

Nosql Web Development With Apache Cassandra By Deepak Vohra

Nosql Web Development With Apache Cassandra By Deepak Vohra NoSQL Web Development with Apache Cassandra Unleashing the Power of Distributed Data This comprehensive guide delves into the world of NoSQL database technology and specifically explores the robust capabilities of Apache Cassandra empowering web developers to build scalable highperformance applications NoSQL Apache Cassandra web development database scalability highperformance distributed data data modeling query language application development best practices The landscape of modern web development is characterized by the everincreasing demand for scalable and highperformance applications capable of handling massive amounts of data Traditional relational databases often struggle to meet these demands Enter NoSQL a paradigm shift in data management offering flexible data models distributed architectures and unparalleled scalability Apache Cassandra a leading NoSQL database stands out for its reliability high availability and seamless horizontal scaling This book provides a thorough exploration of Apache Cassandra equipping web developers with the knowledge and skills needed to design develop and deploy powerful applications leveraging this powerful technology Dive into the world of NoSQL and Apache Cassandra This book is your comprehensive guide to mastering NoSQL web development with Apache Cassandra It covers essential concepts practical techniques and realworld applications empowering you to Unravel the intricacies of NoSQL Understand the fundamental principles of NoSQL databases contrasting them with traditional relational databases Master the power of Apache Cassandra Explore the architecture features and capabilities of Apache Cassandra understanding its strengths and limitations Embrace the flexibility of data modeling Learn how to design effective data models tailored for the unique characteristics of NoSQL and Apache Cassandra Craft powerful query solutions Master the Cassandra Query Language CQL enabling you to 2 efficiently retrieve and manipulate data within your applications Build robust and scalable applications Learn how to leverage Apache Cassandras distributed nature to create applications capable of handling massive data volumes and user traffic Implement best practices for Cassandra development Discover key strategies for optimizing performance ensuring data consistency and maximizing the efficiency of your Cassandra deployments Explore realworld use cases Gain insights from practical examples illustrating how Apache Cassandra excels in diverse applications like social media ecommerce and realtime analytics Beyond the basics This book goes beyond the surface level delving into advanced topics like Data consistency and replication strategies Understand the tradeoffs between consistency and performance and how to choose the right replication approach for your applications Performance optimization and tuning Learn how to analyze Cassandra performance identify bottlenecks and optimize your database configurations for optimal efficiency Integration with other technologies Explore the integration of Apache Cassandra with various technologies like Java Python and frameworks like Spring Boot and Nodejs Security and data management Discover strategies for securing your Cassandra data implementing proper access controls and ensuring data integrity This book is your comprehensive resource whether you are A web developer looking to expand your skillset and embrace NoSQL technology A developer seeking to leverage the power of Apache Cassandra for building high performance applications A data professional interested in exploring the potential of NoSQL databases for efficient data management ThoughtProvoking Conclusion As the world of data continues to explode the need for scalable reliable and flexible data management solutions grows exponentially NoSQL databases like Apache Cassandra are at the forefront of this evolution providing a powerful and adaptable approach to handling data challenges in the modern web By embracing

the power of Apache Cassandra you gain access to a world of possibilities unlocking new levels of scalability performance and innovation in your web development endeavors This book serves as your gateway to this exciting world empowering you to create nextgeneration web applications capable of 3 handling any data challenge Frequently Asked Questions FAQs 1 Is NoSQL suitable for all applications While NoSQL offers tremendous benefits for certain types of applications its not a onesize fitsall solution Applications requiring complex joins extensive transactional integrity or ACID properties may be better suited to traditional relational databases 2 What makes Apache Cassandra stand out among NoSQL databases Apache Cassandra excels in its ability to handle massive data volumes providing high availability linear scalability and a flexible data model It is a reliable choice for demanding applications requiring high performance and fault tolerance 3 Can I integrate Apache Cassandra with my existing applications Yes Apache Cassandra can be integrated with various technologies and frameworks You can connect to it using popular languages like Java Python and Nodejs enabling integration with your existing systems 4 How does Apache Cassandra handle data consistency Cassandra offers different consistency levels allowing you to trade off performance for data consistency Choosing the right level depends on your applications specific needs and tolerance for eventual consistency 5 What are the future trends in NoSQL and Apache Cassandra The NoSQL landscape is constantly evolving Future trends include increased adoption of cloudbased NoSQL services advancements in data analytics capabilities and enhanced integration with other technologies Apache Cassandra continues to innovate with features like advanced security improved performance and expanded querying capabilities

