

Liferay 61 Developer Guide

Iuliana Cosmina

Liferay 61 Developer Guide:

Liferay in Action Rich Sezov, 2011-09-19 Summary Liferay in Action is a comprehensive and authoritative guide to building portals on the Liferay 6 platform Fully supported and authorized by Liferay this book guides you smoothly from your first exposure to Liferay through the crucial day to day tasks of building and maintaining an enterprise portal that works well within your existing IT infrastructure About the Technology A portal is a website built around a collection of components that request display and share information Liferay Portal 6 an enterprise ready development platform makes it a snap to build portals that integrate with your existing backend systems and provide a rich interactive user experience Because Liferay uses standard Java and JavaScript along with built in SOAP and JSON support for web services developers can be productive immediately And since it savailable in both a free open source version as well as a fully supported commercial edition it san affordable solution for almost any business or organization About the Book Liferay in Action is the official guide to building Liferay portal applications using Java and JavaScript If you we never used Liferay before don t worry This book starts with the basics setting up your development environment and creating a working portal Then it builds on that foundation to help you discover social features tagging ratings and more You ll also explore the Portlet 2 0 API and learn to create custom themes and reusable templates Experienced developers will learn how to use new Liferay APIs to build social and collaborative sites use the message bus and workflow implement indexing and search and more This book was developed in close collaboration with Liferay engineers so it answers the right questions and answers them in depth No experience with Liferay or the Portlets API is required but basic knowledge of Java and web technology is assumed Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book What's Inside Complete coverage of Liferay Portal 6 Covers both the commercial and open source versions Custom portlet development using the Portlet 2 0 spec Liferay's social network API Add functionality with hooks and Ext plugins Table of Contents PART 1 WORKING WITH LIFERAY AND PORTLETS The Liferay difference Getting started with the Liferay development platform PART 2 WRITING APPLICATIONS ON LIFERAY S PLATFORM A data driven portlet made easy MVC the Liferay way Designing your site with themes and layout templates Making your site social Enabling user collaboration PART 3 CUSTOMIZING LIFERAY Hooks Extending Liferay effectively A tour of Liferay APIs *Liferay Administrator's Guide* Rich Sezov, 2008-04-01 The Liferay Portal Administrator's Guide is your complete guide to installing integrating configuring and maintaining a Liferay Portal server This comprehensive guide will show you how to bring up a Liferay Portal server and keep it running From installing a bundle to configuring a Liferay cluster every aspect of running Liferay Portal is covered

Liferay Administrator's Guide, 2nd Edition Richard Sezov, 2008 The Liferay Portal Administrator's Guide is your complete guide to installing integrating configuring and maintaining Liferay Portal This comprehensive guide will show you how to install Liferay Portal configure it for your use and maintain your Liferay powered site on a day to day basis From installing a

