

Build a Modern Client Portal (with PM integration)

You are an expert full-stack engineer + product designer. Build a production-ready **Client Portal** with a clean, modern UI. The portal must integrate with an internal **Project Management (PM)** service (can be implemented in-repo as a microservice) and enforce strict role-based visibility.

Goals (TL;DR)

- **Communities List on sidebar** (multi-community tenants).
- **Auto-create a Project in PM when a client completes onboarding.**
- **Project Tracker** view for each client.
- **Task Raise** (client can create tasks) synced to PM.
- **Client can only see tasks they created in the portal.**
- **PM shows both client-made and internal-made tasks** (with provenance).
- **Responsive layout with left sidebar + top navbar.**
- **Dashboard:** compact, information-dense overview of all relevant data at a glance.

Use a modern, good-looking UI (glassmorphism-lite, subtle shadows, rounded corners, excellent empty states). Accessibility first.

Tech Stack (Frontend-only for now)

- **App:** Next.js 14 (App Router) + TypeScript
 - **UI:** Tailwind CSS, shadcn/ui, Radix Primitives, Lucide-react icons
 - **State/Data:** TanStack Query (server cache), React Hook Form + Zod for client validation
 - **Routing:** App Router with parallel routes for modals (e.g., TaskCreateDialog)
 - **Auth (placeholder):** JWT bearer token from Strapi (to be wired later); for now, mock via MSW
 - **APIs:** Strapi REST (later GraphQL optional). Create a thin `strapiClient` wrapper.
 - **Testing:** Playwright (UX flows) + Vitest/Testing Library
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Information Architecture

Top-Level Areas

1. **Dashboard** (compact overview)
2. **Projects** → Project Tracker
3. **Tasks** → Client Task Raise + list (client-visible subset)
4. **Communities** (left sidebar list & switcher)
5. **Onboarding** (first-run flow)
6. **Settings** (profile, notifications, API keys)

Navigation

- **Left Sidebar:** tenant switcher (community list), primary nav (Dashboard, Projects, Tasks, Communities, Settings), footer with help & status.
- **Top Navbar:** global search, quick create (Task), notifications, user menu, context breadcrumbs.

Onboarding Flow (use our prior flow as baseline)

Treat onboarding as a guided wizard collecting: Organization details, Primary contact, Community selection, Team invites, Initial project intent. On completion, fire `OnboardingCompleted` → auto-create a Project in PM and seed a default task list.

Steps: 1. **Org & Contact:** org name, domain, contact name/email, logo. 2. **Community Selection:** choose one or more communities the client belongs to. 3. **Invite Team:** optional invites (emails → role `CLIENT`). 4. **Initial Project Setup:** short form with project name, goal, target dates. 5. **Review & Finish** → trigger project auto-create.

Empty states should guide users to create their first task or visit the project tracker.

Expected API Shapes (for Strapi later)

These interfaces describe what the frontend expects from Strapi collections. Use them for typing and mock data now. Adjust if your Strapi content-types differ.

```
// Common
export type ID = string;
export type ISODate = string; // e.g., 2025-09-30T10:00:00.000Z

export enum Role { CLIENT = 'CLIENT', INTERNAL = 'INTERNAL', ADMIN = 'ADMIN' }
export enum ProjectStatus { ACTIVE='ACTIVE', ON_HOLD='ON_HOLD',
COMPLETED='COMPLETED', ARCHIVED='ARCHIVED' }
export enum TaskStatus { OPEN='OPEN', IN_PROGRESS='IN_PROGRESS',
BLOCKED='BLOCKED', DONE='DONE', CANCELED='CANCELED' }
export enum TaskSource { CLIENT_PORTAL='CLIENT_PORTAL',
INTERNAL_PM='INTERNAL_PM', IMPORT='IMPORT', API='API' }

export interface UserDTO {
  id: ID; name?: string; email: string; role: Role; avatarUrl?: string;
}
export interface CommunityDTO {
  id: ID; name: string; slug: string;
}
export interface ProjectDTO {
```

```

    id: ID; communityId: ID; name: string; status: ProjectStatus; startDate?:
    ISODate; targetDate?: ISODate; createdBy?: ID;
  }
  export interface TaskDTO {
    id: ID; projectId: ID; title: string; description?: string; status:
    TaskStatus; source: TaskSource; createdBy: ID; assigneeId?: ID; createdAt:
    ISODate;
  }
  export interface OnboardingDTO {
    id: ID; userId: ID; communityIds: ID[]; payload: Record<string, unknown>;
    completedAt?: ISODate;
  }

```

Strapi Collections (planned) - `users` (with role field) - `communities` (name, slug, members via relation) - `projects` (name, community, status, dates, createdBy) - `tasks` (project, title, description, status, source, createdBy, assignee) - `onboardings` (user, communities, payload, completedAt)

Permissions & Visibility (Critical)

- **Client users** can:
 - View **only** tasks where `Task.createdById == session.user.id` **OR** tasks explicitly shared to them (`TaskVisibility` extension below, optional).
 - Create tasks in communities where they are members.
 - View their own projects (community-scoped) and project tracker summary.
 - **Internal/Admin** can see all tasks and projects within their communities; Admins can see all tenants.

Optional extension for sharing:

```

model TaskVisibility {
  id      String @id @default(cuid())
  taskId  String
  userId  String
  task    Task    @relation(fields: [taskId], references: [id])
  user    User    @relation(fields: [userId], references: [id])
  @@unique([taskId, userId])
}

```

API enforcement: All list/read endpoints must filter by community membership and the visibility rules above. Add server-side Zod refinements to prevent over-posting.