Web Development with JavaUltimate Full-Stack Web Development with MERNWeb Development with DjangoPython Web Development with DjangoWeb Development with JavaScript and Ajax IlluminatedWeb Development with MongoDB and NodeJSC# Web Development with ASP.NETOpen Source Web Development with LAMPDjango: Web Development with PythonWeb Development with MongoDB and NodeModern Web Development with IBM WebSphereAI Strategies For Web DevelopmentASP.NET Web Development with Macromedia Dreamweaver MX 2004PHP Web Development with Macromedia Dreamweaver MX 2004Full Stack Web Development with RemixRust Web Development with RocketDeveloping Web Sites with Html, CSS and JavaScriptWeb Programming with HTML5, CSS, and JavaScriptResponsive Web DevelopmentPro SharePoint 2013 Branding and Responsive Web Development Tim Downey Nabendu Biswas Ben Shaw Jeff Forcier Richard Allen Mithun Satheesh Jose Mojica James Lee Samuel Dautzon Bruno Joseph D'mello Kyle Brown Anderson Soares Furtado Oliveira Kevin Marshall David Powers Andre Landgraf Karuna Murti EFREM G. MALLACH Dean Sudheer Kumar Reddy Gowrigari Oscar Medina

Web Development with Java Ultimate Full-Stack Web Development with MERN Web Development with Django Python Web Development with Django Web Development with JavaScript and Ajax Illuminated Web Development with MongoDB and NodeJS C# Web Development with ASP.NET Open Source Web Development with LAMP Django: Web Development with Python Web Development with MongoDB and Node Modern Web Development with IBM WebSphere AI Strategies For Web Development ASP.NET Web Development with Macromedia Dreamweaver MX 2004 PHP Web Development with Macromedia Dreamweaver MX 2004 Full Stack Web Development with Remix Rust Web Development with Rocket Developing Web Sites with Html, CSS and JavaScript Web Programming with HTML5, CSS, and JavaScript Responsive Web Development Pro SharePoint 2013 Branding and Responsive Web Development *Tim Downey Nabendu Biswas Ben Shaw Jeff Forcier Richard Allen Mithun Satheesh Jose Mojica James Lee Samuel Dautzon Bruno Joseph D'mello Kyle Brown Anderson Soares Furtado Oliveira Kevin Marshall David Powers Andre Landgraf Karuna Murti EFREM G. MALLACH Dean Sudheer Kumar Reddy Gowrigari Oscar Medina*

this book jumps to the good stuff from the outset allowing students to quickly start writing real applications it introduces readers to a 3 tiered model view controller architecture by

using hibernate jsps and java servlets this book uses existing powerful technologies such as jsp javabeans annotations jstl java 1.5 hibernate apache velocity and tomcat it also presents model 1 architectures using servlets and jsp as alternatives to perl and php written for novice developers this book provides an introductory course in web development for undergraduates as well as web developers

