# Open-View Project Overview – Handoff Spec (Legacy & Completed)

**Purpose:** One-page, role-aware spec for showing *any* project (ongoing, legacy, completed, cancelled) to *everyone*, while keeping edit actions restricted. No code.

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## 1) Page Map

- **Projects List → Project Overview**
- **Header** (title, status chips, key identifiers)
- **Overview Body**
  - **A. Status Zone** (Lifecycle + completion/cancellation info)
  - **B. Key Facts Grid** (Dir/L1/Case file/Completion)
  - **C. Media** (Files | Photos | Videos)
  - **D. Remarks** (read-all; write limited)
  - **E. ToT Panel** (status, dates, ToT remarks/files)
  - **F. (Active only) Timeline & Stage widgets**

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## 2) Visibility & Actions by Role

**View: Everyone (no restriction).** Actions remain gated.

| Area / Control | Admin | HoD | Comdt | PO | Others |
|---|:---:|:---:|:---:|:---:|:---:|
| View Overview (all sections) | ✓ | ✓ | ✓ | ✓ | ✓ |
| Create Legacy Project | ✓ | ✓ | | | |
| Mark Completed / Endorse Date | ✓ | ✓ | | | |
| Cancel / Reopen Project | ✓ | ✓ | | | |
| Upload Media (Files/Photos/Videos) | ✓ | ✓ | ✓ | | |
| Post / Edit Remarks | ✓ | ✓ | ✓ | | |
| Change ToT Status/Dates | ✓ | ✓ | | | |

**Read-only defaults:** If a user lacks permission, controls are hidden (preferred) or disabled with tooltip "Insufficient privileges".

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# 3) Section Specs

## 3.1 Header

- Shows: Project name; Status chips: `Active`, `Completed on dd MMM yyyy` *or* `Completed in YYYY`, `Cancelled on dd MMM yyyy` (with reason tooltip).
- Secondary line: Sponsoring Line Directorate, Case File #, Lead PO, HoD.

## 3.2 Status Zone (always visible)

- Active: short blurb + link to Timeline section.
- Completed: date chip; "Edit completion" action **(Admin/HoD only)**.
- Cancelled: date + reason; timeline controls hidden globally.

## 3.3 Key Facts Grid (always visible)

- Fields: Sponsoring Line Directorate, L1 Cost (from latest commercial fact), Case File #, Completion Date **or** Completion Year.
- If only year exists, show badge: "Exact date not endorsed yet".

## 3.4 Media (Files | Photos | Videos)

- Visible to everyone.
- **Add** button shown to Admin/HoD/Comdt; binds upload to Project (and optional ToT).
- Thumbnails for Photos; video tile with poster when available; files as icon list. Pagination for >24 items.

## 3.5 Remarks (Project-level)

- Everyone can read. Composer visible to Admin/HoD/Comdt only.
- Scope selector: `General` | `ToT`.

## 3.6 ToT Panel

- Visible to everyone.
- Admin/HoD can set Status: `Not required`, `Not started`, `In progress` (requires Started on), `Completed` (requires Completed on).
- Sub-tabs: **ToT Remarks**, **ToT Files** (same visibility rules as above).

## 3.7 Timeline & Stage Widgets (Active only)

- Visible to everyone but **read-only** for non-privileged roles.
- Hidden entirely for `Completed` or `Cancelled` lifecycle.

## 4) Wireframe Sketches (ASCII)

### Header & Status Zone

```
┌──────────────────────────────────────────────────┐
│ Project: Drone Flying Sim – Phase I      [Active] │
│ Dir: ARTRAC  •  Case: CF/2025/014  •  HoD: Col A  •  PO: Maj B │
├──────────────────────────────────────────────────┤
│ Status: Active  │  Target Close: —               │
│ [Mark Completed] (Admin/HoD)   [Cancel] (Admin/HoD) │
└──────────────────────────────────────────────────┘
```

