Google App Engine Java and GWT Application Development

Build powerful, scalable, and interactive
web applications in the cloud

Daniel Guermeur   Amy Unruh
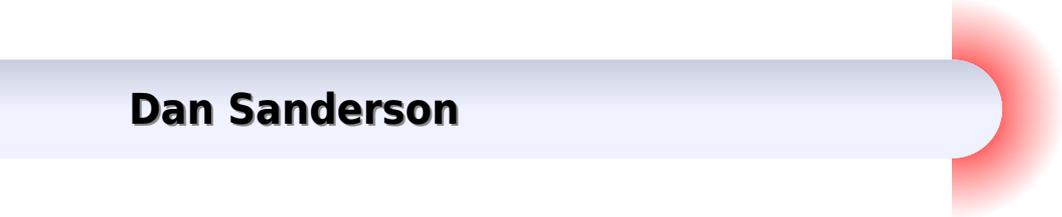
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Dan Sanderson

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Mastering Google App Engine Mohsin Shafique Hijazee,2015-10-08 Build robust and highly scalable web applications with Google App Engine About This Book Get an in depth look at how Google App Engine works under the hood Design and model your application around Google s highly scalable distributed NoSQL datastore to unlock its full potential A comprehensive guide to ensure your mastery of Google App Engine Who This Book Is For If you have been developing web applications in Python or any other dynamic language but have always wondered how to write highly scalable web applications without getting into system administration and other plumbing then this is the book for you No experience in writing scalable applications is required What You Will Learn Scale and develop your applications with Google App Engine s runtime environment Get to grips with request handling mechanism and write request handlers Deep dive into Google s distributed NoSQL and highly scalable datastore and design your application around it Implement powerful search with scalable datastore Perform long running tasks in the background using task queues Write compartmentalized apps using multi tenancy memcache and other Google App Engine runtime services Handle web requests using the CGI WSGI and multi threaded configurations Deploy tweak and manage apps in production on Google App Engine In Detail Developing web applications that serve millions of users is no easy task as it involves a number of configurations and administrative tasks for the underlying software and hardware stack This whole configuration requires not only expertise but also a fair amount of time as well Time that could have been spent on actual application functionality Google App Engine allows you develop highly scalable web applications or backends for mobile applications without worrying about the system administration plumbing or hardware provisioning issues Just focus writing on your business logic the meat of the application and let Google s powerful infrastructure scale it to thousands of requests per second and millions of users without any effort on your part This book takes you from explaining how scalable applications work to designing and developing robust scalable web applications of your own utilizing services available on Google App Engine Starting with a walkthrough of scalability is and how scalable web applications work this book introduces you to the environment under which your applications exist on Google App Engine Next you will learn about Google s datastore which is a massively scalable distributed NoSQL solution built on top of BigTable You will examine the BigTable concepts and operations in detail and reveal how it is used to build Google datastore Armed with this knowledge you will then advance towards how to best model your data and query that along with transactions To augment the powerful distributed dataset you will deep dive into search functionality offered on Google App Engine With the search and storage sorted out you will get a look into performing long running tasks in the background using Google App Engine task queues along with sending and receiving emails You will also examine the memcache to boost web application performance image processing for common image manipulation tasks You will then explore uploading storing and serving large files using Blobstore and Cloud storage Finally you will be presented with the deployment and