master development with mern stack for designing testing and deploying professional grade applications using mongodb express react and node.js key features step by step guidance on constructing an advanced mern project from scratch holistic understanding of frontend reactjs backend nodejs and expressjs and database management mongodb learn effective testing strategies and debugging techniques for both frontend and backend code ensuring the robustness and reliability of your mern stack applications description embark on a transformative and disruptive journey into mern stack development with ultimate full stack development with mern beginning with an in depth introduction to mern and rest apis the book advances through the complete project overview and the setup of a node.js application next it delves into the essentials of node.js mongodb connection models and crucial aspects of user authentication including jwt implementation and password hashing security takes center stage in next chapters as you explore middleware creation and route protection in the frontend section you'll construct a dynamic reactjs application with a focus on creating components pages and establishing redux for state management this book will guide you through setting up redux implementing registration and login functionalities and refining your application with a user friendly dashboard and task form the book concludes with chapters on frontend and backend testing ensuring the robustness of your application and also covers deployment strategies for both frontend and backend components providing a comprehensive guide to showcase your application to the world what will you learn develop a strong foundation in mern mongodb express.js react node.js stack technologies master the setup and configuration of node.js applications exploring essential concepts such as express.js for efficient server side development learn to connect and interact with mongodb and create models for effective data management implement secure user authentication protocols for controlled access to apps and enhanced security dive into reactjs frontend development setting up dynamic interfaces creating components and leveraging react router for seamless navigation implement state management using redux by creating slices setting up services and integrating registration and login functionalities learn testing strategies for frontend and backend using tools like jest and react testing library navigate the deployment process for both frontend and backend on netlify who is this book for this book is for developers with basic knowledge of javascript and reactjs who want to become full stack javascript developers and create fully functioning apps the backend knowledge of nodejs expressjs and mongodb can be acquired as you progress through this book table of contents 1 getting started with mern and setup 2 starting a nodejs app 3 mongodb connection and models 4 jwt authentication and hashing password 5 auth middleware and protecting routes 6 creating frontend and react router 7 redux setup with slice 8 login and logout functionalities 9 dashboard creation and task form 10 using thunk and completing app 11 frontend testing 12 backend testing 13 deployment index

create your own websites easily securely and quickly with django by tackling practical activities based on realistic case studies key features understand django functionality and the model view template mvt paradigm create and iteratively build a book review website adding features as you build your knowledge explore advanced concepts such as rest api implementation and third party module integration book description do you want to develop reliable and secure applications that stand out from the crowd without spending hours on boilerplate code you've made the right choice trusting the django framework and this book will tell you why often referred to as a batteries included web development framework django comes with all the core features needed to build a standalone application development with django will take you through all the essential concepts and help you explore its power to build real world applications using python throughout the book you'll get the grips with the major features of django by building a website called bookr a

repository for book reviews this end to end case study is split into a series of bitesize projects presented as exercises and activities allowing you to challenge yourself in an enjoyable and attainable way as you advance you ll acquire various practical skills including how to serve static files to add css javascript and images to your application how to implement forms to accept user input and how to manage sessions to ensure a reliable user experience you ll cover everyday tasks that are part of the development cycle of a real world web application by the end of this django book you ll have the skills and confidence to creatively develop and deploy your own projects what you will learn create a new application and add models to describe your data use views and templates to control behavior and appearance implement access control through authentication and permissions develop practical web forms to add features such as file uploads build a restful api and javascript code that communicates with it connect to a database such as postgresql who this book is for this book is for programmers looking to enhance their web development skills using the django framework to fully understand the concepts explained in this book basic knowledge of python programming as well as familiarity with javascript html and css is assumed

using the simple robust python based django framework you can build powerful solutions with remarkably few lines of code in python development with django three experienced django and python developers cover all the techniques tools and concepts you need to make the most of django 1 0 including all the major features of the new release the authors teach django through in depth explanations plus provide extensive sample code supported with images and line by line explanations you ll discover how django leverages python s development speed and flexibility to help you solve a wide spectrum of development problems and learn django best practices covered nowhere else you ll build your first django application in just minutes and deepen your real world skills through start to finish application projects including simple log blog online photo gallery simple content management system ajax powered live blogger online source code sharing syntax highlighting tool how to run your django applications on the google app engine this complete guide starts by introducing python django and development concepts then dives into the django framework providing a deep understanding of its major components models views templates and how they come together to form complete applications after a discussion of four independent working django applications coverage turns to advanced topics such as caching extending the template system syndication admin customization and testing valuable reference appendices cover using the command line installing and configuring django development tools exploring existing django applications the google app engine and how to get more involved with the django community introduction 1 part i getting started chapter 1 practical python for django 7 chapter 2 django for the impatient building a blog 57 chapter 3 starting out 77 part ii django in depth chapter 4 defining and using models 89 chapter 5 urls http mechanisms and views 117 chapter 6 templates and form processing 135 part iii django applications by example chapter 7 photo gallery 159 chapter 8 content management system 181 chapter 9 liveblog 205 chapter 10 pastebin 221 part iv advanced django techniques and features chapter 11 advanced django programming 235 chapter 12 advanced django deployment 261 part v appendices appendix a command line basics 285 appendix b installing and running django 295 appendix c tools for practical django development 313 appendix d finding evaluating and using django applications 321 appendix e django on the google app engine 325 appendix f getting involved in the django project 337 index 339 colophon 375

