

AuthContextService

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Kind: Service**Source:** [atloria-monorepo/apps/screenshot-worker/src/app/screenshot/services/auth-context.service.ts](https://github.com/atloria-monorepo/apps/screenshot-worker/src/app/screenshot/services/auth-context.service.ts)

Service for authenticated browser-context lifecycle.

Extracted verbatim from BatchScreenshotService so that batch capture, flow-replay (WS-A) and clip capture (WS-B) can all share ONE implementation of login / session-loss detection / re-auth without forking it.

`AuthContextService` owns the lifecycle of authenticated browser contexts for screenshot-worker capture jobs. It centralizes login, session validation, session-loss detection, and re-authentication so batch screenshots, flow replay, and clip capture use the same authentication behavior without duplicating browser-session logic.

Methods

Method	Signature	Returns	Description
<code>createAuthenticatedContext</code>	<code>createAuthenticatedContext(browser: Browser, auth: BatchAuthConfigDto, config: Required<BatchConfigDto>, locale: string)</code>	<code>Promise<BrowserContext></code>	Create authenticated browser context For SPA logins, we keep the login page open and navigate from it instead of closing it.
<code>isSessionLost</code>	<code>isSessionLost(page: Page, auth: BatchAuthConfigDto, targetUrl: string)</code>	<code>Promise<boolean></code>	Check if session is lost (page redirected to login) Simple check: if URL contains login patterns, session is

Method	Signature	Returns	Description
			lost BUT: if the target URL itself was a login p...
reAuthenticate	reAuthenticate(context: BrowserContext, auth: BatchAuthConfigDto, config: Required<BatchConfigDto>)	Promise<void>	Re-authenticate when session is lost Creates a new page in the context, performs login, then closes it.

Where it refuses work

- `AuthContextService` stops the work with `Error` when `auth.useSmartDetection` — “Smart detection is not available. Please provide explicit login selectors (usernameSelect...”, in 2 places.
- `AuthContextService` stops the work with `Error` when `!usernameSelector || !passwordSelector || !submitSelector` — “Missing login selectors (username, password, submit)”.
- `AuthContextService` stops the work with `Error` when `!usernameSelector || !passwordSelector || !submitSelector` — “Missing login selectors for re-authentication”.
- `AuthContextService` stops the work with an early return when `!href || href === url`.
- `AuthContextService` stops the work with an early return when `visible`.

When something fails

- `AuthContextService` handles failure in 7 places: it discards it silently in 4, lets it reach the caller in 2, and logs it and continues in 1.

Diagram

```
sequenceDiagram
    participant Caller as Capture Service
    participant Auth as AuthContextService
    participant Browser as Browser Context
    participant App as Target Application

    Caller->>Auth: acquireAuthenticatedContext(credentials)
    Auth->>Browser: Create or reuse browser context
    Auth->>App: Check existing session

    alt Session is valid
        App-->>Auth: Authenticated session detected
```

```

else Session missing or expired
  Auth->>App: Perform login flow
  App-->>Auth: Session established
end

Auth->>Caller: Authenticated browser context
Caller->>App: Run screenshot / replay / clip capture

alt Session loss detected during capture
  Caller->>Auth: Re-authenticate context
  Auth->>App: Perform login flow again
  Auth-->>Caller: Refreshed authenticated context
end

```

Usage

```

import { Injectable } from '@nestjs/common';
import { AuthContextService } from '../services/auth-context.service';

@Injectable()
export class BatchCaptureService {
  constructor(
    private readonly authContextService: AuthContextService,
  ) {}

  async captureScreenshot(job: ScreenshotJob) {
    const context = await this.authContextService.acquireAuthenticatedContext({
      loginUrl: job.loginUrl,
      username: job.username,
      password: job.password,
    });

    try {
      const page = await context.newPage();

      await page.goto(job.targetUrl, { waitUntil: 'networkidle' });

      // Re-authenticate when the target application redirects to login
      // or otherwise indicates that the session has expired.
      if (await this.authContextService.isSessionLost(page)) {
        await this.authContextService.reauthenticate(context, job.credentials);
        await page.goto(job.targetUrl, { waitUntil: 'networkidle' });
      }

      return await page.screenshot({ fullPage: true });
    } finally {
      await context.close();
    }
  }
}

```

AI Coding Instructions

- Use `AuthContextService` for every authenticated browser workflow; do not implement login or session-expiry handling independently in batch, flow-replay, or clip services.
- Check for session loss after navigation and before capture-sensitive actions, especially when target applications can redirect to a login page.
- Keep browser-context ownership clear: callers should close contexts/pages they acquire unless the service explicitly manages pooled or reused contexts.
- Preserve the shared authentication contract when adding new capture modes so login credentials, session checks, and re-authentication remain consistent.
- Avoid treating a successful page load as proof of authentication; use the service's session-detection logic for application-specific validation.

Referenced By

- `ScreenshotModule` (MODULE_PROVIDES)
- `BatchScreenshotService` (DEPENDS_ON)
- `FlowReplayService` (DEPENDS_ON)