

DocsPrQueue

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Kind: Service**Source:** [atloria-monorepo/apps/api/src/docs-pr/docs-pr-queue.service.ts](https://github.com/atloria-monorepo/apps/api/src/docs-pr/docs-pr-queue.service.ts)

Durable queue for the automatic docs-PR flow. Turns the webhook's fire-and-forget run into a

Redis-backed job: it survives pod restarts, retries on transient failures (a GitHub blip), and

is observable. The worker runs in-process (low volume, seconds per job). Redundant jobs are

harmless — the adapter's deterministic branch makes every run idempotent.

The processor is registered by DocsPrService (callback, not DI) so there's no module cycle.

If Redis is unavailable, `enqueue` returns false and the caller runs inline (behavior preserved).

`DocsPrQueue` provides a Redis-backed, durable job queue for the automatic documentation pull request workflow. It accepts webhook-triggered work, retries transient failures, and runs a registered in-process processor while preserving the existing inline fallback when Redis is unavailable. The processor is registered by `DocsPrService` via callback to avoid a NestJS module dependency cycle.

Methods

Method	Signature	Returns	Description
<code>registerProcessor</code>	<code>registerProcessor(fn: (job: DocsPrJob) => Promise<void>)</code>	<code>void</code>	
<code>enqueue</code>	<code>enqueue(job: DocsPrJob)</code>	<code>Promise<boolean></code>	Durable enqueue; returns false if the queue is unavailable

Method	Signature	Returns	Description
			so the caller can run inline.
onModuleInit	onModuleInit()	unknown	
onModuleDestroy	onModuleDestroy()	unknown	

Dependencies

- ConfigService

Where it refuses work

- DocsPrQueue stops the work with an early return when `!this.queue` .

When something fails

- DocsPrQueue handles failure in 2 places: it logs it and continues in 1, and turns it into a return value in 1.

Diagram

```
sequenceDiagram
    participant Webhook as GitHub Webhook
    participant Service as DocsPrService
    participant Queue as DocsPrQueue
    participant Redis as Redis Queue
    participant Worker as In-process Worker
    participant GitHub as GitHub API

    Webhook->>Service: docs PR event
    Service->>Queue: enqueue(job)

    alt Redis available
        Queue->>Redis: persist job
        Redis-->>Queue: job accepted
        Queue-->>Service: true
        Worker->>Redis: claim next job
        Worker->>Queue: run registered processor
        Queue->>GitHub: create/update deterministic PR branch
        GitHub-->>Queue: result
    else Redis unavailable
        Queue-->>Service: false
        Service->>GitHub: run docs PR flow inline
    end
end
```

Usage

```
import { Injectable, OnModuleInit } from '@nestjs/common';
import { DocsPrQueue } from '../docs-pr-queue.service';

@Injectable()
export class DocsPrService implements OnModuleInit {
  constructor(private readonly docsPrQueue: DocsPrQueue) {}

  onModuleInit(): void {
    this.docsPrQueue.registerProcessor(async () => {
      // Run the idempotent docs PR workflow here.
      // The GitHub adapter should use a deterministic branch name so retries
      // and duplicate jobs safely update the same pull request.
      await this.createOrUpdateDocsPullRequest();
    });
  }

  async handleWebhook(): Promise<void> {
    const queued = await this.docsPrQueue.enqueue();

    if (!queued) {
      // Preserve webhook behavior when Redis or the queue is unavailable.
      await this.createOrUpdateDocsPullRequest();
    }
  }

  private async createOrUpdateDocsPullRequest(): Promise<void> {
    // Generate docs, push the deterministic branch, and create/update the PR.
  }
}
```

AI Coding Instructions

- Register the processor from `DocsPrService` using `registerProcessor()` rather than injecting `DocsPrService` into the queue; this prevents a NestJS module cycle.
- Treat `enqueue()` returning `false` as an expected Redis-unavailable path and execute the docs PR flow inline to preserve webhook behavior.
- Keep processor work idempotent: duplicate queue jobs and retries must safely update the same deterministic GitHub branch/PR.
- Do not move long-running work into the webhook handler when queueing succeeds; let the in-process worker claim and process persisted jobs.
- Ensure lifecycle hooks remain wired so queue resources and worker processing are initialized and shut down through NestJS module lifecycle events.

Relationships

- `DEPENDS_ON` → `configservice`

Referenced By

- `DocsPrModule` (`MODULE_PROVIDES`)
- `DocsPrService` (`DEPENDS_ON`)