quot development with javascript and ajax illuminated provides readers with the cutting edge techniques needed for web development in 2 0 it is ideal for the undergraduate student delving into the world of web development or novice web developers looking to further their understanding of javascript and ajax this text illustrates how to create dynamic interactive web applications with ease and interesting real world case studies throughout the text offer students a glimpse of actual web development scenarios book jacket

build an interactive and full featured web application from scratch using node js and mongodb about this book configure your development environment to use node js and mongodb use node js to connect to a mongodb database and perform data manipulations a practical guide with clear instructions to design and develop a complete web application from start to finish who this book is for this book is designed for javascript developers of any skill level that want to get up and running using node js and mongodb to build full featured web applications a basic understanding of javascript and html is the only requirement for this book what you will learn configure your development environment to use node js and mongodb write and configure a web server using node js powered by the express js framework build dynamic html pages using the handlebars template engine persist application data using mongodb and mongoose odm test your code using automated testing tools such as the mocha framework deploy the development environment to the cloud using services such as heroku amazon services and microsoft azure explore single page application frameworks to take your web applications to the next level in detail node js and mongodb are quickly becoming one of the most popular tech stacks for the web powered by google s v8 engine node js caters to easily building fast scalable network applications while mongodb is the perfect fit as a scalable high performance open source nosql database solution using these two technologies together web applications can be built quickly and easily and deployed to the cloud with very little difficulty the book will begin by introducing you to the groundwork needed to set up the development environment here you will quickly run through the steps necessary to get the main application server up and running then you will see how to use node js to connect to a mongodb database and perform data manipulations from here on the book will take you through integration with third party tools for interaction with web apps it then moves on to show you how to use controllers and view models to generate reusable code that will reduce development time toward the end of the book we will cover tests to properly execute the code and some popular frameworks for developing web applications by the end of the book you will have a running web application developed with mongodb and node js along with it s popular frameworks style and approach an easy guide to node js and mongodb which will quickly introduce you to the relevant concepts by taking you through the different steps involved in building a full fledged web application

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the authors provide the most useful practical information on a broad range of open source technologies this practical guide presents a survey of lamp technologies and shows how these solutions can be implemented securely while improving reliability and cutting costs the book focuses on the most important core material necessary for the developer to hit the ground running and begin building applications right away

from an idea to a prototype a complete guide for web development with the django framework about this book explore the best practices to develop applications of a superior quality with django framework unravel the common problems of web development in django this course teaches you major django functions and will help you improve your skills by developing models forms views and templates experience the challenges of working on an end to end social network project who this book is for developers who want to use modern python based web frameworks like django to build powerful web applications the course is mostly self contained and introduces web development with python to a reader who is familiar with web development concepts and can help him become an expert in this trade it s intended for all levels of web developers both students and practitioners from novice to experts what you will learn use django models to store information in the database and generate queries to access a database across models quickly develop web pages

