

# Data Paging, HTTP Headers and CSRF

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# Module Overview



Add a paging header to a RESTful service response

Access headers in an Angular service

Add paging support to a component

Adding a paging component

CSRF Overview

Add CSRF functionality

Using a CSRF token in an Angular service



# Adding a Paging Header to a RESTful Service Response

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# Accessing Headers and Data in an Angular Service

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# Adding Paging Support to a Component

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# Adding a Paging Component

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# CSRF Overview

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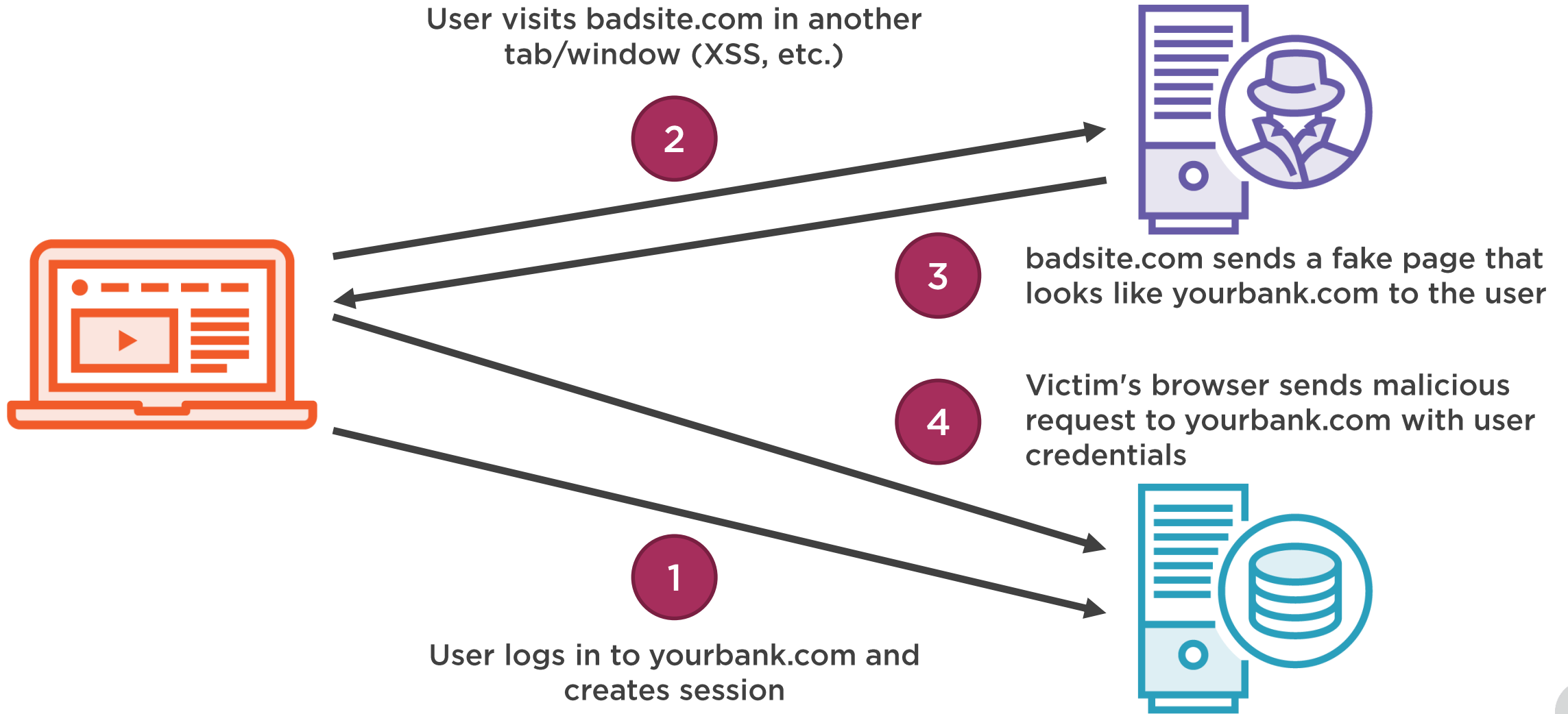
# CSRF

Cross-Site Request Forgery





# What is CSRF?



# How CSRF Works

## Form Post from badsite.com

```
<form action="https://yourbank.com/someOperation" method="POST">  
  <button type="submit">Click here for free money!</button>  
</form>  
<script>  
  document.forms[0].submit();  
</script>
```

## Http/Ajax request from badsite.com

```
<script>  
  http.post('http://yourbank.com/api/someOperation', data);  
</script>
```



# Adding CSRF Functionality

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yourbank.com passes a cookie to the client  
that contains a CSRF token value



Client sends the cookie back to yourbank.com  
AND sets a header with the cookie value in it

Server compares cookie  
value to header value



# Using a CSRF Token in an Angular Service

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# Summary



Headers can be used to send and receive data for paging and more

Components provide a reusable way to add paging functionality

CSRF attacks can be shutdown using a combination of a cookie and a header

Angular provides built-in CSRF functionality