bundle to configuring a Liferay cluster every aspect of running Liferay Portal is covered This newly updated guide is your roadmap to a successful implementation of Liferay Portal Now covering Liferay Portal 5 1 and below this book contains the information you need to keep your portal environment running smoothly **Liferay Portal Performance Best Practices** Samir Bhatt, 2013-06-10 A step by step tutorial on implementing Liferay based portals to learn performance best practices The book is good for Liferay portal developers and architects who want to learn performance best practices for implementing Liferay based solutions It is assumed that you have a working knowledge of the Liferay portal **Pivotal Certified Spring** Web Application Developer Exam Iuliana Cosmina, 2015-12-11 Prepare for the Pivotal Certified Spring Web Application Developer exam and learn about Spring MVC DispatcherServlet configuration Spring MVC programming model essentials Spring MVC views and form processing Spring Web Flow essentials and Spring Web Flow actions and configuration The Pivotal Certified Spring Web Application Developer Exam A Study Guide is the ideal preparation for the exam and after reading and using it you ll be able to pass and become a certified Spring Web Developer When you become a Pivotal Certified Spring Web Application Developer you ll receive one of the most valuable credentials available in enterprise Java Achieving this certification demonstrates your ability to apply Spring s web projects to develop real world Java web applications and validates your familiarity with Spring Web Mastering Apache Solr 7.x Sandeep Nair, Chintan Mehta, Dharmesh Vasoya, 2018-02-22 Accelerate your enterprise search engine and bring relevancy in your search analytics Key Features A practical guide in building expertise with Indexing Faceting Clustering and Pagination Master the management and administration of Enterprise Search Applications and services seamlessly Handle multiple data inputs such as JSON xml pdf doc xls ppt csv and much more Book Description Apache Solr is the only standalone enterprise search server with a REST like application interface providing highly scalable distributed search and index replication for many of the world's largest internet sites To begin with you would be introduced to how you perform full text search multiple filter search perform dynamic clustering and so on helping you to brush up the basics of Apache Solr You will also explore the new features and advanced options released in Apache Solr 7 x which will get you numerous performance aspects and making data investigation simpler easier and powerful You will learn to build complex queries extensive filters and how are they compiled in your system to bring relevance in your search tools You will learn to carry out Solr scoring elements affecting the document score and how you can optimize or tune the score for the application at hand You will learn to extract features of documents writing complex queries in re ranking the documents You will also learn advanced options helping you to know what content is indexed and how the extracted content is indexed Throughout the book you would go through complex problems with solutions along with varied approaches to tackle your business needs By the end of this book you will gain advanced proficiency to build out of box smart search solutions for your enterprise demands What you will learn Design schema using schema API to access data in the database Advance querying and fine tuning techniques for better

performance Get to grips with indexing using Client API Set up a fault tolerant and highly available server with newer distributed capabilities SolrCloud Explore Apache Tika to upload data with Solr Cell Understand different data operations that can be done while indexing Master advanced querying through Velocity Search UI faceting and Query Re ranking pagination and spatial search Learn to use JavaScript Python SolrJ and Ruby for interacting with Solr Who this book is for The book would rightly appeal to developers software engineers data engineers and database architects who are building or seeking to build enterprise wide effective search engines for business intelligence Prior experience of Apache Solr or Java programming is must to take the best of this book Science Gateways for Distributed Computing Infrastructures Péter Kacsuk, 2014-10-28 The book describes the science gateway building technology developed in the SCI BUS European project and its adoption and customization method by which user communities such as biologists chemists and astrophysicists can build customized domain specific science gateways Many aspects of the core technology are explained in detail including its workflow capability job submission mechanism to various grids and clouds and its data transfer mechanisms among several distributed infrastructures The book will be useful for scientific researchers and IT professionals engaged in the development Java 9 Dependency Injection Nilang Patel, Krunal Patel, 2018-04-26 Create clean code with of science gateways Dependency Injection principles Key Features Use DI to make your code loosely coupled to manage and test your applications easily on Spring 5 and Google Guice Learn the best practices and methodologies to implement DI Write more maintainable Java code by decoupling your objects from their implementations Book Description Dependency Injection DI is a design pattern that allows us to remove the hard coded dependencies and make our application loosely coupled extendable and maintainable We can implement DI to move the dependency resolution from compile time to runtime This book will be your one stop guide to write loosely coupled code using the latest features of Java 9 with frameworks such as Spring 5 and Google Guice We begin by explaining what DI is and teaching you about IoC containers Then you ll learn about object compositions and their role in DI You ll find out how to build a modular application and learn how to use DI to focus your efforts on the business logic unique to your application and let the framework handle the infrastructure work to put it all together Moving on you ll gain knowledge of Java 9 s new features and modular framework and how DI works in Java 9 Next we ll explore Spring and Guice the popular frameworks for DI You ll see how to define injection keys and configure them at the framework specific level After that you ll find out about the different types of scopes available in both popular frameworks You ll see how to manage dependency of cross cutting concerns while writing applications through aspect oriented programming Towards the end you ll learn to integrate any third party library in your DI enabled application and explore common pitfalls and recommendations to build a solid application with the help of best practices patterns and anti patterns in DI What you will learn Understand the benefits of DI and fo from a tightly coupled design to a cleaner design organized around dependencies See Java 9 s new features and modular framework Set up Guice and Spring in an application