to create read update and delete data from the model using class based views generate very maintainable forms with django import data from local sources and external web services as well as exporting your data to third parties deep dive into various aspects of django from models and views to testing and deployment familiarize yourself with the various nuances of web development such as browser attacks and databases in detail data science is hot right now and the need for multitalented developers is greater than ever before a basic grounding in building apps with a framework as minimalistic powerful and easy to learn as django will be a useful skill to launch your career as an entrepreneur or web developer django is a web framework that was designed to strike a balance between rapid web development and high performance this course will take you on a journey to become an efficient web developer thoroughly understanding the key concepts of django framework this learning path is divided into three modules the course begins with basic concepts of the django framework the first module django essentials is like a practical guide filled with many real world examples to build highly effective django web application after getting familiar with core concepts of django it's time to practice your learning from the first module with the help of over 90 recipes available in this module in the second module development with django cookbook you'll learn varying complexities to help you create multilingual responsive and scalable websites with django by the end of this module you will have a good understanding of the new features added to django 1.8 and be an expert at web development processes the next step is to discover the latest best practices and idioms in this rapidly evolving django framework this is what you'll be learning in our third module django design patterns and best practices this module will teach you common design patterns to develop better django code by the end of the module you will be able to leverage the django framework to develop a fully functional web application with minimal effort style and approach this course includes all the resources that will help you jump into the web development field with django and learn how to make scalable and robust web applications the aim is to create a smooth learning path that will teach you how to get started with the powerful django framework and perform various web development techniques in depth through this comprehensive course you'll learn web development with django from scratch to finish

use the two popular web development stacks node.js and mongodb to build full featured web applications about this book learn the new ECMAScript along with node 8 and mongodb to make your application more effective get the up to date information required to launch your first application prototype using the latest versions of node.js and mongodb a practical guide with clear instructions to designing and developing a complete web application from start to finish using trending frameworks such as angular4 and hapi who this book is for the book is designed for javascript developers of any skill level who want to get up and running using node.js and mongodb to build full featured web applications a basic understanding of javascript and html is the only prerequisite for this book what you will learn work with node.js building blocks write and configure a web server using node.js powered by the express.js framework build dynamic html pages using the handlebars template engine persist application data using mongodb and mongoose odm test your code using automated testing tools such as the mocha framework automate test cases using gulp reduce your web development time by integrating third party tools for web interaction deploy a development environment to the cloud using services such as heroku amazon services and microsoft azure explore single page application frameworks to take your web applications to the next level in detail node.js builds fast scalable network applications while mongodb is the perfect fit as a high performance open source nosql database solution the combination of these two technologies offers high performance and scalability and helps in building fast scalable network applications together they provide the power for manage any form of data as well as speed of delivery this book will help you to get these two technologies working together to build web applications quickly and easily with effortless deployment to the cloud you will also learn about angular 4 which consumes pure json APIs from a hapi server the book begins by setting up your development environment running you through the steps necessary to get the main application server up and running then you will see how to use node.js to connect to a mongodb database and perform data manipulations from here on the book will take you through integration with third party tools to interact with web apps you will see how to use

controllers and view models to generate reusable code that will reduce development time toward the end the book supplies tests to properly execute your code and take your skills to the next level with the most popular frameworks for developing web applications by the end of the book you will have a running web application developed with mongodb node js and some of the most powerful and popular frameworks style and approach a practical guide with clear instructions to designing and developing a complete web application from start to finish

build tomorrow s best mobile applications with ibm websphere application server 8 5 and ibm worklight this guide presents a coherent strategy for building modern mobile web applications that are fast responsive interactive reusable maintainable extensible and a pleasure to use four ibm experts offer practical hands on coverage of front end development with ibm websphere application server 8 5 ibm worklight and today s most popular open source frameworks using well crafted examples the authors introduce best practices for mobilefirst development helping you create apps that work superbly on mobile devices and add features on conventional browsers throughout you ll learn better ways to deliver 2 0 apps with html javascript front ends restful services and persistent data proven by ibm and its customers the approach covered in this book leads to more successful mobile web applications and more effective development teams coverage includes developing for mobilefirst moving from graceful degradation to progressive enhancement quickly delivering lightweight jee apps with websphere application server s new liberty profile implementing an agile user centered page oriented approach to design constructing rest services with websphere liberty eclipse and jee annotations building better front end application architectures with frameworks and javascript designing and building complex transactional restful services that interface with databases and other data sources building ibm worklight hybrid apps with open source frameworks jquery mobile backbone require js and handlebars debugging cross platform multi language modern web apps promoting scalability security and connectivity into the wider enterprise the ibm press developerworks series pairs books with complementary resources on the developerworks website at ibm.com/developerworks/dwbooks