monitoring of your applications in production along with a detailed look at dividing applications into different working modules Style and approach This book is an in depth guide where you will examine the problems in the context of highly scalable web applications This book will take you through the libraries services and required configuration and finally puts everything together into a small web application that showcases all the capabilities of Google App Engine *Python for Google App Engine* Massimiliano Pippi,2015-01-27 If you are a Python developer whether you have experience in web applications development or not and want to rapidly deploy a scalable backend service or a modern web application on Google App Engine then this book is for you **Beginning Java Google App Engine** Kyle Roche,Jeff Douglas,2011-01-29 Google App Engine is one of the key technologies to emerge in recent years to help you build scalable web applications even if you have limited previous experience If you are a Java programmer this book offers you a Java approach to beginning Google App Engine You will explore the runtime environment front end technologies like Google Web Toolkit Adobe Flex and the datastore behind App Engine You ll also explore Java support on App Engine from end to end The journey begins with a look at the Google Plugin for Eclipse and finishes with a working web application that uses Google Web Toolkit Google Accounts and Bigtable Along the way you ll dig deeply into the services that are available to access the datastore with a focus on Java Data Objects JDO JDOQL and other aspects of Bigtable With this solid foundation in place you ll then be ready to tackle some of the more advanced topics like integration with other cloud platforms such as Salesforce com and Google Wave NOTE The source code files which accompanied this title are no longer available Neither Apress nor the author is able to supply these files *Essential App Engine* Adriaan de Jonge,2011-10-19 In Essential App Engine Adriaan de Jonge shows Java developers how to rapidly build complex productionquality performance driven cloud applications with Google App Engine Using a start to finish case study and extensive Java example code De Jonge covers the entire lifecycle from application design and data modeling through security testing and deployment De Jonge introduces breakthrough techniques for creating applications that respond within two seconds even on cold startup and allow server responses in hundreds of milliseconds or less throughout the rest of the session He also demonstrates how to avoid common mistakes that can dramatically reduce cloud application performance and scalability He thoroughly covers state of the art user interface development and shows how to make the most of Google App Engine s extensive set of APIs Coverage includes Setting up a development environment that makes it easy to continually address performance Understanding the anatomy of a Google App Engine application Making the right technical setup and design choices for each new application Efficiently modeling data for App Engine s NoSQL data storage Recognizing when to avoid OR mapping and pass datastore entities directly to HTML templates Finding alternatives to frameworks and libraries that impair App Engine performance Using JavaScript and AJAX on the client side of your cloud applications Improving browser performance and reducing resource consumption via better use of HTML5 and CSS3 Taking advantage of key App Engine APIs datastore blobstore mail task scheduling memory caching

URL retrieval and messaging Securing cloud based Web applications with Google Accounts OpenID and OAuth Improving your cloud development quality assurance and deployment processes Targeting marketing and selling cloud solutions from planning to payment handling *Programming Google App Engine with Java* Dan Sanderson,2015-06-30 This practical guide shows intermediate and advanced web and mobile app developers how to build highly scalable Java applications in the cloud with Google App Engine The flagship of Google s Cloud Platform App Engine hosts your app on infrastructure that grows automatically with your traffic minimizing up front costs and accommodating unexpected visitors You ll learn hands on how to perform common development tasks with App Engine services and development tools including deployment and maintenance For Java applications App Engine provides a J2EE standard servlet container with a complete Java 7 JVM and standard library Because App Engine supports common Java API standards your code stays clean and portable Get a hands on introduction to App Engine s tools and features using an example application Simulate App Engine on your development machine directly from Eclipse Structure your app into individually addressable modules each with its own scaling configuration Exploit the power of the scalable Cloud Datastore using queries transactions and data modeling with JPA Use Cloud SQL for standard relational databases with App Engine applications Learn how to deploy manage and inspect your application on Google infrastructure *Programming Google App Engine with Java* Dan Sanderson,2015 This practical guide shows intermediate and advanced web and mobile app developers how to build highly scalable Java applications in the cloud with Google App Engine The flagship of Google s Cloud Platform App Engine hosts your app on infrastructure that grows automatically with your traffic minimizing up front costs and accommodating unexpected visitors You u2019 ll learn hands on how to perform common development tasks with App Engine services and development tools including deployment and maintenance For Java applications App Engine provides a J2EE standard servlet container with a complete Java 7 JVM and standard library Because App Engine supports common Java API standards your code stays clean and portable Get a hands on introduction to App Engine s tools and features using an example application Simulate App Engine on your development machine directly from Eclipse Structure your app into individually addressable modules each with its own scaling configuration Exploit the power of the scalable Cloud Datastore using queries transactions and data modeling with JPA Use Cloud SQL for standard relational databases with App Engine applications Learn how to deploy manage and inspect your application on Google infrastructure <u>Using Google App Engine</u> Charles Severance,2009-05-14 Build exciting scalable web applications quickly and confidently using Google App Engine and this book even if you have little or no experience in programming or web development App Engine is perhaps the most appealing web technology to appear in the last year providing an easy to use application framework with basic web tools While Google s own tutorial assumes significant experience Using Google App Engine will help anyone get started with this platform By the end of this book you ll know how to build complete interactive applications and deploy them to the cloud using the same servers that power Google

