The PrimeCheck App Case Study: Implementing Server Components (Part 2)

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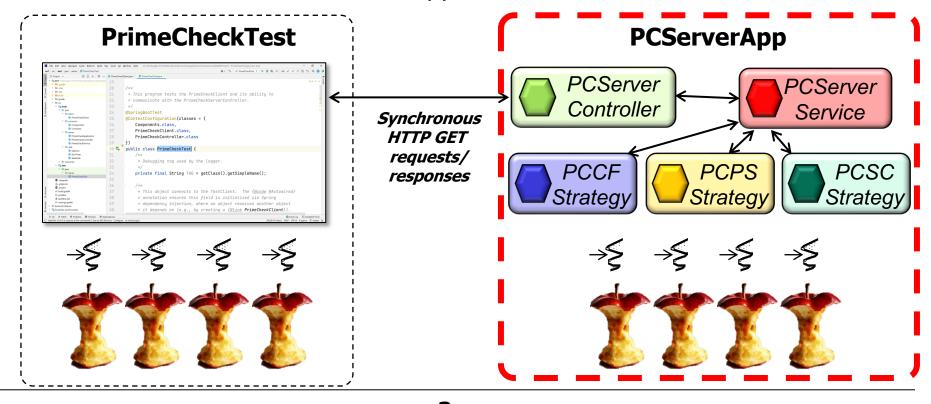
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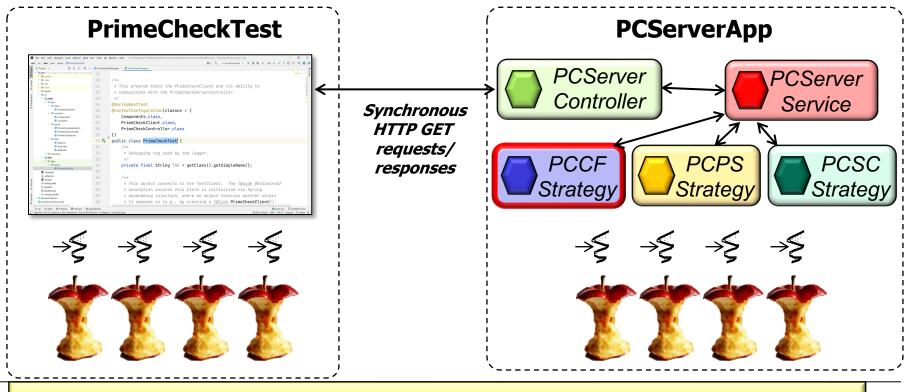
Learning Objectives in this Part of the Lesson

 Understand the implementation of the PCServerController & PCServerService classes that run in the PrimeCheckApplication microservice



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The focus is on several Java completable future concurrency strategies

Implementing the PrimeCheck App Server

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ex1 – PCServerController.java [ex1.main]			
ex1 > src > main > java > primechecker > server > 💿 PCServerController > 👼 checklfPrimeList 🕹 🗸 🔗 PrimeCheckTest 🔻 🕨 🕸 🖏 🗞 🔹 🔳 Git: 🖌 🗸 🦄 🏷 🔍 🗘			
ect	■ Project	C PCServerControlle	r.java ×
Proj	 Ex1 ~/Dropbox/Documents/opp/Pearson/LiveLessons/Web igradle 	41	@RestController
ц;	> 🖿 .idea	42 🔍	<pre>public class PCServerController {</pre>
ts 👌 Commit	> 🖿 .run	43 🖃	/** 9
	> In gradle > In src	44	* This auto-wired field connects the {@link PCServerControll(
Reques	main	45	* to the {@link PCServerService}.
ull Re	 D primechecker 	46	*/
lti	 common Components 	47	@Autowired
	© Constants © Options	48 😫	PCServerService mService; -
	✓ Im server	49	
	Strategies	50 -	/**
	 PCAbstractStrategy PCCompletableFutureStrategy PCParallelStreamStrategy 	51	, * Checks the {@code primeCandidate} param for primality,
	© PCStructuredConcurrencyStrategy	52	* returning 0 if it's prime or the smallest factor if it's n
	C PCServerApplication	53	*
	C PCServerService	54	* Spring WebMVC maps HTTP GET requests sent to the {@code
narks	© FuturesCollector	55	* CHECK_IF_PRIME} endpoint to this method.
Bookr	C FutureUtils	56	*
	C PrimeUtils	00	
e		57	* @param primeCandidate The { @link Integer } to check for
Structure	dapplication.properties	58	* primality
∎ St	test	59	* @return An {@link Integer} that is 0 if the {@code
	Y in java P Git ► Run III TODO		Suild S Dependencies

See github.com/douglascraigschmidt/LiveLessons/tree/master/WebMVC/ex1

End of the PrimeCheck App Case Study: Implementing Server Components (Part 2)