from fundamental to advanced strategies unlock useful insights for creating innovative user centric websites while navigating the evolving landscape of ai ethics and security key features explore ai s role in web development from shaping projects to architecting solutions master advanced ai strategies to build cutting edge applications anticipate future trends by exploring next gen development environments emerging interfaces and security considerations in ai web development purchase of the print or kindle book includes a free pdf ebook book description if you re a web developer looking to leverage the power of ai in your projects then this book is for you written by an ai and ml expert with more than 15 years of experience ai strategies for development takes you on a transformative journey through the dynamic intersection of ai and web development offering a hands on learning experience the first part of the book focuses on uncovering the profound impact of ai on web projects exploring fundamental concepts and navigating popular frameworks and tools as you progress you ll learn how to build smart ai applications with design intelligence personalized user journeys and coding assistants later you ll explore how to future proof your web development projects using advanced ai strategies and understand ai s impact on jobs toward the end you ll immerse yourself in ai augmented development crafting intelligent web applications and navigating the ethical landscape packed with insights into next gen development environments ai augmented practices emerging realities interfaces and security governance this web development book acts as your roadmap to staying ahead in the ai and web development domain what you will learn build ai powered web projects with optimized models personalize ux dynamically with ai nlp chatbots and recommendations explore ai coding assistants and other tools for advanced web development craft data driven personalized experiences using pattern recognition architect effective ai solutions while exploring the future of web development build secure and ethical ai applications following trism best practices explore cutting edge ai and web development trends who this book is for this book is for web developers

with experience in programming languages and an interest in keeping up with the latest trends in ai powered web development full stack front end and back end developers ui ux designers software engineers and web development enthusiasts will also find valuable information and practical guidelines for developing smarter websites with ai to get the most out of this book it is recommended that you have basic knowledge of programming languages such as html css and javascript as well as a familiarity with machine learning concepts

this concise no nonsense book teaches you how to develop accessible standards compliant asp net driven web sites with asp net and macromedia dreamweaver mx 2004 real world tutorials will help you achieve results quickly as you plunge into the text you ll learn the fundamental concepts of the net framework then quickly move on to the workings of asp net within the framework you will explore databases and sql in preparation for handling asp net databound controls next you ll explore the core role that xml and xml web services play in net finally you ll learn about dreamweaver s extensibility and coding efficiency features two of the most important aspects of developing with dreamweaver

php is the most popular open source server side scripting language with extensive support available in dreamweaver mx this concise no nonsense book teaches you how to develop accessible standards compliant php driven websites using php 4 and macromedia dreamweaver mx 2004 php development with macromedia dreamweaver mx 2004 presents real world tutorials so you can expect fast results as you progress through the book it also covers vital web development topics such as web standards principles and implementation and it includes a useful setup section to get you up and running quickly and easily

develop a web application while learning how to harness the capabilities of the web platform and advanced technologies for an exceptional user experience key features create a full stack web application using cutting edge technologies such as distributed edge deploy redis and multi region databases unlock the full potential of the web platform to enhance your react dev experience discover how remix assists in building a seamless user experience from start to finish purchase of the print or kindle book includes a free pdf ebook book descriptionwe re in an exciting era of web development marked by the rapid evolution of the javascript ecosystem remix offers the necessary abstractions to take advantage of the latest advancements in react and beyond with this remix book you can elevate your skills from react development to full stack web development unlocking the full potential of the latest technologies such as edge functions streaming and the full stack of the web platform this book guides you through remix s thoughtfully designed conventions levers and primitives to sharpen your web development skills in this book you ll develop a personal finance management application a dashboard that mimics both personal and enterprise use cases each chapter introduces new concepts such as routing data fetching mutations error handling and state management as well as advanced topics such as real time communication edge deploys and caching strategies to create a great user experience from end to end as you apply each concept to the finance dashboard you ll discover how you can supercharge your react app with remix the final section of this book covers migration strategies guiding you on how to transition an existing application to remix by the end of this book you ll have a comprehensive understanding of remix and the experience of building a full stack web app from start to finish what you will learn understand remix s philosophy and guiding principles enhance your web platform proficiency to make it applicable anywhere master data mutations routing error handling and state management with remix understand how to build web apps with accessibility and progressive enhancement in mind get acquainted with advanced topics such as caching strategies real time communication and developing for the edge understand state of the art technologies such as serverless functions edge computing and content delivery networks cdns study migration patterns to move an existing project to remix who this book is for this book is for react developers looking to adopt remix for their next project for