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and executes application code Learn how to use App Engine s scalable datastore including queries and indexes transactions and data modeling Use task queues to parallelize and distribute work across the infrastructure Deploy and manage applications with ease   *Mastering Google App Engine* Mohsin Shafique Hijazee,2015-10-08 Build robust and highly scalable web applications with Google App Engine About This Book Get an in depth look at how Google App Engine works under the hood Design and model your application around Google s highly scalable distributed NoSQL datastore to unlock its full potential A comprehensive guide to ensure your mastery of Google App Engine Who This Book Is For If you have been developing web applications in Python or any other dynamic language but have always wondered how to write highly scalable web applications without getting into system administration and other plumbing then this is the book for you No experience in writing scalable applications is required What You Will Learn Scale and develop your applications with Google App Engine s runtime environment Get to grips with request handling mechanism and write request handlers Deep dive into Google s distributed NoSQL and highly scalable datastore and design your application around it Implement powerful search with scalable datastore Perform long running tasks in the background using task queues Write compartmentalized apps using multi tenancy memcache and other Google App Engine runtime services Handle web requests using the CGI WSGI and multi threaded configurations Deploy tweak and manage apps in production on Google App Engine In Detail Developing web applications that serve millions of users is no easy task as it involves a number of configurations and administrative tasks for the underlying software and hardware stack This whole configuration requires not only expertise but also a fair amount of time as well Time that could have been spent on actual application functionality Google App Engine allows you develop highly scalable web applications or backends for mobile applications without worrying about the system administration plumbing or hardware provisioning issues Just focus writing on your business logic the meat of the application and let Google s powerful infrastructure scale it to thousands of requests per second and millions of users without any effort on your part This book takes you from explaining how scalable applications work to designing and developing robust scalable web applications of your own utilizing services available on Google App Engine Starting with a walkthrough of scalability is and how scalable web applications work this book introduces you to the environment under which your applications exist on Google App Engine Next you will learn about Google s datastore which is a massively scalable distributed NoSQL solution built on top of BigTable You will examine the BigTable concepts and operations in detail and reveal how it is used to build Google datastore Armed with this knowledge you will then advance towards how to best model your data and query that along with transactions To augment the powerful distributed dataset you will deep dive into search functionality offered on Google App Engine With the search and storage sorted out you will get a look into performing long running tasks in the background using Google App Engine task queues along with sending and receiving emails You will also examine the memcache to boost web application performance image processing for common image manipulation tasks You will then explore uploading

storing and serving large files using Blobstore and Cloud storage Finally you will be presented with the deployment and monitoring of your applications in production along with a detailed look at dividing applications into different working modules Style and approach This book is an in depth guide where you will examine the problems in the context of highly scalable web applications This book will take you through the libraries services and required configuration and finally puts everything together into a small web application that showcases all the capabilities of Google App Engine *Mastering Google App Engine* Mohsin Shafique Hijazee,2015-10-08 Build robust and highly scalable web applications with Google App EngineAbout This Book Get an in depth look at how Google App Engine works under the hood Design and model your application around Google s highly scalable distributed NoSQL datastore to unlock its full potential A comprehensive guide to ensure your mastery of Google App EngineWho This Book Is ForIf you have been developing web applications in Python or any other dynamic language but have always wondered how to write highly scalable web applications without getting into system administration and other plumbing then this is the book for you No experience in writing scalable applications is required What You Will Learn Scale and develop your applications with Google App Engine s runtime environment Get to grips with request handling mechanism and write request handlers Deep dive into Google s distributed NoSQL and highly scalable datastore and design your application around it Implement powerful search with scalable datastore Perform long running tasks in the background using task queues Write compartmentalized apps using multi tenancy memcache and other Google App Engine runtime services Handle web requests using the CGI WSGI and multi threaded configurations Deploy tweak and manage apps in production on Google App EngineIn DetailDeveloping web applications that serve millions of users is no easy task as it involves a number of configurations and administrative tasks for the underlying software and hardware stack This whole configuration requires not only expertise but also a fair amount of time as well Time that could have been spent on actual application functionality Google App Engine allows you develop highly scalable web applications or backends for mobile applications without worrying about the system administration plumbing or hardware provisioning issues Just focus writing on your business logic the meat of the application and let Google s powerful infrastructure scale it to thousands of requests per second and millions of users without any effort on your part This book takes you from explaining how scalable applications work to designing and developing robust scalable web applications of your own utilizing services available on Google App Engine Starting with a walkthrough of scalability is and how scalable web applications work this book introduces you to the environment under which your applications exist on Google App Engine Next you will learn about Google s datastore which is a massively scalable distributed NoSQL solution built on top of BigTable You will examine the BigTable concepts and operations in detail and reveal how it is used to build Google datastore Armed with this knowledge you will then advance towards how to best model your data and query that along with transactions To augment the powerful distributed dataset you will deep dive into search functionality offered on Google App Engine With the search and storage

