1. Record Nr. UNINA9911009289703321

Autore Gospodinov Svilen

Titolo Concurrent data processing in Elixir : fast, resilient applications with OTP, GenStage, Flow, and Broadway / / Svilen Gospodinov

Pubbl/distr/stampa [Raleigh, North Carolina] : , : The Pragmatic Programmers, LLC, , [2021]
©2021

ISBN 9781680508970
1680508970
9781680508963
1680508962

Edizione [First edition.]

Descrizione fisica 1 online resource (171 pages)

Disciplina 005.133

Soggetti Elixir (Computer program language)
Application software - Development

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

Nota di bibliografia Includes bibliographical references.

Nota di contenuto Cover -- Table of Contents -- Foreword -- Acknowledgments -- Introduction -- Who Should Read This Book? -- About This Book -- About the Code -- Online Resources -- 1. Easy Concurrency with the Task Module -- Introducing the Task Module -- Creating Our Playground -- Starting Tasks and Retrieving Results -- Managing Series of Tasks -- Linking Processes -- Meeting the Supervisor -- Understanding Let It Crash -- Wrapping Up -- 2. Long-Running Processes Using GenServer -- Starting with a Basic GenServer -- GenServer Callbacks In Depth -- Building a Job-Processing System -- Introducing DynamicSupervisor -- Implementing a Supervisor -- Naming Processes Using the Registry -- Inspecting Supervisors at Runtime -- Wrapping Up -- 3. Data-Processing Pipelines with GenStage -- Understanding Back-Pressure -- Introducing GenStage -- Building Your Data-Processing Pipeline -- Adding Concurrency with ConsumerSupervisor -- Creating Multi-Stage Data Pipelines -- Choosing the Right Dispatcher -- Wrapping Up -- 4. Processing Collections with Flow -- Analyzing Airports Data -- Creating Flows and Reading Files -- Performing Reduce Concurrently with Partitions --

Sommario/riassunto	Learn different ways of writing concurrent code in Elixir and increase your application's performance, without sacrificing scalability or fault-tolerance. Most projects benefit from running background tasks and processing data concurrently, but the world of OTP and various libraries can be challenging. Which Supervisor and what strategy to use? What about GenServer? Maybe you need back-pressure, but is GenStage, Flow, or Broadway a better choice? You will learn everything you need to know to answer these questions, start building highly concurrent applications in no time, and write code that's not only fast, but also resilient to errors and easy to scale. Whether you are building a high-frequency stock trading application or a consumer web app, you need to know how to leverage concurrency to build applications that are fast and efficient. Elixir and the OTP offer a range of powerful tools, and this guide will show you how to choose the best tool for each job, and use it effectively to quickly start building highly concurrent applications. Learn about Tasks, supervision trees, and the different types of Supervisors available to you. Understand why processes and process linking are the building blocks of concurrency in Elixir. Get comfortable with the OTP and use the GenServer behaviour to maintain process state for long-running jobs. Easily scale the number of running processes using the Registry. Handle large volumes of data and traffic spikes with GenStage, using back-pressure to your advantage. Create your first multi-stage data processing pipeline using producer, consumer, and producer-consumer stages. Process large collections with Flow, using MapReduce and more in parallel. Thanks to Broadway, you will see how easy it is to integrate with popular message broker systems, or even existing GenStage producers. --

2.	Record Nr.	UNINA9910136234703321
	Autore	Mudd Jack
	Titolo	Jack of all trades / / Jack Mudd
	Pubbl/distr/stampa	Solon, : Audioshelf, 2016
	ISBN	0-9946867-6-5
	Edizione	[Unabridged.]
	Descrizione fisica	1 online resource (13 audio files) : digital
	Classificazione	BIO026000
	Altri autori (Persone)	GalleyAdrian
	Soggetti	Nonfiction Biography & Autobiography
	Lingua di pubblicazione	Inglese
	Formato	Audiolibro
	Livello bibliografico	Monografia
	Note generali	Unabridged.
	Sommario/riassunto	A fantastic story that takes you on a rollercoaster of an adventure through the African bush and beyond. - The Watermark Press Jack of All Trades is about the early life of wildlife expert, fisherman, and raconteur par excellence Jack Mudd, covering his school days and early adventures in mining and construction to a major period of his seagoing days. The book provides a wonderful series of vivid descriptions, humorous incidents, and striking portraits of humanity at large in Jack's inimitable style of South African English. A true reflection of days when men were men and the lions were nervous. ©2014 Jack Mudd (P)2015 Audioshelf