## Jonathan Knudsen

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# Kicking Butt with MIDP and MSA

Creating Great Mobile Applications





**Roy Ben Hayun** 

Kicking Butt with MIDP and MSA Jonathan Knudsen, 2007-12-29 The release of MIDP 2 0 and the introduction of the new Mobile Service Architecture MSA are generating momentum for the Java ME platform As more and more Java enabled mobile devices become available and more service providers become open to third party development the demand for customized applications will grow dramatically Now there s a practical realistic guide to building MIDP 2 0 MSA applications that are robust responsive maintainable and fun Long time Java ME author Jonathan Knudsen offers real solutions for the complex challenges of coding efficiency application design and usability in constrained mobile environments Experienced Java developers will master MIDP 2 0 and MSA programming through clear carefully designed examples Downloadable code is available for both NetBeans Mobility Pack and the Sun Java Wireless Toolkit Kicking Butt with MIDP and MSAs wide ranging content covers Pushing MIDP s limits and exploiting MSA s full power Using MIDlets Forms commands core classes and invocation Building effective mobile user interfaces Designing graphics with the Canvas the Game API SVG and 3D Providing storage and resources record stores FileConnection and PDA PIM Internationalizing mobile applications Networking via WMA Bluetooth Web services and SIP Parsing XML documents Implementing audio and advanced multimedia Securing mobile applications with SATSA and the Payment API Building advanced location based applications Designing applications for multiple devices Creating end to end mobile application architectures JavaFX Jim Clarke, Jim Connors, Eric J. Bruno, 2009-06-01 Build Rich Applications that Run on the Desktop the Web Mobile Devices Anywhere Using JavaFX developers and graphic designers can work together to build robust immersive applications and deploy them anywhere on the desktop on the Web and on millions of Java enabled mobile devices JavaFX lets you maintain your existing graphics and seamlessly integrate them into Java applications Plus JavaFX Script is a declarative language that allows you to preserve your investment in the Java platform while allowing more creativity with JavaFX s Rich Internet Application environment JavaFXTM Developing Rich Internet Applications brings together all the knowledge techniques and reusable code you need to quickly deliver production quality solutions Writing for both developers and designers the authors explain how JavaFX simplifies and improves the RIA development process and they show how to make the most of its ready built components and frameworks JavaFXTM covers everything from data integration to multimedia special effects to REST The authors present a full chapter of code recipes and a complete case study application This book s wide ranging content includes Building and running JavaFX programs Understanding the role of graphics designers in creating JavaFX Graphical Assets Writing fast efficient JavaFX Script programs Using data binding to simplify Model View Controller application design Creating rich user experiences with JavaFX visual components Bringing user interfaces to life with lighting reflection and other special effects Adding motion with the JavaFX animation framework Incorporating pictures sound and videos in your applications Creating RESTful applications with ISON and XML Writing JavaFX applications that make the most of the

underlying Java platform The JavaTM Series is supported endorsed and authored by the creators of the Java technology at Sun Microsystems Inc It is the official place to go for complete expert and definitive information on Java technology The books in this Series provide the inside information you need to build effective robust and portable applications and applets The Series is an indispensable resource for anyone targeting the Java platform Java ME on Symbian OS Roy Ben Hayun, 2009-02-11 In this book experts from Symbian Nokia and Sun Microsystems expose the power of Java ME on Symbian OS The book introduces programming with Java ME on Symbian OS and also reveals what is found under the hood It is logically divided into four main sections Introduction to Java ME and programming fundamentals Java ME on Symbian OS core and advanced chapters Drill down into MSA DoJa and MIDP game development Under the hood of the Java ME platform The book also includes two appendixes on SNAP Mobile technology and WidSets With over ten years experience in Java technologies and over four years experience at Symbian the lead author Roy Ben Hayun now works for Sun Microsystems as a systems architect in the Engineering Services group which leads the development marketing and productizing of Java ME CLDC and CDC on different platforms Effective Java Joshua Bloch, 2008-05-08 Are you looking for a deeper understanding of the JavaTM programming language so that you can write code that is clearer more correct more robust and more reusable Look no further Effective JavaTM Second Edition brings together seventy eight indispensable programmer s rules of thumb working best practice solutions for the programming challenges you encounter every day This highly anticipated new edition of the classic Jolt Award winning work has been thoroughly updated to cover Java SE 5 and Java SE 6 features introduced since the first edition Bloch explores new design patterns and language idioms showing you how to make the most of features ranging from generics to enums annotations to autoboxing Each chapter in the book consists of several items presented in the form of a short standalone essay that provides specific advice insight into Java platform subtleties and outstanding code examples The comprehensive descriptions and explanations for each item illuminate what to do what not to do and why Highlights include New coverage of generics enums annotations autoboxing the for each loop varargs concurrency utilities and much more Updated techniques and best practices on classic topics including objects classes libraries methods and serialization How to avoid the traps and pitfalls of commonly misunderstood subtleties of the language Focus on the language and its most fundamental libraries java lang java util and to a lesser extent java util concurrent and java io Simply put Effective JavaTM Second Edition presents the most practical authoritative guidelines available for writing efficient well designed programs Ein Social Network f\rac{1}{2}r die Hosentasche: Entwurf und Implementierung einer MIDP-Applikation zur Unterhaltung eines Sozialen Netzwerkes Dieter Steuten, 2010-06 Ein digitales Soziales Netzwerk geh rt immer am Mann denn die Zeit des Personal Computers ist abgelaufen Genauso wie vor 20 Jahren die gro en teuren und seltenen Mainframes zu PCs miniaturisiert verbilligt und in Massen produziert wurden wiederholt sich die Geschichte heute bei den mobilen Endger ten Es ist somit an der Zeit Anwendungen f r echte pers nliche Computer zu entwickeln