sorted out you will get a look into performing long running tasks in the background using Google App Engine task queues along with sending and receiving emails You will also examine the memcache to boost web application performance image processing for common image manipulation tasks You will then explore uploading storing and serving large files using Blobstore and Cloud storage Finally you will be presented with the deployment and monitoring of your applications in production along with a detailed look at dividing applications into different working modules Style and approachThis book is an in depth guide where you will examine the problems in the context of highly scalable web applications This book will take you through the libraries services and required configuration and finally puts everything together into a small web application that showcases all the capabilities of Google App Engine **Essential GWT** Federico Kereki,2010-07-28 With Google Web Toolkit Java developers can build sophisticated Rich Internet Applications RIAs and complete Web sites using the powerful IDEs and tools they already use Now with GWT 2 Google Web Toolkit has become even more useful Essential GWT shows how to use this latest version of GWT to create production solutions that combine superior style performance and interactivity with exceptional quality and maintainability Federico Kereki quickly reviews the basics and then introduces intermediate and advanced GWT skills covering issues ranging from organizing projects to compiling and deploying final code Throughout he focuses on best practice methodologies and design patterns For example you ll learn how to use the MVP model view presenter pattern to improve application design and support automated testing for agile development Kereki illuminates each concept with realistic code examples that help developers jump start their projects and get great results more quickly Working with the latest versions of open source tools such as Eclipse Subversion Apache Tomcat and MySQL he demonstrates exactly how GWT fits into real Web development environments Coverage includes Using the Google Plugin for Eclipse and the GWT Shell Script Detecting and working with browsers and solving the problems they cause Building better user interfaces with the MVP pattern Using APIs for visualization mapping weather data and more Internationalizing and localizing GWT code Securing GWT applications with cryptography hashing and encryption Testing with JUnit Emma GWTTestCase Selenium and Mock Objects Deploying client only and client plus server GWT applications

Building Mobile Applications with Java Joshua Marinacci,2012-03-09 Do you want to develop mobile apps with Java and have them work on a variety of devices powered by iOS and Android You ve come to the right place This project driven book shows you how to build portable apps with two amazing open source frameworks Google Web Tools GWT and PhoneGap With these tools you ll use learn how to write Java code that compiles into cross platform Javascript and HTML and discover how to take advantage of features in several popular devices such as the camera accelerometer and GPS Get started with GWT by building an example Twitter search app Build a example web app and adapt it for mobile with CSS Add touch centric controls with the GWT Mobile UI library Develop a working wine journal app that tracks a user s GPS location Use techniques to make a mobile version of your web or desktop app Work with HTML5 Canvas to build a mobile video game Package your

apps for iOS webOS and Android with PhoneGap **The Definitive Guide to Modernizing Applications on Google Cloud** Steve (Satish) Sangapu,Dheeraj Panyam,Jason Marston,2022-01-06 Get to grips with the tools services and functions needed for application migration to help you move from legacy applications to cloud native on Google Cloud Key FeaturesDiscover how a sample legacy application can be transformed into a cloud native application on Google CloudLearn where to start and how to apply application modernization techniques and toolingWork with real world use cases and instructions to modernize an application on Google CloudBook Description Legacy applications which comprise 75 80% of all enterprise applications often end up being stuck in data centers Modernizing these applications to make them cloud native enables them to scale in a cloud environment without taking months or years to start seeing the benefits This book will help software developers and solutions architects to modernize their applications on Google Cloud and transform them into cloud native applications This book helps you to build on your existing knowledge of enterprise application development and takes you on a journey through the six Rs rehosting replatforming rearchitecting repurchasing retiring and retaining You ll learn how to modernize a legacy enterprise application on Google Cloud and build on existing assets and skills effectively Taking an iterative and incremental approach to modernization the book introduces the main services in Google Cloud in an easy to understand way that can be applied immediately to an application By the end of this Google Cloud book you ll have learned how to modernize a legacy enterprise application by exploring various interim architectures and tooling to develop a cloud native microservices based application What you will learnDiscover the principles and best practices for building cloud native applicationsStudy the six Rs of migration strategy and learn when to choose which strategyRehost a legacy enterprise application on Google Compute EngineReplatform an application to use Google Load Balancer and Google Cloud SQLRefactor into a single page application SPA supported by REST servicesReplatform an application to use Google Identity Platform and Firebase AuthenticationRefactor to microservices using the strangler patternAutomate the deployment process using a CI CD pipeline with Google Cloud BuildWho this book is for This book is for software developers and solutions architects looking to gain experience in modernizing their enterprise applications to run on Google Cloud and transform them into cloud native applications Basic knowledge of Java and Spring Boot is necessary Prior knowledge of Google Cloud is useful but not mandatory *Designing Applications for Google Cloud Platform* Ashutosh Shashi,2023-07-04 Learn how to use Google Cloud Platform GCP and its services to design build and deploy applications This book includes best practices practical examples and code snippets written in Java making it a key resource for developers seeking hands on experience with GCP You ll begin with an introduction to GCP services and a review of what Java offers while developing applications for GCP Next you ll be walked through how to set up Google App Engine Google Storage Cloud and Google Cloud SQL with use cases as well as application development and deployment As the book progresses you ll be exposed to advanced GCP services deploying and scaling applications on GCP services and troubleshooting and optimization of Java applications on GCP The