### Completed (Legacy) Overview

```
┌─────────────────────────────────────────────────────┐
│ Project: VR Gunnery Trainer         [Completed in 2019]  │
│ Dir: EME  •  Case: CF/2019/077                          │
├──────────────┬──────────────────────┬──────────────────┤
│ Key Facts    │ Media (Files/Photos/Videos)│ ToT Panel   │
│ • L1: ₹2.8 Cr│ [Add] (A/HoD/Comdt)  │ Status: Not Started │
│ • Completion:│ ■■■ photo tiles      │ Started on: —    │
│   2019 (endorse│ ▶ video tiles      │ Completed on: — │
│   exact date) │ 📄 files list       │ [Change Status]* │
├──────────────┴──────────────────────┴──────────────────┤
│ Remarks (read-all; write Admin/HoD/Comdt)              │
└─────────────────────────────────────────────────────┘
```

*Change Status = Admin/HoD only

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## 5) States & Empty States

- **No media yet**: "No files uploaded yet." (CTA "Add" for Admin/HoD/Comdt only)
- **No remarks yet**: "Be the first to record an official note."
- **ToT: Not required**: Grey panel with note "ToT not applicable for this project."
- **Completion Year only**: Badge + inline "Endorse exact date" for Admin/HoD.

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## 6) Validation & Rules (non-functional)

- Mutual exclusion: `CompletedOn` vs `CompletedYear` (never both). Endorsement sets `CompletedOn` and clears year.

- ToT transitions: In Progress requires `StartedOn`; Completed requires `CompletedOn` ($\geq$ StartedOn if present).
- Media uplinks: classify `MediaKind = File/Photo/Video`; optional bind to `ToT`.
- No inline scripting; respect CSP and existing JS bundling.

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## 7) Search & Filters

- Tabs: All | Active | Completed | Cancelled | Legacy
- Facets: Year of completion, Sponsoring Line Directorate, ToT Status.
- Search spans name, description, directorate, case file.

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## 8) QA & Acceptance

- Any user can open any project and see all sections.
- Role-gated actions hidden for non-privileged users; tooltips only where helpful.
- Legacy project shows post-completion layout; Active shows timeline.
- Completion endorsement flow replaces Year with exact Date atomically and audits the change.
- ToT updates enforce date requirements and show correctly in UI.

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**Delivery note:** Use existing services for documents and remarks; extend with `MediaKind`, ToT scoping, and lifecycle guards. Ensure pagination on media and remarks for large histories.

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## Addenda – Amendments based on identified issues (Media & ToT linkage)

### Summary of issues

- **Media tabs vs existing** `ProjectPhoto`: EPIC-4 assumed unifying on `ProjectDocument + MediaKind`. Current codebase has a first-class `ProjectPhoto` (cover photos, galleries, lightbox VMs). A straight pivot would break dependencies without a migration/backfill.
- **ToT-bound uploads persistence:** PROJ-134 proposed tagging uploads to a ToT record, but neither `ProjectDocument` nor `ProjectPhoto` currently persists a ToT identifier or EF relationship.

### New EPIC – EPIC-4A: Media consolidation strategy (non-breaking)

**Goal:** Ship the unified Media UI without breaking existing `ProjectPhoto` features; create a safe migration path if consolidation is desired later.

**Stories** - **PROJ-128: Media read-model aggregator** - Build a read service that *merges* media from **both** sources: `ProjectPhoto` (photos) and `ProjectDocument` (files/videos). The UI tabs (Files | Photos | Videos) will query this aggregator. - *Acceptance:* Media tabs show complete results from both sources;

ordering by uploaded date; paging stable across types. - **PROJ-129: Keep** `ProjectPhoto` **intact (Phase-1)** - Do **not** delete or refactor `ProjectPhoto` in Phase-1. Maintain cover-photo hooks, galleries, and lightbox view models. - *Acceptance:* All pre-existing photo surfaces continue to function. - **PROJ-130: Optional Phase-2 consolidation design** - Draft a design doc for a future single table (`ProjectMedia`) with a JSON `Metadata` column capturing `ProjectPhoto` bespoke fields (e.g., caption, orientation, EXIF). No implementation in Phase-1. - *Acceptance:* Reviewed and signed-off design doc; risk analysis; backout plan. - **PROJ-131: Backfill & migration plan (deferred)** - Plan an offline migration script to copy `ProjectPhoto` rows into `ProjectMedia` (if/when adopted), setting `MediaKind = Photo`, mapping fields to `Metadata` and preserving `IsCover` semantics. - *Acceptance:* Dry-run report on staging; checksum counts match; photo thumbnails preserved or regenerated.

