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Replicated Data Management for Mobile Computing

Douglas B. Terry

*SYNTHESIS LECTURES ON
MOBILE AND PERVASIVE COMPUTING*

Mahadev Satyanarayanan, *Series Editor*

Replicated Data Management For Mobile Computing

Terry Douglas

Marc Langheinrich, Florian Schaub



Replicated Data Management For Mobile Computing Terry Douglas:

Replicated Data Management for Mobile Computing Terry Douglas, 2022-05-31 Managing data in a mobile computing environment invariably involves caching or replication. In many cases a mobile device has access only to data that is stored locally and much of that data arrives via replication from other devices, PCs and services. Given portable devices with limited resources, weak or intermittent connectivity and security vulnerabilities, data replication serves to increase availability, reduce communication costs, foster sharing and enhance survivability of critical information. Mobile systems have employed a variety of distributed architectures from client server caching to peer to peer replication. Such systems generally provide weak consistency models in which read and update operations can be performed at any replica without coordination with other devices. The design of a replication protocol then centers on issues of how to record, propagate, order and filter updates. Some protocols utilize operation logs whereas others replicate state. Systems might provide best effort delivery using gossip protocols or multicast or guarantee eventual consistency for arbitrary communication patterns using recently developed pairwise knowledge driven protocols. Additionally, systems must detect and resolve the conflicts that arise from concurrent updates using techniques ranging from version vectors to read write dependency checks. This lecture explores the choices faced in designing a replication protocol with particular emphasis on meeting the needs of mobile applications. It presents the inherent trade offs and implicit assumptions in alternative designs. The discussion is grounded by including case studies of research and commercial systems including Coda, Ficus, Bayou, Sybase's iAnywhere and Microsoft's Sync Framework.

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Replicated Data Management for Mobile Computing Douglas Brian Terry,2008 Managing data in a mobile computing environment invariably involves caching or replication In many cases a mobile device has access only to data that is stored locally and much of that data arrives via replication from other devices PCs and services Given portable devices with limited resources weak or intermittent connectivity and security vulnerabilities data replication serves to increase availability reduce communication costs foster sharing and enhance survivability of critical information Mobile systems have employed a variety of distributed architectures from client server caching to peer to peer replication Such systems generally provide weak consistency models in which read and update operations can be performed at any replica without coordination with other devices The design of a replication protocol then centers on issues of how to record propagate order and filter updates Some protocols utilize operation logs whereas others replicate state Systems might provide best effort delivery using gossip protocols or multicast or guarantee eventual consistency for arbitrary communication patterns using recently developed pairwise knowledge driven protocols Additionally systems must detect and resolve the conflicts that arise from concurrent updates using techniques ranging from version vectors to read write dependency checks This lecture explores the choices faced in designing a replication protocol with particular emphasis on meeting the needs of mobile applications It presents the inherent trade offs and implicit assumptions in alternative designs The discussion is grounded by including case studies of research and commercial systems including Coda Ficus Bayou Sybase s iAnywhere and Microsoft s Sync Framework Table of Contents Introduction System Models Data Consistency Replicated Data Protocols Partial Replication Conflict Management Case Studies Conclusions Bibliography

Privacy in Mobile and Pervasive Computing Marc Langheinrich,Florian Schaub,2022-05-31 It is easy to imagine that a future populated with an ever increasing number of mobile and pervasive devices that record our minute goings and doings will significantly expand the amount of information that will be collected stored processed and shared about us by both corporations and governments The vast majority of this data is likely to benefit us greatly making our lives more convenient efficient and safer through custom tailored and context aware services that anticipate what we need where we need it and when we need it But beneath all this convenience efficiency and safety lurks the risk of losing control and awareness of what is known about us in the many different contexts of our lives Eventually we may find ourselves in a situation where something we said or did will be misinterpreted and held against us even if the activities were perfectly innocuous at the time Even more concerning privacy implications rarely manifest as an explicit tangible harm Instead most privacy harms manifest as an absence of opportunity which may go unnoticed even though it may

substantially impact our lives In this Synthesis Lecture we dissect and discuss the privacy implications of mobile and pervasive computing technology For this purpose we not only look at how mobile and pervasive computing technology affects our expectations of and ability to enjoy privacy but also look at what constitutes privacy in the first place and why we should care about maintaining it We describe key characteristics of mobile and pervasive computing technology and how those characteristics lead to privacy implications We discuss seven approaches that can help support end user privacy in the design of mobile and pervasive computing technologies and set forward six challenges that will need to be addressed by future research The prime target audience of this lecture are researchers and practitioners working in mobile and pervasive computing who want to better understand and account for the nuanced privacy implications of the technologies they are creating Those new to either mobile and pervasive computing or privacy may also benefit from reading this book to gain an overview and deeper understanding of this highly interdisciplinary and dynamic field

A Practical Guide to Testing

Wireless Smartphone Applications Julian Harty, 2022-06-01 Testing applications for mobile phones is difficult time consuming and hard to do effectively Many people have limited their testing efforts to hands on testing of an application on a few physical handsets and they have to repeat the process every time a new version of the software is ready to test They may miss many of the permutations of real world use and as a consequence their users are left with the unpleasant mess of a failing application on their phone Test automation can help to increase the range and scope of testing while reducing the overhead of manual testing of each version of the software However automation is not a panacea particularly for mobile applications so we need to pick our test automation challenges wisely This book is intended to help software and test engineers pick appropriately to achieve more and as a consequence deliver better quality working software to users This Synthesis lecture provides practical advice based on direct experience of using software test automation to help improve the testing of a wide range of mobile phone applications including the latest AJAX applications The focus is on applications that rely on a wireless network connection to a remote server however the principles may apply to other related fields and applications We start by explaining terms and some of the key challenges involved in testing smartphone applications Subsequent chapters describe a type of application e g markup AJAX Client followed by a related chapter on how to test each of these applications Common test automation techniques are covered in a separate chapter and finally there is a brief chapter on when to test manually The book also contains numerous pointers and links to further material to help you to improve your testing using automation appropriately Table of Contents Introduction Markup Languages Testing Techniques for Markup Applications AJAX Mobile Applications Testing Mobile AJAX Applications Client Applications Testing Techniques for Client Applications Common Techniques When to Test Manually Future Work Appendix A Links and References Appendix B Data Connectivity Appendix C Configuring Your Machine