so that it can be used for DI Write integration tests for DI applications Use scopes to handle complex application scenarios Integrate any third party library in your DI enabled application Implement Aspect Oriented Programming to handle common cross cutting concerns such as logging authentication and transactions Understand IoC patterns and anti-patterns in DI Who this book is for This book is for Java developers who would like to implement DI in their application Prior knowledge of the Spring and Guice frameworks and Java programming is assumed LabVIEW Ian Fairweather, Anne Brumfield, 2017-07-13 LabVIEW TM has become one of the preeminent platforms for the development of data acquisition and data analysis programs LabVIEW TM A Developer's Guide to Real World Integration explains how to integrate LabVIEW into real life applications Written by experienced LabVIEW developers and engineers the book describes how LabVIEW has been pivotal in solving real world challenges Each chapter is self contained and demonstrates the power and simplicity of LabVIEW in various applications from image processing to solar tracking systems Many of the chapters explore how exciting new technologies can be implemented in LabVIEW to enable novel solutions to new or existing problems. The text also presents novel tricks and tips for integrating LabVIEW with third party hardware and software Ideal for LabVIEW users who develop stand alone applications this down to earth guide shows how LabVIEW provides solutions to a variety of application problems It includes projects and virtual instrumentation for most of the programs and utilities described Many of the authors own software contributions are available on the accompanying CD ROM

Thank you very much for downloading **Liferay 61 Developer Guide**. Most likely you have knowledge that, people have look numerous time for their favorite books next this Liferay 61 Developer Guide, but stop going on in harmful downloads.

Rather than enjoying a good ebook subsequently a mug of coffee in the afternoon, then again they juggled past some harmful virus inside their computer. **Liferay 61 Developer Guide** is welcoming in our digital library an online entry to it is set as public in view of that you can download it instantly. Our digital library saves in multipart countries, allowing you to acquire the most less latency times to download any of our books afterward this one. Merely said, the Liferay 61 Developer Guide is universally compatible subsequently any devices to read.

 $\frac{http://www.armchairempire.com/book/Resources/Documents/handbook\%20of\%20fpga\%20design\%20security\%20handbook\%20of\%20fpga\%20design\%20security.pdf}{}$

Table of Contents Liferay 61 Developer Guide

- 1. Understanding the eBook Liferay 61 Developer Guide
 - The Rise of Digital Reading Liferay 61 Developer Guide
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Liferay 61 Developer Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Liferay 61 Developer Guide
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Liferay 61 Developer Guide
 - Personalized Recommendations
 - Liferay 61 Developer Guide User Reviews and Ratings

- Liferay 61 Developer Guide and Bestseller Lists
- 5. Accessing Liferay 61 Developer Guide Free and Paid eBooks
 - Liferay 61 Developer Guide Public Domain eBooks
 - Liferay 61 Developer Guide eBook Subscription Services
 - Liferay 61 Developer Guide Budget-Friendly Options
- 6. Navigating Liferay 61 Developer Guide eBook Formats
 - o ePub, PDF, MOBI, and More
 - Liferay 61 Developer Guide Compatibility with Devices
 - Liferay 61 Developer Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Liferay 61 Developer Guide
 - Highlighting and Note-Taking Liferay 61 Developer Guide
 - Interactive Elements Liferay 61 Developer Guide
- 8. Staying Engaged with Liferay 61 Developer Guide
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Liferay 61 Developer Guide
- 9. Balancing eBooks and Physical Books Liferay 61 Developer Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Liferay 61 Developer Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Liferay 61 Developer Guide
 - Setting Reading Goals Liferay 61 Developer Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Liferay 61 Developer Guide
 - Fact-Checking eBook Content of Liferay 61 Developer Guide
 - Distinguishing Credible Sources

- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Liferay 61 Developer Guide Introduction

