Solutions

2.1

- In the visitor's browser.

2.2

- A response.

2.3

- Browser code can be read by every visitor.
- The key could be copied and misused.

3.1

- A visitor can bypass or change browser-side JavaScript.
- They may find the PDF URL directly.
- The check is only a convenience, not enforced protection.
- The server must check enrolment before sending the file.

3.2

- The browser requests the PDF from a back-end route.
- The server checks the user's authenticated enrolment.
- If permitted, it returns the PDF response; otherwise it rejects the request.
- The secret data and enforced rule remain on the server.