The Landscape of Pervasive Computing Standards Sumi Helal, 2022-05-31 This lecture presents a first compendium of established and emerging standards in pervasive computing

systems The lecture explains the role of each of the covered standards and explains the relationship and interplay among them Hopefully the lecture will help piece together the various standards into a sensible and clear landscape The lecture is a digest reorganization and a compilation of several short articles that have been published in the Standards and Emerging Technologies department of the IEEE Pervasive Computing magazine The articles have been edited and shortened or expanded to provide the necessary focus and uniform coverage depth There are more standards and common practices in pervasive systems than the lecture could cover However systems perspective and programmability of pervasive spaces which are the main foci of the lecture set the scope and determined which standards should be included The lecture explains what it means to program a pervasive space and introduces the new requirements brought about by pervasive computing Among the standards the lecture covers are sensors and device standards service oriented device standards service discovery and delivery standards service gateway standards and standards for universal interactions with pervasive spaces In addition the emerging sensor platform and domestic robots technologies are covered and their essential new roles explained The lecture also briefly covers a set of standards that represents an ecosystem for the emerging pervasive healthcare industry Audiences who may benefit from this lecture include 1 academic and industrial researchers working on sensor based pervasive or ubiquitous computing R 2 system integrator consultants and firms especially those concerned with integrating sensors actuators and devices to their enterprise and business systems 3 device smart chips and sensor manufacturers 4 government agencies 5 the healthcare IT and pervasive health industries and 6 other industries such as logistics manufacturing and the emerging smart grid and environment sustainability industries Table of Contents Preface Acknowledgments Introduction Sensor and Device Standards Service Oriented Device Architecture SODA Sensor Platforms Service Discovery and Delivery Standards The Open Services Gateway Initiative OSGi Universal Interactions Domestic Robots for Smart Space Interactions Continua An Interoperable Personal Health Ecosystem References Author Biography **Mobile Platforms and**

Development Environments Sumi Helal,Raja Bose,Wendong Li,2022-06-01 Mobile platform development has lately become a technological war zone with extremely dynamic and fluid movement especially in the smart phone and tablet market space This Synthesis lecture is a guide to the latest developments of the key mobile platforms that are shaping the mobile platform industry The book covers the three currently dominant native platforms iOS Android and Windows Phone along with the device agnostic HTML5 mobile web platform The lecture also covers location based services LBS which can be considered as a platform in its own right The lecture utilizes a sample application TwitterSearch that the authors show programmed on each of the platforms Audiences who may benefit from this lecture include 1 undergraduate and graduate students taking mobile computing classes or self learning the mobile platform programmability road map 2 academic and industrial researchers working on mobile computing R 3 mobile app developers for a specific platform who may be curious about other platforms 4 system integrator consultants and firms concerned with mobilizing businesses and enterprise apps and 5

industries including health care logistics mobile workforce management mobile commerce and payment systems and mobile search and advertisement Table of Contents From the Newton to the iPhone iOS Android Windows Phone Mobile Web Platform in Platform Location Based Services LBS The Future of Mobile Platforms TwitterSearch Sample Application

Quality of Service in Wireless Networks Over Unlicensed Spectrum Klara Nahrstedt, 2022-06-01 This Synthesis Lecture presents a discussion of Quality of Service QoS in wireless networks over unlicensed spectrum The topic is presented from the point of view of protocols for wireless networks e g 802 11 rather than the physical layer point of view usually discussed for cellular networks in the licensed wireless spectrum A large number of mobile multimedia wireless applications are being deployed over WiFi IEEE 802 11 and Bluetooth wireless networks and the number will increase in the future as more phones tablets and laptops are equipped with these unlicensed spectrum wireless interfaces Achieving QoS objectives in wireless networks is challenging due to limited wireless resources wireless nodes interference wireless shared media node mobility and diverse topologies The author presents the QoS problem as 1 an optimization problem with different constraints coming from the interference mobility and wireless resource constraints and 2 an algorithmic problem with fundamental algorithmic functions within wireless resource management and protocols Table of Contents Preface Basics of Quality of Service in Wireless Networks QoS Aware Resource Allocation Bandwidth Management Delay Management Routing Acknowledgment References Author Biography *Mobile User Research* Sunny Consolvo, Frank R. Bentley, Eric B. Hekler, Sayali S. Phatak, 2022-06-01 This book will give you a practical overview of several methods and approaches for designing mobile technologies and conducting mobile user research including how to understand behavior and evaluate how such technologies are being or may be used out in the world Each chapter includes case studies from our own work and highlights advantages limitations and very practical steps that should be taken to increase the validity of the studies you conduct and the data you collect This book is intended as a practical guide for conducting mobile research focused on the user and their experience We hope that the depth and breadth of case studies presented as well as specific best practices will help you to design the best technologies possible and choose appropriate methods to gather ethical reliable and generalizable data to explore the use of mobile technologies out in the world Landscape of Pervasive Computing Standards ,

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