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What is jBPM?

jBPM is a flexible Business Process Management (BPM) Suite. It makes the bridge between business analysts and developers. Traditional BPM engines have a focus that is limited to non-technical people only. jBPM has a dual focus: it offers process management features in a way that both business users and developers like it.

What does jBPM do?

A business process allows you to model your business goals by describing the steps that need to be executed to achieve that goal and the order, using a flow chart. This greatly improves the visibility and agility of your business logic, results in higher-level and domain-specific representations that can be understood by business users and is easier to monitor.

The core of jBPM is a light-weight, extensible workflow engine written in pure Java that allows you to execute business processes using the latest BPMN 2.0 specification. It can run in any Java environment, embedded in your application or as a service.

On top of the core engine, a lot of features and tools are offered to support business processes throughout their entire life cycle:

- Eclipse-based and web-based editor to support the graphical creation of your business processes (drag & drop).
- Pluggable persistence and transactions based on JPA / JTA.
- Pluggable human task service based on WS-HumanTask for including tasks that need to be performed by human actors.
- Management console supporting process instance management, task lists and task form management, and reporting.
- Optional process repository to deploy your process (and other related knowledge).
- History logging (for querying / monitoring / analysis).
- Integration with Seam, Spring, OSGi, etc.

BPM makes the bridge between business analysts, developers and end users, by offering process management features and tools in a way that both business users and developers like it. Domain-specific nodes can be plugged into the palette, making the processes more easily understood by business users.

jBPM supports adaptive and dynamic processes that require flexibility to model complex, real-life situations that cannot easily be described using a rigid process. We bring control back to the end users by allowing them to control which parts of the process should be executed, to dynamically deviate from the process, etc.

jBPM is also not just an isolated process engine. Complex business logic can be modeled as a combination of business processes with business rules and complex event processing. jBPM can be combined with the Drools project to support one unified environment that integrates these paradigms where you model your business logic as a combination of processes, rules and events.

Important News

jBPM 6.3 release
Mon 28 September 2015 - A lot of powerful new features were added in the jBPM 6.3 release.

jBPM 6.2.0.Final released
Fri 6 March 2015 - jBPM 6.2 bits have been released ! Find out everything you need to know, including the new features, in the announcement.

jBPM 6.1.0.Final available
Wed 10 September 2014 - jBPM 6.1 is now available ! Check out the new features, documentation and how to get started.

Deep Dive into jBPM6
Fri 9 May 2014 - Presentation and demo on jBPM6 from Red Hat Summit 2014 now available on demand.

Red Hat announces JBoss BPM Suite (supporting jBPM)
Thu 13 March 2014 - As a result, you can now get official support for developing and deploying your jBPMS applications.

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Web Information Systems and Technologies Massimo Marchiori,Francisco José Domínguez Mayo,Joaquim Filipe,2023-08-28 This book constitutes revised selected papers from the 18th International Conference on Web Information Systems and Technologies WEBIST 2022 which took place in Valletta Malta in October 2022 The 13 full revised papers presented in this book were carefully reviewed and selected from a total of 62 submissions The selected papers contribute to the understanding of relevant current research trends in Web information systems and technologies including deep learning knowledge representation and reasoning recommender systems internet of things Web intelligence and big data **Activiti in Action** Tijs Rademakers,2012-07-11 Summary Activiti in Action is a comprehensive tutorial designed to introduce developers to the world of business process modeling using Activiti Before diving into the nuts and bolts of Activiti this book presents a solid introduction to BPMN 2 0 from a developer s perspective About the Technology Activiti streamlines the implemention of your business processes with Activiti Designer you draw your business process using BPMN Its XML output goes to the Activiti Engine which then creates the web forms and performs the communications that implement your process It s as simple as that Activiti is lightweight integrates seamlessly with standard frameworks and includes easy to use design and management tools About the Book Activiti in Action introduces developers to business process modeling with Activiti You ll start by exploring BPMN 2 0 from a developer s perspective Then you ll quickly move to examples that show you how to implement processes with Activiti You ll dive into key areas of process modeling including workflow ESB usage process monitoring event handling business rule engines and document management integration Written for business application developers Familiarity with Java and BPMN is helpful but not required 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 Activiti from the ground up Dozens of real world examples Integrate with standard Java tooling Table of Contents PART 1 INTRODUCING BPMN 2 0 AND ACTIVITI Introducing the Activiti framework BPMN 2 0 what s in it for developers Introducing the Activiti tool stack Working with the Activiti process engine PART 2 IMPLEMENTING BPMN 2 0 PROCESSES WITH ACTIVITI Implementing a BPMN 2 0 process Applying advanced BPMN 2 0 and extensions Dealing with error handling Deploying and configuring the Activiti Engine Exploring additional Activiti modules PART 3 ENHANCING BPMN 2 0 PROCESSES Implementing advanced workflow Integrating services with a BPMN 2 0 process Ruling the business rule engine Document management using Alfresco Business monitoring and Activiti PART 4 MANAGING BPMN 2 0 PROCESSES Managing the Activiti Engine **Modern Business Process Automation** Arthur H. M. ter Hofstede,Wil M. P. van der Aalst,Michael Adams,Nick Russell,2009-11-18 The eld of Business Process Management BPM is marred by a seemingly e less sequence of proposed industry standards Contrary to other elds e g civil or electronic engineering these standards are not the result of a widely supported consolidationofwell understoodandwell establishedconceptsandpractices Inthe BPM domain it is frequently

