Development of Java Smart Card Application (applet)

There are 4 steps comprise the Java Card applet development:

1. Specify the functions of the applet
   - E.g., security function requires the user to enter a PIN, card locks after three unsuccessful attempts to enter the PIN.

2. Request and assign AIDs to both the applet and the package containing the applet class

3. Design the class structure of the applet programs

4. Define the interface between the applet and the terminal application

- Develop using the JavaCard development kit
  - See http://java.sun.com/products/javacard/dev_kit.html

Smart Card Application Development Using Java

Isabelle Attali,Thomas Jensen

Smart Card Application Development Using Java:

   Smart Card Application Development Using Java Uwe Hansmann,Martin S. Nicklous,Thomas Schäck,Achim Schneider,Frank Seliger,2012-12-06 In today s world smart cards play an increasingly important role in everyday life We encounter them as credit cards loyalty cards electronic purses health cards and as secure tokens for authentication or digital signature Their small size and the compatibility of their form with the magnetic stripe card make them ideal carriers of personal information such as secret keys passwords customization profiles and medical emergency information This book provides a guide for the rapid development of smart card applications using Java and the OpenCard Framework It gives you the basic information you need about smart cards and how they work It shows in detail how to develop applications that use smart cards by guiding you through examples step by step A smart card provided with the book will help you to quickly get some first hands on experience   Smart Card Application Development Using Java Uwe Hansmann,Martin S. Nicklous,Thomas Schäck,Frank Seliger,2012-04-04 In today s world smart cards play an increasingly important role in everyday life We encounter them as credit cards loyalty cards electronic purses health cards and as secure tokens for authentication or digital signature Their small size and the compatibility of their form with the magnetic stripe card make them the ideal carriers of personal information such as secret keys passwords customization profiles and medical emergency information This book provides a guide for the rapid development of smart card applications using Java and the OpenCard Framework It gives you the basic information you need about smart cards and how they work It shows in detail how to develop applications that use smart cards by guiding you through examples step by step A smart card provided along with the book will help you to quickly get some first hands on experience Das Buch bietet erstmals einen Leitfaden zur Entwicklung von Smartcard Anwendungen mit Java JDK ab Version 1 1 6 und OCF 1 1 1 auf dem Computer sowie zur Entwicklung von Java Applets die direkt auf einer Karte Java Card ausgef hrt werden Der erste Teil f hrt konzise in Grundlagen Technologie und Anwendungsm glichkeiten von Smartcard ein Im zweiten Teil werden Ziel Konzept Architektur und Komponenten des OpenCard Framework detailliert beschrieben Der dritte Teil demonstriert anhand einfacher Beispiele Aufbau und Design komplexer Anwendungen f r den Karten und den Host Teil Mit der beiliegenden Multi Function Card lassen sich die beschriebenen Beispiele leicht ausf hren und weiterentwickeln   *Smart Cards, Tokens, Security and Applications* Keith Mayes,Konstantinos Markantonakis,2017-05-18 This book provides a broad overview of the many card systems and solutions that are in practical use today This new edition adds content on RFIDs embedded security attacks and countermeasures security evaluation javacards banking or payment cards identity cards and passports mobile systems security and security management A step by step approach educates the reader in card types production operating systems commercial applications new technologies security design attacks application development deployment and lifecycle management By the end of the book the reader should be able to play an educated role in a smart card related project even

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application developers and computer science researchers involved in computer architecture computer security and cryptography   Smart Cards Timothy M. Jurgensen,Scott B. Guthery,2002 This book provides readers with an overview to the design of multiapplication smart card environments including the selection of a platform the creation of applications and the logistics of initial deployment   *Java on Smart Cards: Programming and Security* Isabelle Attali,Thomas Jensen,2003-06-29 This book constitutes the thoroughly refereed post proceedings of the First International Java Card Workshop held in Cannes France in September 2000 The 11 revised full papers presented were carefully reviewed and selected for inclusion in the book together with one invited paper All current theoretical and application oriented aspects of smart card security based on Java Card language programs are addressed   *Secure Smart Embedded Devices, Platforms and Applications* Konstantinos Markantonakis,Keith Mayes,2013-09-14 New generations of IT users are increasingly abstracted from the underlying devices and platforms that provide and safeguard their services As a result they may have little awareness that they are critically dependent on the embedded security devices that are becoming pervasive in daily modern life Secure Smart Embedded Devices Platforms and Applications provides a broad overview of the many security and practical issues of embedded devices tokens and their operation systems platforms and main applications It also addresses a diverse range of industry government initiatives and considerations while focusing strongly on technical and practical security issues The benefits and pitfalls of developing and deploying applications that rely on embedded systems and their security functionality are presented A sufficient level of technical detail to support embedded systems is provided throughout the text although the book is quite readable for those seeking awareness through an initial overview of the topics This edited volume benefits from the contributions of industry and academic experts and helps provide a cross discipline overview of the security and practical issues for embedded systems tokens and platforms It is an ideal complement to the earlier work Smart Cards Tokens Security and Applications from the same editors   *Ubiquitous Computing* Stefan Poslad,2011-08-10 This book provides an introduction to the complex field of ubiquitous computing Ubiquitous Computing also commonly referred to as Pervasive Computing describes the ways in which current technological models based upon three base designs smart mobile wireless service devices smart environments of embedded system devices and smart interaction between devices relate to and support a computing vision for a greater range of computer devices used in a greater range of human ICT and physical environments and activities The author details the rich potential of ubiquitous computing the challenges involved in making it a reality and the prerequisite technological infrastructure Additionally the book discusses the application and convergence of several current major and future computing trends Key Features Provides an introduction to the complex field of ubiquitous computing Describes how current technology models based upon six different technology form factors which have varying degrees of mobility wireless connectivity and service volatility tabs pads boards dust skins and clay enable the vision of ubiquitous computing Describes and explores how the three core designs smart devices environments