Free PDF Books and Manuals for Download: Unlocking Knowledge at Your Fingertips In todays fast-paced digital age, obtaining valuable knowledge has become easier than ever. Thanks to the internet, a vast array of books and manuals are now available for free download in PDF format. Whether you are a student, professional, or simply an avid reader, this treasure trove of downloadable resources offers a wealth of information, conveniently accessible anytime, anywhere. The advent of online libraries and platforms dedicated to sharing knowledge has revolutionized the way we consume information. No longer confined to physical libraries or bookstores, readers can now access an extensive collection of digital books and manuals with just a few clicks. These resources, available in PDF, Microsoft Word, and PowerPoint formats, cater to a wide range of interests, including literature, technology, science, history, and much more. One notable platform where you can explore and download free Liferay 61 Developer Guide PDF books and manuals is the internets largest free library. Hosted online, this catalog compiles a vast assortment of documents, making it a veritable goldmine of knowledge. With its easy-touse website interface and customizable PDF generator, this platform offers a user-friendly experience, allowing individuals to effortlessly navigate and access the information they seek. The availability of free PDF books and manuals on this platform demonstrates its commitment to democratizing education and empowering individuals with the tools needed to succeed in their chosen fields. It allows anyone, regardless of their background or financial limitations, to expand their horizons and gain insights from experts in various disciplines. One of the most significant advantages of downloading PDF books and manuals lies in their portability. Unlike physical copies, digital books can be stored and carried on a single device, such as a tablet or smartphone, saving valuable space and weight. This convenience makes it possible for readers to have their entire library at their fingertips, whether they are commuting, traveling, or simply enjoying a lazy afternoon at home. Additionally, digital files are easily searchable, enabling readers to locate specific information within seconds. With a few keystrokes, users can search for keywords, topics, or phrases, making research and finding relevant information a breeze. This efficiency saves time and effort, streamlining the learning process and allowing individuals to focus on extracting the information they need. Furthermore, the availability of free PDF books and manuals fosters a culture of continuous learning. By removing

financial barriers, more people can access educational resources and pursue lifelong learning, contributing to personal growth and professional development. This democratization of knowledge promotes intellectual curiosity and empowers individuals to become lifelong learners, promoting progress and innovation in various fields. It is worth noting that while accessing free Liferay 61 Developer Guide PDF books and manuals is convenient and cost-effective, it is vital to respect copyright laws and intellectual property rights. Platforms offering free downloads often operate within legal boundaries, ensuring that the materials they provide are either in the public domain or authorized for distribution. By adhering to copyright laws, users can enjoy the benefits of free access to knowledge while supporting the authors and publishers who make these resources available. In conclusion, the availability of Liferay 61 Developer Guide free PDF books and manuals for download has revolutionized the way we access and consume knowledge. With just a few clicks, individuals can explore a vast collection of resources across different disciplines, all free of charge. This accessibility empowers individuals to become lifelong learners, contributing to personal growth, professional development, and the advancement of society as a whole. So why not unlock a world of knowledge today? Start exploring the vast sea of free PDF books and manuals waiting to be discovered right at your fingertips.

FAQs About Liferay 61 Developer Guide Books

What is a Liferay 61 Developer Guide PDF? A PDF (Portable Document Format) is a file format developed by Adobe that preserves the layout and formatting of a document, regardless of the software, hardware, or operating system used to view or print it. How do I create a Liferay 61 Developer Guide PDF? There are several ways to create a PDF: Use software like Adobe Acrobat, Microsoft Word, or Google Docs, which often have built-in PDF creation tools. Print to PDF: Many applications and operating systems have a "Print to PDF" option that allows you to save a document as a PDF file instead of printing it on paper. Online converters: There are various online tools that can convert different file types to PDF. How do I edit a Liferay 61 Developer Guide PDF? Editing a PDF can be done with software like Adobe Acrobat, which allows direct editing of text, images, and other elements within the PDF. Some free tools, like PDFescape or Smallpdf, also offer basic editing capabilities. How do I convert a Liferay 61 Developer Guide PDF to another file format? There are multiple ways to convert a PDF to another format: Use online converters like Smallpdf, Zamzar, or Adobe Acrobats export feature to convert PDFs to formats like Word, Excel, JPEG, etc. Software like Adobe Acrobat, Microsoft Word, or other PDF editors may have options to export or save PDFs in different formats. How do I password-protect a Liferay 61 Developer Guide PDF? Most PDF editing software allows you to add password protection. In Adobe Acrobat, for instance, you can go to "File" -> "Properties" -> "Security" to set a password to restrict access or editing capabilities. Are there any free alternatives to Adobe