those considering migrating to remix this guide offers a comprehensive walkthrough of building a full stack web app to make the most of this book beginner level development experience with react and javascript is recommended while having basic knowledge of server side runtimes such as node js and experience with typescript can be beneficial they are not mandatory prerequisites

explore the world of rocket fueled web application development and the power of the rust programming language key features discover solutions to the common problems faced while creating web applications with rocket learn everything about rust from structs and crates to generics and debugging combine rust and rocket to create test and deploy a full featured web app book description looking for a fast powerful and intuitive framework to build web applications this rust book will help you kickstart your web development journey and take your rust programming skills to the next level as you uncover the power of rocket a fast flexible and fun framework powered by rust rust development with rocket wastes no time in getting you up to speed with what rust is and how to use it you ll discover what makes it so productive and reliable eventually mastering all of the concepts you need to play with the rocket framework while developing a wide set of web development skills throughout this book you ll be able to walk through a hands on project covering everything that goes into making advanced web applications and get to grips with the ins and outs of rocket development including error handling rust vectors and wrappers you ll also learn how to use synchronous and asynchronous programming to improve application performance and make processing user content easy by the end of the book you ll have answers to all your questions about creating a web application using the rust language and the rocket web framework what you will learn master the basics of rust such as its syntax packages and tools get to grips with rocket s tooling and ecosystem extend your rocket applications using rust and third party libraries create a full fledged web app with rocket that handles user content write pattern matching logic and handle rust object lifetimes use apis and async programming to make your apps secure and reliable test your rocket application and deploy it to production containerize and scale your applications for maximum efficiency who this book is for this web development book is for software engineers who want to learn how to use the rocket framework to build web applications although not mandatory basic knowledge of the rust programming language will help you understand the topics covered easily

covering the three underlying technologies of pages html css and javascript this book is a one stop guide to getting started in web development be it in a class or as a solo learner starting with no prerequisites beyond minimal exposure to programming this book guides readers in an accessible fashion through modern page layout methods to building a complete site this book develops an understanding of the structure of a page i e how its parts fit together to convey its content to site users how styles can make the content attractive and appealing and how short programs and scripts can add everything from simple interactivity to complex calculations to your pages with a wealth of in depth example review questions exercises and online sources and videos readers are encouraged to excel in all of these areas learning how to add animations timing designs that change in response to the characteristics of a display device and more building knowledge from the ground up this book appeals to those looking to learn web development from a range of backgrounds be it academic professional or personal

covers the three client side technologies html5 css and javascript in depth with no dependence on server side technologies one of the distinguishing features of this new text is its coverage of canvas one of the most important new features of html5 topics are presented in a logical comprehensive manner and code is presented in both short code fragments and complete web pages allowing readers to grasp concepts quickly and then apply the concepts in the context of a complete web page each chapter concludes with an optional

case study which builds upon itself to create a sophisticated website the case studies allow students to apply what they have learned and gives them a feel for the real world design process publisher description