book uses real world examples to help you understand how GCP services can solve everyday problems After completing this book you will understand Google Cloud Platform and its services and will have the knowledge needed to design build and deploy your own applications on GCP using Java What You ll Learn Create a GCP project configure authentication and authorization and deploy a sample application Use GCP services to solve common problems and apply them to real world scenarios Implement GCP services such as Datastore SQL and Spanner Leverage GCP tools such as the SDK and Cloud Shell Who This Book Is For Software developers Cloud architects and managers looking to design and build applications for Google Cloud Platform This book is for those with software development experience who are familiar with Java programming It is also suitable for those new to GCP who have a basic understanding of cloud computing concepts **Accelerated GWT** Vipul Gupta,2008-05-21 Ajax is a web development technique that takes advantage of JavaScript to display and interact dynamically with information embedded into a web page Its emergence has made it possible to create web applications that closely resemble their desktop based brethren With this exciting new ability came several challenges not only did developers have to learn JavaScript but they were also forced to use inefficient development processes not to mention deal with cross platform and browser difficulties But with the release of Google Web Toolkit GWT Java developers are able to continue using their favorite language to write powerful Ajax applications while using not only the Java language but also the very same development tools they re already using on a daily basis Serious Java developers wanting to write Ajax applications using GWT can expect a fast paced yet thorough introduction to GWT from Java expert Vipul Gupta You ll gain key insights into the GWT framework s capabilities and can rely on clear instruction that will show you how to incorporate GWT into your daily development routine in the most effective way Accelerated GWT introduces you to the popular GWT framework in a way that will allow you to begin using GWT in short order Forgoing superfluous introductions to JavaScript and Ajax you ll instead be immersed in GWT fundamentals from the very first chapter Subsequent chapters discuss key GWT concepts such as architecture widgets and RPC Understanding you ll want to efficiently integrate GWT into your development workflow the author also devotes time to sound GWT application design testing and internationalization issues What you ll learn Use GWT s Remote Procedure Call RPC capabilities to greatly enhance the user experience by optimizing application performance Go beyond basic syntax fundamentals to learn how to most effectively design and test your GWT applications Build complex interfaces by taking advantage of GWT s advanced widget offerings Who this book is for Java minded web developers seeking to incorporate Ajax capabilities into their web applications without sacrificing sound development principles Table of Contents GWT Basics and a First Application GWT Architecture and Internal Features UI Programming Basic Widgets Communication RPC UI Programming Handling Events and Using AdvancedWidgets Communication Advanced Techniques Testing GWT Applications Internationalizing Your Applications A Modern Day Reality Some Important Not to Be Missed Techniques Peeking Into the Upcoming GWT 1 5 Release **Java Apps with Cloud9 on App Engine** Brett Hooper,2017 In

this course we ll discover how Cloud9 works how we can get access to an environment and how to get a work space setup for Google App Engine Java development We ll learn the ins and outs of coding in the cloud and see just how efficient it can be Resource description page

Embracing the Tune of Appearance: An Emotional Symphony within **Google App Engine Java And Gwt Application Development Unruh Amy**

In a world eaten by screens and the ceaseless chatter of fast communication, the melodic beauty and emotional symphony produced by the published word often fade in to the backdrop, eclipsed by the persistent sound and disruptions that permeate our lives. But, nestled within the pages of **Google App Engine Java And Gwt Application Development Unruh Amy** an enchanting literary value overflowing with organic emotions, lies an immersive symphony waiting to be embraced. Crafted by a masterful musician of language, that interesting masterpiece conducts readers on a psychological trip, well unraveling the hidden songs and profound affect resonating within each carefully constructed phrase. Within the depths of the touching assessment, we can discover the book is central harmonies, analyze their enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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