Acrobat for working with PDFs? Yes, there are many free alternatives for working with PDFs, such as: LibreOffice: Offers PDF editing features. PDFsam: Allows splitting, merging, and editing PDFs. Foxit Reader: Provides basic PDF viewing and editing capabilities. How do I compress a PDF file? You can use online tools like Smallpdf, ILovePDF, or desktop software like Adobe Acrobat to compress PDF files without significant quality loss. Compression reduces the file size, making it easier to share and download. Can I fill out forms in a PDF file? Yes, most PDF viewers/editors like Adobe Acrobat, Preview (on Mac), or various online tools allow you to fill out forms in PDF files by selecting text fields and entering information. Are there any restrictions when working with PDFs? Some PDFs might have restrictions set by their creator, such as password protection, editing restrictions, or print restrictions. Breaking these restrictions might require specific software or tools, which may or may not be legal depending on the circumstances and local laws.

Find Liferay 61 Developer Guide:

handbook of fpga design security handbook of fpga design security

handbook of obesity two volume set

handbook of anger management and domestic violence offender treatment

handbook for the chemical analysis of plastic and polymer additives halb zwlf hinterhofgeschichten

handbook of optical engineering optical science and engineering

handbook of antenna design

halliday and resnick 7th edition solution manual

handbook of dough fermentations food science and technology

ham radio license manuals

handbook of nonwoven filter media second edition

handbook of anticancer pharmacokinetics and pharmacodynamics cancer drug discovery and development

handboek curriculum modellen theorien technologien

halo wars instruction manual

handbook of assessment in clinical gerontology wiley series on adulthood and aging

Liferay 61 Developer Guide:

Ayurveda & Aromatherapy: The Earth... by Dr. Light Miller This book is a collection of twenty-five years of healing

experience using aromatherapy and Ayurveda. The book presents both sciences in a format for Westerners ... Ayurveda and aromatherapy: The earth... by Dr. Light Miller This book is a collection of healing experience using aromatherapy and Ayurveda. The book presents both sciences in format for Westerns. Ayurveda & Aromatherapy: The Earth Essential Guide to ... Ayurveda & Aromatherapy: The Earth Essential Guide to Ancient Wisdom and Modern Healing - Softcover; Ayurveda & Aromatherapy Format: Paperback. Miller, Bryan. Ayurveda & Aromatherapy: The Earth Essential Guide ... This book integrates the ancient healing science of Ayurveda with the modern development of Aromatherapy. The authors have long term experience in clinical ... Ayurveda & Aromatherapy: The Earth Essential Guide ... Ayurveda & Aromatherapy This book integrates the ancient healing science of Ayurveda with the modern development of Aromatherapy. The authors have long term ... Ayurveda Aromatherapy. The Earth Essential Guide to ... Dr. Light Miller & Dr. Bryan Miller ... Synopsis: This book is a collection of twenty-five years of healing experience using aromatherapy and Ayurveda. "About ... Ayurveda & Aromatherapy (The EARTH Essentials Guide ... Helps you diagnose your metabolic type and apply healing modalities. This book title, Ayurveda & Aromatherapy (The EARTH Essentials Guide to Ancient Wisdom ... Ayurveda & Aromatherapy: The Earth Essential Guide to ... Ayurveda & Aromatherapy: The Earth Essential Guide to Ancient Wisdom and Modern; Quantity. 1 available; Item Number, 186148998519; ISBN, 9780914955207, Ayurveda and aromatherapy; The earth Essential Guide to ... Theis book is a collection of healing experience using aromatherapy and Ayurveda. The book presents both sciences in a format for westerners, It includes a self ... Ayurveda and Aromatherapy: The Earth Essential Guide to ... This book is a collection of twenty-five years of healing experience using aromatherapy and Ayurveda. It includes a self-diagnosis questionnaire to ... Benson H Tongue Solutions Engineering Mechanics: Dynamics ... Solutions Manual · Study 101 · Textbook Rental · Used Textbooks · Digital Access … Pin on Study Guides for textbooks Solutions Manual for Engineering Mechanics Dynamics 2nd Edition by Tongue ... a book with the title, 'solution manual for business and financial purposess'. Solution manual for engineering mechanics dynamics 13th ... Mar 20, 2018 — Solution manual for engineering mechanics dynamics 13th edition by hibbeler ... ENGINEERING MECHANICS DYNAMICS 1ST EDITION BY TONGUE SOLUTIONS ... Full File at Https://testbanku - eu/Solution-Manual-for- ... Full file at https://testbanku.eu/Solution-Manual-for-Engineering-Mechanics-Dynamics-2nd-Edition-by-Tongue. 2.5. RELATIVE MOTION AND CONSTRAINTS CHAPTER 2 ... solution manual Dynamics: Analysis and Design of Systems in ... solution manual