bridging web and mobile for next gen user experiences key features comprehensive guide to web and mobile tech with html5 css3 pwas case studies and practical strategies for real world applications performance and security focus for efficient safe apps description the book explores how modern web and mobile technologies come together it focuses on using the same strategies to ensure smooth user experiences on different platforms it highlights how to build applications that share common code but also adapt to the specific needs of each platform this guide helps you build modern responsive websites that work perfectly on any device learn core responsive design principles with media queries and breakpoints create intuitive navigation for web and mobile use css3 flexbox and grid for mobile first designs optimize performance ensure quality with testing tools and follow security best practices explore progressive apps pwas voice search optimization offline functionality and content accessibility guidelines wcag for inclusive design by following this guide you will become a well rounded web and mobile developer equipped to create innovative and high performing applications that thrive in the ever changing digital world what you will learn responsive design principles and frameworks like bootstrap foundation etc css preprocessors such as sass or less for streamlined styling mobile optimization techniques like media queries flexbox and grid layouts progressive apps pwas for enhanced web experiences on mobile performance optimization tools for faster loading times offline data caching and synchronization technologies for mobile apps who this book is for this book is perfect for developers software engineers and tech enthusiasts looking for a thorough understanding of unified web and mobile application development table of contents 1 foundations of responsive design 2 navigation patterns in and mobile development 3 css3 for mobile first design 4 performance optimizations for mobile 5 testing and debugging on mobile devices 6 security and data privacy across platforms 7 exploring emerging technologies and trends 8 offline functionality and synchronization 9 accessibility creating inclusive digital experiences 10 conclusion and future trends

pro sharepoint 2013 branding and responsive development is the definitive reference on the technologies tools and techniques needed for building responsive websites and applications with sharepoint 2013 the book focuses on solutions that provide the best browser experience for the myriad of devices browsers and screen orientations and resolutions technology has changed considerably in the past few years microsoft has embraced the new generation of open standards represented by html5 and javascript and these changes are represented in a fundamental shift in how sharepoint 2013 supports web content management and publishing authors eric overfield oscar medina kanwal khipple and rita zhang join forces to dive into the new features and capabilities provided by sharepoint 2013 and combine them with the latest techniques in responsive web design and development to demonstrate how to build modern and progressive websites and applications pro sharepoint 2013 branding and responsive development covers the following technologies sharepoint 2013 server edition office 365 sharepoint online expression blend 2013 napa tools for office and sharepoint development visual studio 2012 html5 and css3 javascript jquery jquery ui modernizr and the bootstrap framework sharepoint 2013 client object model what you ll learnthrough the context of building a complete website on sharepoint 2013 from start to finish readers will learn how to combine sharepoint 2013 web content management features and capabilities with modern web design and development skills the key topics to be covered include design manager this new feature allows web designers and developers to build sharepoint branding templates using standard html and css and convert the templates to sharepoint master pages this opens up branding to a wider audience of designers who struggled with having to understand the complexity of sharepoint and asp net master pages client object model this feature is based on web service technologies for interacting with server side data from client side this

feature has been extended significantly to support the new sharepoint application model which heavily emphasizes client side development this book will provide full coverage of utilizing these updated web service technologies and how they can be used to build interactive websites device channels similar to the capabilities provided by html5 media queries the new channels capability allows sharepoint to detect client devices and browsers to load the appropriate master page to provide a unique browser experience variations and translation services sharepoint 2013 continues to improve features and capabilities for building multi lingual sites including new support for integration with professional translation service providers or automated translation web services term set navigation and seo improvements sharepoint 2013 now provides native support for search engine optimization requirements such as page meta fields as well as a completely new approach to site navigation and human friendly urls through the use of managed metadata navigation who this book is for pro sharepoint 2013 branding and responsive development is designed for web designers and developers who have existing knowledge of basic website design and development including html css and javascript this book builds upon that foundational knowledge to walk the reader through a complete project lifecycle for building a responsive website on sharepoint 2013 table of contents what s new in sharepoint 2013 content management responsive design and development with html5 gather requirements and wire frame for the site building a sharepoint html master page using device channels to customize clientux design site structure and navigation with managed metadata publish cross site content with catalogs design and develop page layouts and content types integrate search driven content build rich interactive forms upload documents and files integrate location based features integrating feeds and social media supporting multilingual sites appendix a setting up your design and development environment

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