

ManualsInsightsService

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Kind: Service

Source: [atloria-monorepo/apps/api/src/manuals-insights/manuals-insights.service.ts](#)

`ManualsInsightsService` provides backend analytics and automation for the manuals knowledge base. It aggregates insight and deflection data, identifies ticket-topic clusters, generates draft documentation from those clusters, and reports freshness status for tracked manual content.

Methods

Method	Signature	Returns	Description
<code>insights</code>	<code>insights(projectId: string, organizationId: string)</code>	<code>unknown</code>	Authed, org-scoped insights for a project: <code>weakPages</code> — published pages with 🗨 feedback and/or search misses that match them.
<code>deflection</code>	<code>deflection(projectId: string, organizationId: string, days: unknown)</code>	<code>unknown</code>	Deflection & CSAT cockpit (WS-D) for one project.
<code>ticketTopics</code>	<code>ticketTopics(projectId: string, organizationId: string, days: unknown)</code>	<code>Promise<TicketTopicProposal[]></code>	Authed, org-scoped list of content-loop proposals for a project: clusters of resolved QUESTION tickets that recur enough to deserve a

Method	Signature	Returns	Description
			page and aren't already...
<code>generateDraftFromCluster</code>	<code>generateDraftFromCluster(projectId: string, organizationId: string, userId: string, topicKey: string)</code>	<code>Promise<{ documentId: string; slug: string; state: string }></code>	Turn one proposed cluster (by topicKey) into a GROUNDED DRAFT document: - build a neutral, PII-free question from the cluster's shared terms, - answer it via...
<code>freshness</code>	<code>freshness(projectId: string, slug: string)</code>	<code>Promise<{ stale: boolean; tracked: boolean; since?: string; staleCount?: number; commit?: string }></code>	PUBLIC reader-facing freshness for one manual page slug.

Dependencies

- `PrismaService`
- `TechDocsRagService`
- `DraftDocumentService`

Where it refuses work

- `ManualsInsightsService` stops the work with `ForbiddenException` when `!project` — “Project not found in your organization.”, in 4 places.
- `ManualsInsightsService` stops the work with `BadRequestException` when `!cluster` — “No qualifying ticket topic for that key (too few tickets, or already documented).”.
- `ManualsInsightsService` stops the work with an early return when `!entitiesJson` .
- `ManualsInsightsService` stops the work with an early return when `!Array.isArray(entities) || !entities.length` .
- `ManualsInsightsService` stops the work with an early return when `!topicTerms.length` .
- `ManualsInsightsService` stops the work with an early return when `!slug` .

When something fails

- `ManualsInsightsService` handles failure in 1 place: it discards it silently in all 1.

Diagram

```
sequenceDiagram
    participant Client
    participant Controller
    participant Service as ManualsInsightsService
    participant Tickets as Ticket Data Source
    participant Manuals as Manuals Repository

    Client->>Controller: Request insights, topics, or freshness
    Controller->>Service: Call service method

    alt Ticket topic analysis
        Service->>Tickets: Load and cluster ticket data
        Tickets-->>Service: Ticket clusters
        Service-->>Controller: TicketTopicProposal[]
    else Generate draft
        Service->>Tickets: Read selected topic cluster
        Service->>Manuals: Create draft manual document
        Manuals-->>Service: documentId, slug, state
        Service-->>Controller: Draft metadata
    else Freshness check
        Service->>Manuals: Compare tracked content with source state
        Manuals-->>Service: Tracking and commit information
        Service-->>Controller: Freshness result
    end

    Controller-->>Client: API response
```

Usage

```
import { Injectable } from '@nestjs/common';
import { ManualsInsightsService } from '../manuals-insights.service';

@Injectable()
export class ManualsInsightsController {
  constructor(
    private readonly manualsInsightsService: ManualsInsightsService,
  ) {}

  async getTicketTopics() {
    return this.manualsInsightsService.ticketTopics();
  }

  async createDraftFromTopicCluster() {
    const draft =
      await this.manualsInsightsService.generateDraftFromCluster();

    return {
      documentId: draft.documentId,
      slug: draft.slug,
      state: draft.state,
    };
  }
}
```

```

async getFreshness() {
  const freshness = await this.manualsInsightsService.freshness();

  return {
    stale: freshness.stale,
    tracked: freshness.tracked,
    staleCount: freshness.staleCount ?? 0,
    lastTrackedCommit: freshness.commit,
  };
}
}

```

AI Coding Instructions

- Inject `ManualsInsightsService` through NestJS dependency injection; do not instantiate it directly.
- Use `ticketTopics()` before generating documentation drafts so draft creation is based on validated ticket clusters.
- Treat `generateDraftFromCluster()` output as draft metadata; consumers should handle the returned `state` before publishing or exposing content.
- Handle optional `freshness()` fields such as `since`, `staleCount`, and `commit` defensively when the manual is not tracked.
- Keep insight and deflection endpoints read-oriented, and avoid adding write side effects outside explicit draft-generation workflows.

Relationships

- `DEPENDS_ON` → `PrismaService`
- `DEPENDS_ON` → `TechDocsRagService`
- `DEPENDS_ON` → `DraftDocumentService`

Referenced By

- `ManualsInsightsController` (`DEPENDS_ON`)
- `ManualsInsightsModule` (`MODULE_PROVIDES`)