the case that BPM vendors opportunistically become involved in the creation of proposed standards to exert or maintain their in uence and interests in the eld Despite the initial fervor associated with such standardi tion activities it is no less frequent that vendors either choose to drop their support for standards that they earlier championed on an opportunistic basis or elect only to partially support them in their commercial offerings Moreover the results of the standardization processes themselves are a concern BPM standards tend to deal with complex concepts yet they are never properly de ned and all too often not informed by established research The result is a plethoraof languagesand tools with no consensuson conceptsand their implem tation They also fail to provide clear direction in the way in which BPM standards should evolve One can also observe a dichotomy between the business side of BPM and its technical side While it is clear that the application of BPM will fail if not placed in a proper business context it is equally clear that its application will go nowhere if it remains merely a motivational exercise with schemas of business processes hanging on the wall gathering dust **Microservices Design Patterns with Java** Sergey Seroukhov,2024-05-24 Java microservices The ultimate pattern guide KEY FEATURES Covers 70 Java microservices patterns in detail Practical code examples for immediate application Strategies from architecture to deployment explained DESCRIPTION Microservices a popular software architecture style breaks down applications into small independent services built with Java a versatile and widely used programming language This book serves as a roadmap for mastering design patterns that solve common problems encountered during microservices development in Java Start with microservices setup for team success Discover various architectural styles and communication approaches for seamless service interaction Learn effective data management within microservices Acquire skills for handling unforeseen scenarios in transactions and crafting secure APIs for user service access Lastly grasp crucial monitoring testing and deployment practices to identify and address issues ensuring smooth production deployment Microservices Design Patterns with Java positions itself as an indispensable tool in the arsenal of today s software professionals It not only aids in navigating the complexities of microservices architecture but also enhances the reader s ability to deliver robust high quality software solutions efficiently WHAT YOU WILL LEARN Architect scalable resilient microservices using Java based design patterns Implement efficient communication and data management strategies within microservices Design secure robust external APIs for microservices integration and interaction Monitor and maintain microservices with advanced logging tracing and health checks Deploy microservices with Docker Kubernetes and serverless platforms effectively Automate CI CD pipelines for microservices for streamlined development and deployment WHO THIS BOOK IS FOR This book is for seasoned microservices developers seeking to expand their repertoire of design patterns and practices as well as for newcomers looking for comprehensive guidance on patterns and practices throughout the entire development lifecycle It is tailored for architects developers team leads and DevOps engineers TABLE OF CONTENTS 1 Defining Product Vision and Organization Structure 2 Architecting Microservices Systems 3 Organizing and Documenting Code 4 Configuring Microservices 5

Implementing Communication 6 Working with Data 7 Handling Complex Business Transactions 8 Exposing External APIs 9 Monitoring Microservices 10 Packaging Microservices 11 Testing Microservices 12 Scripting Environments 13 Automating CI CD Pipelines 14 Assembling and Deploying Products   *Business Process Management Workshops* Ernest Teniente,Matthias Weidlich,2018-01-16 This book constitutes revised papers from the eleven International Workshops held at the 15th International Conference on Business Process Management BPM 2017 in Barcelona Spain in September 2017 BPAI 2017 1st International Workshop on Business Process Innovation with Artificial Intelligence BPI 2017 13th International Workshop on Business Process Intelligence BP Meet IoT 2017 1st International Workshop on Ubiquitous Business Processes Meeting Internet of Things BPMS2 2017 10th Workshop on Social and Human Aspects of Business Process Management CBPM 2017 1st International Workshop on Cognitive Business Process Management CCABPM 2017 1st International Workshop on Cross cutting Aspects of Business Process Modeling DeHMiMoP 2017 5th International Workshop on Declarative Decision Hybrid Mining QD PA 2017 1st International Workshop on Quality Data for Process Analytics REBPM 2017 3rd International Workshop on Interrelations between Requirements Engineering and Business Process Management SPBP 2017 1st Workshop on Security and Privacy enhanced Business Process Management TAProViz PQ IWPE 2017 Joint International BPM 2017 Workshops on Theory and Application of Visualizations and Human centric Aspects in Processes TAProViz 17 Process Querying PQ 17 and Process Engineering IWPE17 The 44 full and 11 short papers presented in this volume were carefully reviewed and selected from 99 submissions   **Emerging Technologies for Connected Internet of Vehicles and Intelligent Transportation System Networks** Mohamed Elhoseny,Aboul Ella Hassanien,2019-07-17 This book discusses vehicular communication systems IoT intelligent transportation systems and the Internet of Vehicles and also introduces destination marketing in a structured manner It is primarily intended for research students interested in emerging technologies for connected Internet of Vehicles and intelligent transportation system networks academics in higher education institutions including universities and vocational colleges IT professionals policy makers and legislators The book can also be used as a reference resource for both undergraduate and graduate studies Written in plain and simple language it describes new concepts so that they are accessible to readers without prior knowledge of the field   *Delivering the Customer-centric Organization* Layna Fischer,2012-01-01 Customer centric organizations are concerned about shrinking volumes of business stiffer competition and ever more demanding consumer expectations which have increased pressure on the bottom line The ability to successfully manage the customer value chain across the life cycle of a customer is the key to the survival of any company today Business processes must react to changing and diverse customer needs and interactions to ensure efficient and effective outcomes This important book looks at the shifting nature of consumers and the workplace and how BPM and associated emergent technologies will play a part in shaping the companies of the future BPM s promises are real but the path to success is littered with pitfalls and shortcuts to failure Best practices can help you avoid them If you are

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This book assumes that you know the Java language well and are familiar with some widely used frameworks such as Hibernate You should also know the basics of relational databases and Maven based applications *Effective and Efficient Process Engine Evaluation* Simon Harrer,2017-10-17 **LexisNexis Corporate Affiliations** ,2006 Business Process Management with Jboss Jbpm Matt Cumberlidge,2007-07-30 A Practical Guide for Business Analysts 2005 LexisNexis Corporate Affiliations ,2005 Business Process Management with JBoss JBPM Matt Cumberlidge,2005*

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