

Frontend Pages & Route Map

- `/login` — Supabase Auth UI (email/pass or SSO)
- `/mfa` — MFA challenge/verify (if enabled)
- `/org/settings` — Org profile + policy readouts
- `/org/teams` — List + create/edit/delete teams; manage team members
- `/admin/users` — Invite org users, edit role/clearance, disable/remove
- `/projects` — Project list (filters: team, owner, deadline)
- `/projects/[projectId]`
 - `overview` — Title, description, budget, deadline, members
 - `members` — Add/remove members
 - `files` — List/upload/download/rename/delete/change clearance
 - `audit` — Project audit stream
- `/p2p` — Inbox/Outbox (view-once messages); Compose modal
- `/reports`
 - `reassignments` — Clearance changes stream + filters
 - `projects/[projectId]/summary` — Per-project summary widgets

4) Endpoint Contracts (what FE sends/expects)

Organizations & Teams

GET `/organizations/me`

- **Headers:** auth, x-org-id
- **Response:**

```
{ org: Org; membership: Membership; }
```

POST `/org/teams`

- **Body:** { name: string; description?: string }
- **Response:** { teamId: string; name: string; }

PATCH `/org/teams/:id`

- **Body:** { name?: string; description?: string }

- **Response:** Team

DELETE /org/teams/:id

- **Response:** { removed: true }

POST /org/teams/:id/members

- **Body:** { userId: string; role_on_team?: string }
- **Response:** { added: true }

DELETE /org/teams/:id/members/:userId

- **Response:** { removed: true }
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Admin / Users

POST /admin/users

- **Body:** { email: string; name?: string; role: Role; clearance: ClearanceLevel; teamIds?: string[] }
- **Response:** { userId: string; orgId: string; role: Role; clearance: ClearanceLevel; }

PATCH /admin/users/:id

- **Body:** { role?: Role; clearance?: ClearanceLevel; teamChanges?: { add?: string[]; remove?: string[] } }
- **Response:** OrgUser

DELETE /admin/users/:id

- **Response:** { removed: true }
-

Projects (with metadata)

POST /projects

- **Body:**

```
{  
  teamId: string;
```

```
title: string;
description?: string;
budget_amount?: number;
budget_currency?: string;
deadline?: string;           // ISO date
owner_id?: string;
}
```

- **Response:** { projectId: string; }

PATCH /projects/:id

- **Body:** any of the fields above (partial)
- **Response:** Project

DELETE /projects/:id

- **Response:** { removed: true }

GET /projects

- **Query:**
?teamId=&ownerId=&q=&deadlineStart=&deadlineEnd=&cursor=&limit=
- **Response:** { items: Project[]; nextCursor?: string }

POST /projects/:id/members

- **Body:** { userId: string; role_on_project?: string }
- **Response:** { added: true }

DELETE /projects/:id/members/:userId

- **Response:** { removed: true }

Files (per-file clearance)

GET /projects/:id/files

- **Query:** ?q=&mime=&cursor=&limit=
- **Response:** { items: FileItem[]; nextCursor?: string }

POST /files/upload-intent

- **Body:**

```
{
  projectId: string;
  filename: string;
  mimetype: string;
  size: number;
  clearance_level: ClearanceLevel;
}
```

- **Response:**

```
{ fileId: string; uploadUrl: string; storageKey: string; }
```

FE flow:

1. Call `upload-intent` → get `uploadUrl`
2. **PUT** the raw file bytes directly to `uploadUrl` (no auth header)
3. On success, call `/files/complete` with `{ fileId, checksum }`

POST `/files/complete`

- **Body:** `{ fileId: string; checksum?: string }`
- **Response:** `{ status: "SCANNING" }`

GET `/files/:id/download-intent`

- **Response:** `{ downloadUrl: string; expiresAt: string }`

FE: perform a **GET** on `downloadUrl` (no auth header); browser downloads.

PATCH `/files/:id`

- **Body:** `{ filename?: string }`
- **Response:** `FormItem`

DELETE `/files/:id`

- **Response:** `{ removed: true }`

PATCH `/files/:id/clearance`

- **Body:** `{ new_clearance: ClearanceLevel }`
 - **Response:** `FormItem` (with updated `clearance`)
-

Access Overrides (time-bound allow/deny)

POST /access/overrides

- **Body:**

```
{
  resource_type: "project" | "file";
  resource_id: string;
  subject_user_id: string;
  effect: "ALLOW" | "DENY";
  starts_at?: string;    // ISO
  ends_at?: string;      // ISO
}
```

- **Response:** AccessOverride

DELETE /access/overrides/:id

- **Response:** { removed: true }
-

P2P (view-once secure messages)

POST /p2p

- **Body:** { recipient_id: string; text?: string; attachment_file_id?: string; expires_at?: string }
- **Response:** { p2pId: string; state: "PENDING" }

GET /p2p/:id

- **Response:**

```
{
  id: string;
  text?: string | null;
  attachment?: { downloadUrl: string; expiresAt: string } | null;
}
```

Note: After this call, the message becomes DELIVERED and will be auto-deleted per policy.

DELETE /p2p/:id

- **Response:** { removed: true } (only if still PENDING)
-

Audit & Reports

GET /audit

- **Query:**
?projectId=&fileId=&userId=&type=&since=&until=&cursor=&limit=
- **Response:** { items: AuditEvent[]; nextCursor?: string }

GET /reports/reassignments

- **Query:** ?since=&cursor=&limit=
- **Response:** { items: AuditEvent[]; nextCursor?: string }
(where eventType === "FILE_CLEARANCE_CHANGED")

GET /reports/projects/:id/summary

- **Response:**

```
{
  countsByClearance: Record<ClearanceLevel, number>;
  recentEvents: AuditEvent[];
}
```