and interaction based upon current technology models can be applied to and can evolve to support a vision of ubiquitous computing and computing for the future Covers the principles of the following current technology models including mobile wireless networks service oriented computing human computer interaction artificial intelligence context awareness autonomous systems micro electromechanical systems sensors embedded controllers and robots Covers a range of interactions between two or more UbiCom devices between devices and people HCI between devices and the physical world Includes an accompanying website with PowerPoint slides problems and solutions exercises bibliography and further reading Graduate students in computer science electrical engineering and telecommunications courses will find this a fascinating and useful introduction to the subject It will also be of interest to ICT professionals software and network developers and others interested in future trends and models of computing and interaction over the next decades **Logics in Artificial Intelligence** Manuel Ojeda-Aciego,2000 This book constitutes the refereed proceedings of the European Workshop on Logics in Artificial Intelligence JELIA 2000 held in Malaga Spain in September October 2000 The 24 revised full papers presented together with three invited papers were carefully reviewed and selected out of 60 submissions The papers are organized in topical sections on knowledge representation reasoning about actions belief revision theorem proving argumentation agents decidability and complexity updates and preferences **Critical Thoughts from a Government Mindset** Ali M. Al-Khouri,2013 The chapters in Critical Thoughts From A Government Mindset have been grouped into three categories strategic management e government development and practices and identity management In the first section the book covers Corporate Government Strategy Development and Customer Relationship Management Key Features Is highly topical examines subjects that are of great current interest to governments and practitioners worldwide comprehensive detailed and thorough theoretical and practical analysis covers issues and sources rarely accessed on books on this topic The Author Dr Al Khouri is the Director General Under Secretary of the Emirates Identity Authority a federal government organisation established to rollout and manage the national identity management infrastructure program in the United Arab Emirates Readership Scholars practitioners business executives and government economic policy makers worldwide and especially those with an interest in the Middle East Contents Strategic management Corporate government strategy development a case study Customer relationship management proposed framework from a government perspective E government E government strategies the case of UAE E government in Arab countries a six staged roadmap to develop the public sector E voting in UAE FNC elections a case study Identity management Identity and mobility in a digital world Data ownership who owns my data Triggering the smart card readers supply chain *Cyber Forensics* Jr., Albert Marcella,Robert S. Greenfield,2002-01-23 Given our increasing dependency on computing technology in daily business processes and the growing opportunity to use engineering technologies to engage in illegal unauthorized and unethical acts aimed at corporate infrastructure every organization is at risk Cyber Forensics A Field Manual for Collecting Examining and Preserving