AND CONSTRAINTS CHAPTER 2 ... solution manual Dynamics:Analysis and Design of Systems in ... solution manual Dynamics:Analysis and Design of Systems in ... solution manual Dynamics:Analysis and Design of Systems in Motion Tongue 2nd Edition. \$38.00. 1. Add to Cart \$38.00. Description. Benson H Tongue | Get Textbooks Solutions Manual by Benson H. Tongue Paperback, 288 Pages, Published 1997 by ... Engineering Mechanics SI 2e, Engineering Mechanics: Statics SI 7e, Mechanics ... Engineering Mechanics: Dynamics - 2nd Edition Our resource for Engineering Mechanics: Dynamics includes answers to chapter exercises, as well as detailed information to walk you through the process step by ... Engineering Mechanics: Dynamics- Solutions Manual, Vol. ... Engineering Mechanics:

Dynamics- Solutions Manual, Vol. 2, Chapters 17-21 [unknown author] on Amazon.com. *FREE* shipping on qualifying offers. Engineering Mechanics: Dynamics: Tongue, Benson H. Engineering Mechanics: Dynamics, 2nd Edition provides engineers with a conceptual understanding of how dynamics is applied in the field. An Introduction To Statistical Methods And Data Analysis ... Access An Introduction to Statistical Methods and Data Analysis 7th Edition solutions now. Our solutions are written by Chegg experts so you can be assured ... An Introduction To Statistical Methods And Data Analysis ... Get instant access to our step-by-step An Introduction To Statistical Methods And Data Analysis solutions manual. Our solution manuals are written by Chegg ... An Introduction to Statistical Methods and Data Analysis Textbook solutions for An Introduction to Statistical Methods and Data Analysis... 7th Edition R. Lyman Ott and others in this series. Student Solutions Manual for Introduction to Statistical ... Amazon.com: Student Solutions Manual for Introduction to Statistical Methods and Data Analysis: 9780534371234: Ott, R. Lyman, Longnecker, Micheal T.: Books. Student Solutions Manual for Ott/Longnecker's ... -Cengage Student Solutions Manual for Ott/Longnecker's An Introduction to Statistical Methods and Data Analysis, 7th | 7th Edition. Introduction To Statistical Methods And Data Analysis 6th ... Apr 2, 2019 — Introduction To Statistical Methods And Data Analysis 6th Edition Ott Solutions Manual by Rama - Issuu. An Introduction to Statistical Methods and Data Analysis Find step-by-step solutions and answers to An Introduction to Statistical Methods and Data Analysis - 9780495017585, as well as thousands of textbooks so ... Student solutions manual for Ott/Longnecker's An ... Student solutions manual for Ott/Longnecker's An introduction to statistical methods and data analysis. Show more; Authors: Michael Longnecker, Lyman Ott. Student Solutions Manual for Ott/Longnecker's An ... Student Solutions Manual for Ott/Longnecker's An Introduction to Statistical Methods and Data Analysis, 7th | 7th Edition. Selection of Appropriate Statistical Methods for Data Analysis by P Mishra · 2019 · Cited by 162 — Two main statistical methods are used in data analysis: descriptive statistics, which summarizes data using indexes such as mean and median and another is ...