users
* Restore/Delete permanently (admin only)

## 8. Authentication & Session

### <LoginPage />

* Okta OAuth2 Login (Internal + External)
* Redirect via Role
* MFA support (phase 2)

### <AuthProvider />

* Context provider using Okta SDK
* Stores JWT, roles, userType

### <ProtectedRoute />

* Wrapper for role-based route protection

## 9. Reusable Shared Components

| **Component** | **Description** |
| --- | --- |
| <FormField /> | Standard input wrapper |
| <Dropdown /> | Used for roles, applications, etc. |
| <Tag /> | Status badges (Pending, Inactive, etc.) |
| <MultiSelect /> | For asset/application selections |
| <CollapsiblePanel /> | Used in forms or dashboards |
| <Breadcrumbs /> | Navigation helper |
| <Pagination /> | Used in tables and lists |
| <Modal /> | Reusable modals |
| <Toast /> | In-app alerts |

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## API services components

This document defines backend API endpoints assuming:

* **Entitlement backend APIs already exist**
* **Okta** is used for auth; all apps use the **same user base**
* Spring Boot is used
* We'll expand MIS functionality and shared modules here

## 1. Common Shared APIs (Used by MIS + Entitlement)

| **Module** | **Endpoint** | **Method** | **Purpose** |
| --- | --- | --- | --- |
| UserContext | /api/me | GET | Return user’s profile from Okta JWT |
| Groups | /api/groups | GET | Get Okta group list |
| Apps | /api/apps | GET | List all integrated applications |
| Roles | /api/roles | GET | List available roles by app |
| Notifications | /api/notifications | GET/POST | Get or create internal app notifications |
| Audit Logs | /api/audit/logs | GET | Audit trail of actions |

## 2. MIS-Specific APIs

### 2.1 Internal User Management

| **Endpoint** | **Method** | **Role** | **Description** |
| --- | --- | --- | --- |
| /api/mis/users | GET | MIS\_Admin | List all users |
| /api/mis/users/:id | GET | MIS\_Admin | Get user profile |
| /api/mis/users | POST | MIS\_Admin | Create new internal user |
| /api/mis/users/:id | PUT | MIS\_Admin | Update user info |
| /api/mis/users/:id | DELETE | MIS\_Admin | Soft delete (mark inactive) |

### 2.2 Research Type & Tag Management

| **Endpoint** | **Method** | **Role** | **Description** |
| --- | --- | --- | --- |
| /api/research/types | GET/POST/PUT/DELETE | MIS\_Admin | Manage research categories/types |
| /api/research/tags | GET/POST/PUT/DELETE | MIS\_Admin | Manage research tagging options |

### 2.3 Access Matrix Management

| **Endpoint** | **Method** | **Role** | **Description** |
| --- | --- | --- | --- |
| /api/roles/matrix | GET | MIS\_Admin | Get existing access matrix |
| /api/roles/matrix | POST | MIS\_Admin | Add/modify app-role mappings |

## 3. Reporting & Certification APIs

| **Endpoint** | **Method** | **Role** | **Description** |
| --- | --- | --- | --- |
| /api/certification | GET | Any Auth'd | View access review statuses |
| /api/certification/report | GET | Admin | Download entitlement review audit reports |

## 4. Utility Lookups

| **Endpoint** | **Method** | **Description** |
| --- | --- | --- |
| /api/lookup | GET | For all the lookup tables |

## Summary Matrix: Internal vs. External

| **Feature** | **Internal User (MIS)** | **External User (Entitlement)** |
| --- | --- | --- |
| Create/Edit User | ✅ | ✅ |
| Request Access | ❌ | ✅ |
| Approve/Reject Requests | ✅ (Admin) | ✅ |
| View Entitlements | ✅ | ❌ |
| Reports | ✅ | 🔒 (limited) |
| Upload Documents | ✅ | ✅ (for requests) |
| CRM/MIS Sync | 🔄 (backend) | 🔄 (backend) |
| Okta Integration | ✅ | ✅ |