

Synchronous Communication

vs

Asynchronous Communication

SYNC

Real-time Response

SYNC



REST API



Not suitable for Service (AWS S3)



Synchronous Communication

Simple to simulate to implement

Works well for Delayed response in Service API



Dependent for Service (AWS API)



ASYNC

- Real-time response
- Dependent on service
- Uncontrolled latency



Dependent on implementation vs AWS S3 API

Works well for background response → Delayed response



Works well for implementation (AWS S3)



KAFKA



Some other implementation (AWS SQS)

Top Async Communication

Arturo Cuomo



Top Async Communication:

On the Move to Meaningful Internet Systems: OTM 2011 Workshops Robert Meersman, Tharam Dillon, Pilar Herrero, 2011-10-30 This volume constitutes the refereed proceedings of nine international workshops EI2N NSF ICE ICSP INBAST ISDE MONET ORM SeDeS SWWS and VADER 2011 held as part of OTM 2011 in Hersonissos on the island of Crete Greece in October 2011 The 64 revised full papers presented were carefully reviewed and selected from a total of 104 submissions The volume also includes three papers from the On the Move Academy OTMA 2011 and five ODBASE 2011 poster papers Topics of the workshop papers are enterprise integration and semantics information centric engineering interoperability industrial and business applications of semantic Web applications information systems in distributed environments process management in distributed information system development distributed information systems implementation issues and applications industrial applications of fact oriented modeling data warehouse modeling extensions to fact oriented modeling model validation procedures schema transformations and mapping semantic Web and Web semantics ontology development deployment and interoperability data access and efficient computation efficient information processing exchange and knowledge synthesis algorithms mobile and networking technologies for social applications semantic and decision support variability in software architecture and dynamic and adaptive architectures

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Symbian OS Communications Programming Michael J. Jipping,2002-08-02 A developer s guide to the Symbian OS communications architecture The Symbian OS communications architecture is the cornerstone of Symbian OS enabling the combination of voice communications wireless Internet access and computing functionality This book is designed to help developers understand the Symbian platform and learn how to develop and deliver those vital products that plug in to the comms architecture Services built around this architecture will drive the 3G market Covers both architectural and hands on programming perspectives of the Symbian OS Comms Architecture Demonstrates how to use the Symbian OS Comms APIs from C and Java Includes coverage of technologies including serial comms sockets IRDA TCP IP and PPP Bluetooth Telephony GSM Messaging Email Fax SMS HTTP HTML WAP WML and more Portable C++ Patricia Giencke,1996 Many books discuss how to use C but none deals with how to write C code in a portable manner The first in depth guide to address the special needs of the C programmer this groundbreaking book provides a set of guidelines to help software engineers design and implement C applications that work with the many flavors of UNIX as well as with Windows **Official Gazette of the United States Patent and Trademark Office** United States. Patent and Trademark Office,1999 **Official Gazette of the United States Patent and Trademark Office** ,1999 **Holonic Control for Large Scale Automated Logistic Systems** Cornelis Versteegt,2004 **Client/server Programming with OS/2 2.1** Robert Orfali,Dan Harkey,1993 COM and DCOM Roger Sessions,1998 This book teaches software developers the pros and cons of Component Object Model COM and Distributed Component Object Model DCOM It explains how to use COM and DCOM with their existing systems how they fit into two and three tier client server architectures and new technologies from Microsoft such as Transaction Server and Falcon **Flow Simulation with High-performance Computers I** Ernst-Heinrich Hirschel,1993 *Client/server Survival Guide with OS/2* Robert Orfali,Dan Harkey,1994 The ultimate guide into the mystical world of client server computing and its explosion of technology The book covers network operating systems SQL database servers image and multimedia servers transaction monitors distributed objects and workflow servers Also covered are the tools used to create applications and manage them in distributed environments Upper Layer Protocols, Architectures, and Applications Gerald Neufeld,1992 The primary objective of this volume is the exploration of important topics in the area of the upper layers that is networking functions beyond information control Contributions made by leading experts from around the world

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