

Additional Techniques

HttpSession

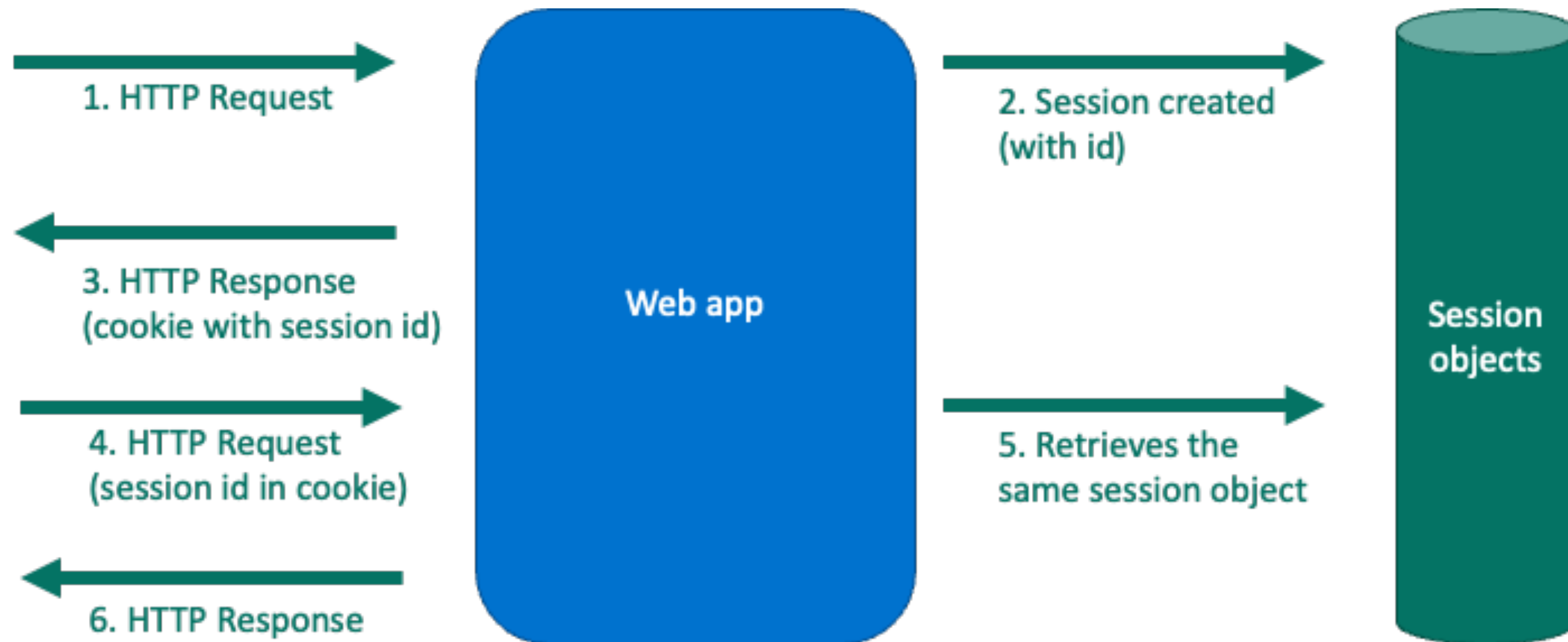
HTTP is stateless

- ▶ When an HTTP request has been handled it is forgotten
- ▶ The web app doesn't know if the next request is by the same user or not
- ▶ HTTP requests are coming in all the time, independent from one another
- ▶ What does this mean when adding items to a shopping cart, or logging in at your internet bank?

HttpSession - keeping state

- ▶ A unique HttpSession object is automatically provided for every client
- ▶ The HttpSession object is just like a Map that can store individual data
- ▶ The individual HttpSession object is then automatically found when another request comes in from the same user

How HttpSession works



HttpSession in Spring

- ▶ You can ask for a HttpSession object as input argument in a method
- ▶ You can also set the @SessionScope annotation on a @Service class, then it will be put in the unique session object of each user and each object would only be used by the same unique user

Demo 1 - Using HttpSession

- ▶ Using @SessionScope in a @Service class
- ▶ Using an HttpSession as input argument in Controller method

Exercise 1 - HttpSession

- ▶ Create an application where a user can shop different items and the items are stored in a personal shopping cart
- ▶ The user can add items by sending names of items as request params or by submitting a form with an input field for the item name
- ▶ The shopping cart should not be shared by all users but be unique to each user of the application
- ▶ Use @SessionScope och the HttpSession object directly to solve the task