T2 – REST Primes

# What we have done:

We created a server that holds two lists, one with prime numbers and one with non-prime numbers. Clients can connect to this server and send integers with GET requests. This will return a HTTP respond with a string. The string has three states, “-1” if the number is not stored in the server, “1” if it’s a prime number and is stored in the server and a “0” if the number is stored in the server an is a non-prime number.

The Client-side takes an integer as input and sends to server. If the return from the server is “-1” the number will be calculated with a simple algorithm and send the answer with GET request to the server.

# What we could have done more:

The Client takes GET-request when adding to the two lists. This is a bad thing to do if you want to ensure that the lists are correct. When using GET anyone can write the URL with a number they want to add to any list. POST-requests would be a better solution to this and validate that the data is sent from the right function.

# How to use our program:

Start the PrimeNumbersServer with “Run on Server” command.

Start the PrimeNumbersClient as a java application.

The client will ask you for an integer and will return if it’s a prime number or non-prime number.

Authors: Filip Kågesson and Simon Cederbom.