Dr. Dobb's Journal, 2008 Entwurf und Implementierung einer MIDP-Applikation zur Unterhaltung eines **Sozialen Netzwerkes** Dieter Steuten, 2010-02-03 Inhaltsangabe Einleitung Die Zeit des Personal Computers ist abgelaufen Genauso wie vor 20 Jahren die gro en teuren und seltenen Mainframes zu PCs miniaturisiert verbilligt und in Massen produziert wurden wiederholt sich die Geschichte heute bei den mobilen Endger ten Zum jetzigen Zeitpunkt existieren mehr Mobiltelefone als station re PCs und diese Masse leistungsf higer mobiler Endger te besitzt ebenso wie die Personal Computer zur damaligen Zeit ein enormes Potential Am Erfolg des iPhone von Apple l sst sich ablesen dass vielf ltige Benutzerprogramme fr Mobiltelefone nicht nur m glich sondern auch vom Kunden nachgefragt sind Der App Store das Online Gesch ft von Apple fr Applikationen aller Couleur fr das iPhone stellt fr 21 Millionen Anwender 85 000 Applikationen bereit und erzielt einen Umsatz von einer Million Dollar pro Tag Hersteller anderer mobiler Endger te sind im Begriff dieses Konzept zu kopieren Aber sie k nnen mit propriet ren Konzepten nur einen Teil dieses Potentials aussch pfen Die unschlagbaren Vorteile mobiler Endger te sind ihre N he zum Benutzer ihr einfacher Zugang zu der Hardware durch die Programmierung in einer Hochsprache wie Java sowie ihre Leistungsf higkeit auf kleinstem Raum Eine gute Anwendung die von diesen Vorteilen profitiert wird gerade energisch von vielen gesucht Diese Arbeit hat nicht das Ziel eine Killerapplikation zu liefern Sie m chte vielmehr den evolution ren Schritt von PIM Anwendungen Personal Information Manager Adressbuch Kalender Notizen auf Handys hin zu einer aktuellen Web 2 0 Anwendung aufzeigen und eine solche Anwendung mit Hilfe etablierter einfacher und lizenzfreier Techniken entwerfen und beispielhaft implementieren Da das Thema Web 20 insbesondere die Teilnahme an sogenannten Sozialen Netzwerken frimmer mehr Menschen sowohl im Beruf als auch im Freizeitbereich an Bedeutung gewinnt wurde fr diese Arbeit die Implementierung eines Programms zur Unterhaltung eines Sozialen Netzwerks fr javaf hige Mobiltelefone MIDP Ger te als Thema gew hlt In Kapitel 2 wird kurz der Begriff des Sozialen Netzwerks erkl rt und die Verbreitung derartiger Internetangebote beschrieben wobei insbesondere beleuchtet wird inwiefern sich etablierte Soziale Netzwerke mittels mobiler Endger te nutzen lassen Im dritten Kapitel werden daraus resultierend die grunds tzlichen Erfordernisse der geplanten Applikation festgehalten In den Kapiteln 4 bis 8 werden

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