The PrimeCheck App Case Study:
Implementing the Client

Douglas C. Schmidt
d.schmidt@vanderbilt.edu
www.dre.vanderbilt.edu/~schmidt

Professor of Computer Science
Institute for Software Integrated Systems
Vanderbilt University
Nashville, Tennessee, USA
Learning Objectives in this Part of the Lesson

- Understand the implementation of the PrimeCheckClient that sends/receives HTTP GET requests/responses to/from the PrimeCheckApp server
Implementing the PrimeCheck App Client
Implementing the PrimeCheckApp Client

```java
@Component
public class PCClientParallelStream {

    /**
     * This auto-wired field connects the \{@link PCClientParallelStream\}
     * the \{@link PCProxy\} that performs HTTP requests
     * synchronously.
     */

    @Autowired
    private PCProxy mPCProxy;

    /**
     * Send individual HTTP GET requests to the server to check if a
     * the \{@code primeCandidates\} \{@link List\} of \{@link Integer\}
     * objects are prime or not.
     */

    @param primeCandidates A \{@link List\} of \{@link Integer\}
    * objects to check for primality
    * @param parallel True if using parallel streams, else false
    * @return A \{@link List\} of \{@link Integer\} objects indicating
```
End of the PrimeCheck App Case Study: Implementing the Client