Evidence o   Smart Card. Research and Applications Jean-Jacques Quisquater,Bruce Schneier,2006-12-30 Smart cards have been driven by the need for a secure portable computing platform Hence it is no surprise that security considerations dominated their research The CARDIS conferences were created to provide a forum for this research CARDIS 1998 is the third international conference on Smart Card Research and Advanced Applications held in Louvain la Neuve Belgium 14 16 Sept ber 1998 The rst CARDIS was held in Lille France in November 1994 and the second was held in Amsterdam The Netherlands in September 1996 The fourth CARDIS is scheduled to take place in Bristol UK in September 2000 http www cardis org This volume contains the refereed papers presented at CARDIS 1998 These 35 papers were rst published in a pre proceedings and distributed to the tendees at the conference they have subsequently been revised and updated for this volume The papers discuss all aspects of smart card research Java cards elect nic commerce applications e ciency security including cryptographic al rithms cryptographic protocols and authentication and architecture Subm sions from Europe the U S Asia and Australia show that this is indeed an international area of research and one that is becoming more popular as pr tical demand for smart cards increase We wish to thank the Program Committee members who did an excellent job in reviewing papers and providing feedback to the authors   **Development of a Hotel and Casino Smart Card Application Using Java Card Technology** Li Wen Lin,C. Walter,University of Manchester Institute of Science and Technology. Department of Computation,2001   **Audio-and Video-Based Biometric Person Authentication** Josef Kittler,Mark S. Nixon,2003-08-03 The refereed proceedings of the 4th International Conference on Audio and Video Based Biometric Person Authentication AVBPA 2003 held in Guildford UK in June 2003 The 39 revised full plenary papers and 72 revised full poster papers were carefully reviewed and selected for presentation There are topical sections on face speech fingerprint image video processing and tracking general issues handwriting signature and palm gait and fusion   Secure Information Networks Bart Preneel,2013-03-14 This volume contains papers presented at the fourth working conference on Communications and Multimedia Security CMS 99 held in Leuven Belgium from September 20 21 1999 The Conference arrangedjointly by Technical Committees 11 and 6 of the International Federation of Information Processing IFIP was organized by the Department of Electrical Engineering of the Katholieke Universiteit Leuven The name Communications and Multimedia Security was used for the first time in 1995 when Reinhard Posch organized the first in this series of conferences in Graz Austria following up on the previously national Austrian IT Sicherheit conferences held in Klagenfurt 1993 and Vienna 1994 In 1996 CMS took place in Essen Germany in 1997 the conference moved to Athens Greece The Conference aims to provide an international forum for presentations and discussions on protocols and techniques for providing secure information networks The contributions in this volume review the state of the art in communications and multimedia security and discuss practical of topics experiences and new developments They cover a wide spectrum inc1uding network security web security protocols for entity authentication and key agreement protocols for mobile environments applied cryptology

watermarking smart cards and legal aspects of digital signatures   *Information Security* George Davida,Masahiro Mambo,Eiji Okamoto,1998-04-08 This book constitutes the strictly refereed post workshop proceedings of the First International Workshop on Information Security ISW 97 held in Tatsunokuchi Ishikawa Japan in September 1997 The volume presents six invited surveys together with 25 thoroughly revised full papers selected from 39 submissions Among the topics covered are public key cryptosystems cryptoanalysis digital signatures hardware software implementation key management key sharing security management electronic commerce and quantum cryptology   **The Smart Card Report** Wendy Atkins,2012-12-02 The definitive guide to the smart card industry Will help you to keep track of the major issues affecting the market Will enable you to identify new business opportunities Includes profiles of key players assesses market trends and drivers comprehensive technology review Completely revised and updated the 8th edition of The Smart Card Report examines the smart card market and major end use sectors identifying their needs for smart cards assessing growth prospects and highlighting market opportunities The study looks at the structure of the industry profiles key players assesses market trends and drivers discusses industry issues and investigates usage by geographical region and application area A comprehensive technology review is also included We have drawn on the expertise from our existing portfolio Card Technology Today newsletter and ID Smart Cards for Governement Healthcare conference to bring you vital information analysis and forecasts that cannot be found anywhere else   Multi-application Smart Cards Mike Hendry,2007-06-28 Multi application smart cards have yet to realise their enormous potential partly because few people understand the technology market and behavioural issues involved Here Mike Hendry sets out to fill this knowledge gap with a comprehensive and accessible guide Following a review of the state of the art in smart card technology the book describes the business requirements of each smart card using sector and the systems required to support multiple applications Implementation aspects including security are treated in detail and numerous international case studies cover identity telecoms banking and transportation applications Lessons are drawn from these studies to help deliver more successful projects in the future Invaluable for users and integrators specifying evaluating and integrating multi application systems the book will also be useful to terminal card and system designers network IT and security managers and software specialists   Payment Technologies for E-Commerce Weidong Kou,2013-03-14 Electronic payment is the economic backbone of all e commerce transactions This book covers the major subjects related to e payment such as for example public key infrastructure smart cards payment agents digital cash SET protocols and micro payment Its first part covers the infrastructure for secure e payment over the Internet whereas in the second part a variety of e payment methods and systems are described This edited volume offers a well written and sound technical overview of the state of the art in e payment for e business developers graduate students and consultants It is also ideally suited for classes and training courses in e commerce or e payment

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Table of Contents Smart Card Application Development Using Java

1. Understanding the eBook Smart Card Application Development Using Java
    - The Rise of Digital Reading Smart Card Application Development Using Java
    - Advantages of eBooks Over Traditional Books
2. Identifying Smart Card Application Development Using Java
    - 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 Smart Card Application Development Using Java
    - User-Friendly Interface
4. Exploring eBook Recommendations from Smart Card Application Development Using Java
    - Personalized Recommendations
    - Smart Card Application Development Using Java User Reviews and Ratings
    - Smart Card Application Development Using Java and Bestseller Lists
5. Accessing Smart Card Application Development Using Java Free and Paid eBooks
    - Smart Card Application Development Using Java Public Domain eBooks
    - Smart Card Application Development Using Java eBook Subscription Services

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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