API Integration (Strapi, mocked for now)

Endpoints (target shapes)

- GET /api/communities → CommunityDTO[]
- GET /api/projects?communityId=... → ProjectDTO[]
- POST /api/projects → create project (used after onboarding)
- GET /api/tasks?projectId=...&scope=client|internal → TaskDTO[]
- POST /api/tasks → create task (Task Raise)

Visibility Logic (client-side enforcement for now)

- If `session.role === CLIENT`, only display tasks where `createdById === session.user.id` unless a `sharedWith` array exists (future).
- Internal/Admin see all tasks; add filter chips: `All | Client-Made | Internal-Made` using `TaskSource`.

Dev Strategy (no backend yet)

- Use **MSW (Mock Service Worker)** to stub all endpoints above.
- Provide `fixtures/` with realistic datasets across multiple communities; include both client- and internal-made tasks.

UI/UX Requirements (Frontend)

- **Design Language:** sleek, modern, whitespace-efficient. shadcn/ui Cards, Tabs, DataTable. Subtle Framer Motion transitions.
- **Dashboard (compact)** shows, above the fold:
- **My Tasks** (created by me) — top 5, grouped by status (chips).
- **Project Tracker summary** (active projects per community, progress ring, risk badge if deadlines near).
- **Upcoming** (target dates within 14 days) with mini-timeline.
- **Community switcher** chip row.
- **Quick actions:** Raise Task, View Project, Invite teammate.
- **Sidebar:** Communities list (searchable) + primary nav (Dashboard, Projects, Tasks, Communities, Settings). Collapsible on mobile.
- **Top Navbar:** global search (cmd+k), quick add (Task), notifications, user menu, breadcrumbs.
- **Projects:** Tracker page with List + Kanban tabs; progress ring; milestone chips; filters by status and community.
- **Tasks:** Task Raise dialog (title, description, project, attachments placeholder), list with **Provenance** (Client/Internal) and status controls.
- **Communities:** list + details; selecting a community scopes the whole app.
- **Empty States:** friendly + action-oriented. Skeleton loaders.
- **Accessibility:** keyboard nav, focus states, color contrast AA.

Pages & Components (Next.js, frontend only)

```
/app
  /(protected)
    /dashboard (compact cards)
    /projects/[projectId]
    /projects
    /tasks
    /communities
    /onboarding (wizard UI only; emits event to create project)
    /settings
/components
  Sidebar.tsx (communities, nav)
  Topbar.tsx (search, quick add, user menu)
  CommunitySwitcher.tsx
  ProjectTracker.tsx
  TaskList.tsx
  TaskCreateDialog.tsx
  KanbanBoard.tsx
  ProgressRing.tsx
  StatusBadge.tsx
  EmptyState.tsx
  DataTable.tsx
  ScopeGuard.tsx (role-aware wrappers)
/lib
  strapiClient.ts (fetch wrapper)
  api.ts (typed calls)
  session.ts (mocked for now)
  visibility.ts (filters)
  msw/handlers.ts (mock endpoints)
```

Key Implementation Notes (Frontend)

- **Community scoping** via `CommunityContext` persisted to URL and localStorage. All queries include `communityId`.
- **Visibility**: Inject client-side filter for CLIENT role; show provenance via `Task.source` badges. Internal users get scope filter chips.
- **Onboarding**: Wizard captures org/contact/community/project; on finish, call `POST /api/projects` (mocked) and redirect to project page with a toast.
- **Optimistic UX**: On task create, update TaskList immediately; rollback on error.
- **Error & Empty states**: Consistent toasts and banners.
- **Future**: Swap MSW to real Strapi by flipping an env flag and providing the base URL + auth token.

Seed Scripts

Create seeds for: - Communities (2-3 demo tenants) - Internal users + client users - One project per community (auto-created) - Mixed tasks (client vs internal) to test visibility.

Acceptance Criteria (Frontend)

1. Completing onboarding triggers **create project** call and redirects to Project Tracker with a seeded kickoff task (from mocks).
 2. **CLIENT** user sees only tasks they created; can raise a task which appears with `source = CLIENT_PORTAL`.
 3. **INTERNAL** user can view both client- and internal-made tasks; can filter `All | Client-Made | Internal-Made`.
 4. Sidebar lists **Communities**; switching scopes data everywhere.
 5. **Dashboard** surfaces compact key info above the fold.
 6. Responsive: great on desktop & mobile (collapsible sidebar, sticky topbar).
 7. API layer typed to the interfaces; MSW handlers mirror Strapi endpoints.
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Developer Tasks Checklist (Frontend)

- [] Scaffold Next.js + Tailwind + shadcn/ui + TanStack Query.
 - [] Implement `strapiClient` and typed API calls (REST).
 - [] Add MSW handlers and realistic fixtures.
 - [] Build Onboarding wizard; wire project creation + redirect.
 - [] Sidebar with Communities; Top navbar with quick add.
 - [] Dashboard cards, Project tracker (List + Kanban), Tasks CRUD (frontend).
 - [] Role visibility filters; provenance badges.
 - [] Playwright e2e for acceptance criteria.
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Stretch (if time allows)

- Real-time hints via polling or SSE once Strapi is live.
- File attachments UI with pre-signed URL flow stubbed.
- Notifications center + email templates (front-end views).
- Metrics panel on Project (burndown mock).

Deliverables: Frontend-only Next.js app with mocks, typed API layer, Playwright tests, and a README explaining how to switch to Strapi.