**Non-functional / Risks** - Paging across heterogeneous sources; solve by normalising into a single in-memory list from the aggregator, then page. - Thumbnail performance; retain existing thumbnail pipeline for `ProjectPhoto` and add one for `ProjectDocument` images.

## EPIC-6 (Update): ToT linkage across media

**Goal:** Allow files/photos/videos to be scoped to a specific ToT record.

**New/Updated Stories** - **PROJ-136: Add** `TotId` **(nullable) to** `ProjectDocument` - DB migration: `ProjectDocument.TotId` FK→ `ProjectTot(Id)` + index. - EF relationship config and validations. - *Acceptance:* Uploads can persist `TotId`; ToT tab filters by `TotId`. - **PROJ-137: Add** `TotId` **(nullable) to** `ProjectPhoto` - DB migration: `ProjectPhoto.TotId` FK→ `ProjectTot(Id)` + index. - Update photo upload/edit flows to optionally bind to a ToT record. - *Acceptance:* Existing photos unaffected; new ToT-scoped photos appear under ToT Files/Photos sub-tabs. **PROJ-138: UI: ToT-aware uploader** - Upload modal gets an optional selector: "Associate with ToT" (pre-populated if invoked from ToT panel). - *Acceptance:* Selector writes `TotId` correctly for both docs and photos. - **PROJ-139: Read services & filters** - Media aggregator accepts an optional `TotId` filter for ToT panels. - *Acceptance:* ToT sub-tabs list only media bound to that ToT.

**Validation rules** - If a project has no `ProjectTot`, uploader must not allow a `TotId` (guard in UI and API). - When a project's ToT is marked **Not required**, prevent new ToT-bound uploads; show explanation.

## Sequencing updates

1) Implement **EPIC-4A PROJ-128/129** (read-model aggregator; keep `ProjectPhoto`) → enables unified tabs without schema risk. 2) Implement **EPIC-6 PROJ-136–139** (ToT linkage to both `ProjectDocument` and `ProjectPhoto`). 3) Optional later: **EPIC-4A PROJ-130/131** (design + backfill) if consolidation to a single table is approved.

## Jira board inserts (ready-to-create)

- **PROJ-128** — Media read-model aggregator (Story)
  *Desc:* Merge `ProjectPhoto` + `ProjectDocument` into a single query model powering Media tabs.
  *AC:* Complete media listing, stable paging, ordering, type filters.

- **PROJ-129** — Preserve `ProjectPhoto` (Story)
  *Desc:* Keep entity and VMs; wire into aggregator.
  *AC:* No regressions on cover/galleries/lightbox.
- **PROJ-136** — `TotId` on `ProjectDocument` (Story)
  *Desc:* Add FK, EF mapping, UI & API plumbing.
  *AC:* ToT-scoped uploads saved & retrievable.
- **PROJ-137** — `TotId` on `ProjectPhoto` (Story)
  *Desc:* Add FK, EF mapping, update photo flows.
  *AC:* ToT-photo listing works; no regressions.
- **PROJ-138** — ToT-aware uploader (Story)
  *Desc:* Optional ToT association in upload modal for docs/photos.
  *AC:* Writes correct `TotId`.
- **PROJ-139** — Media aggregator: ToT filtering (Story)
  *Desc:* Add `TotId` filter to service; power ToT sub-tabs.
  *AC:* Correctly filtered lists.

## Acceptance impact on existing Epics

- EPIC-4 remains for UI tabs & thumbnails but **relies on PROJ-128/129**.
- EPIC-6 gains persistence via **PROJ-136/137**; PROJ-138/139 wire the UI & services.

## Rollback plan

- If aggregator fails performance SLA, flip feature flag to fall back to the previous per-surface lists while profiling the merge query.
- ToT linkage fields are nullable and non-disruptive; can be hidden from UI if needed while keeping the schema change.