How to Design a Chat Application?

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Alice

Bob

① Alice logs in   ① Alice sends a chat msg   ⑧ send to Bob

| HTTP Gateway | WebSocket Gateway |

② presence service receives a notification

② the msg is routed to chat service A

⑦ send to web socket gateway

④ fan out updates

Online Presence

Alice's Friends

Chat Service A

Chat Service B

③ update Alice's presence

③ send to sequencing and persistence

6.a

Bob is online: send to chat service B

send to Bob

Presence Data

Sequencing & Persistence

Push Notification Server

⑤ send to msg sync

6.b Bob is offline: send to push notification

④ persist msg

Message Sync

Login Flow

Chat Msg (Hot Data)

Chat History (Cold Data)

Messaging Flow
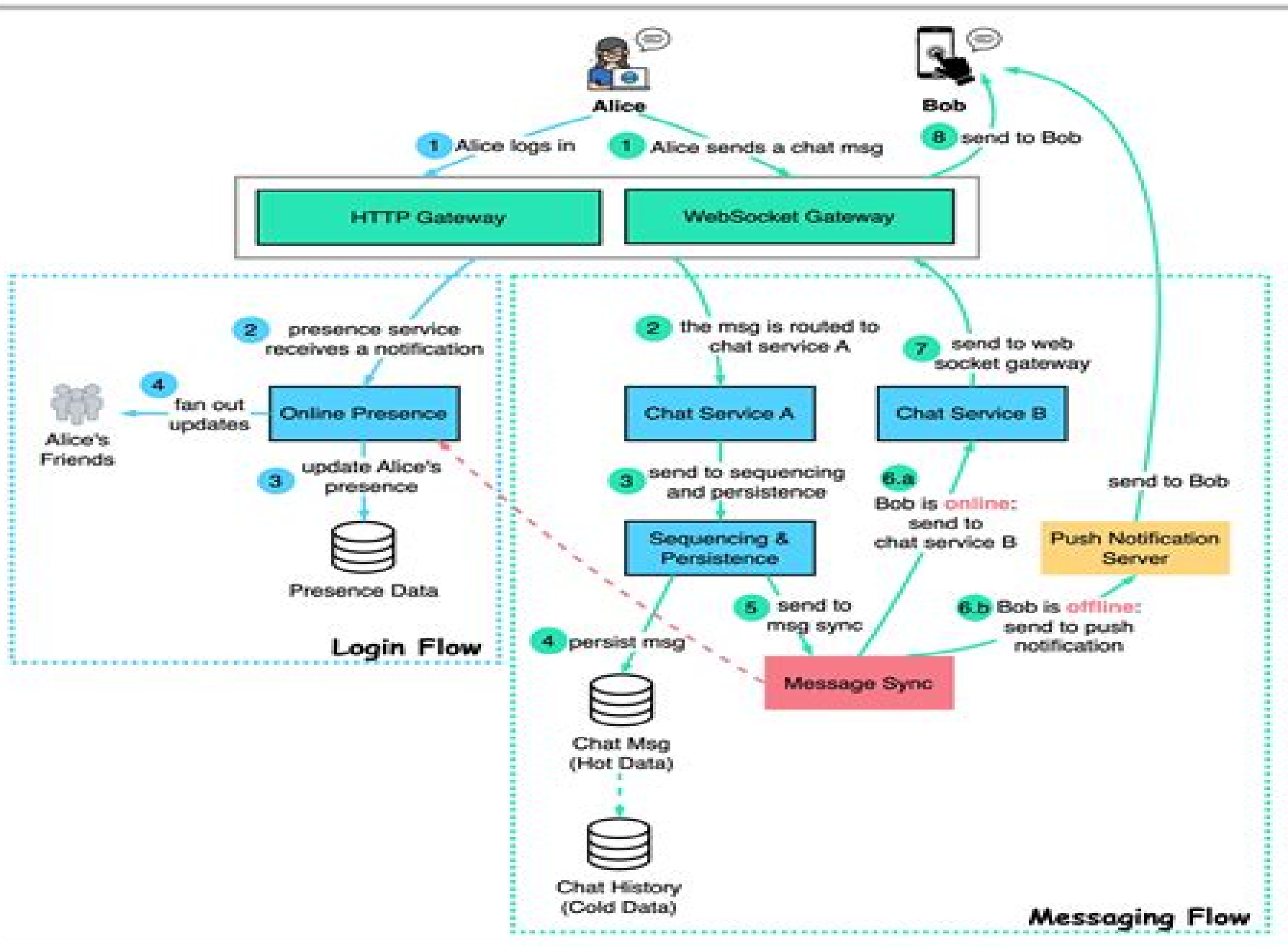
Chat Application Project Documentation

Zhe Xu

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    Professional Joomla! Dan Rahmel,2007-10 Provides informaton on using the open source content management system used to manage data on the World Wide Web covering such topics as creating Joomla expressions using Ajax technology and adopting design patterns and incorporating source code control   **Proceedings of the 9th International Conference on the Applications of Science and Mathematics** Phang Chang,Kavikumar Jacob,Logenthiran Machap,Siti Amira Othman,Shakila Abdullah,Nurul Nadia Adnan,2025-08-02 This book presents peer reviewed articles and highlights successful examples of integrating science and mathematics for future global initiatives from the 9th International Conference on the Applications of Science and Mathematics SCIEMATHIC 2024 held in Malaysia It provides knowledge exchange between experts in the fields of science and mathematics that promotes harmony and holistic understanding for future generations Topics included in this proceeding are mathematics and statistics physics chemistry engineering sciences and artificial intelligence   **ECEL2003-Proceedings of the 2nd European Conference on eLearning - 2003** Roy Williams,2003

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version of the popular progamming tool allows programmers to bring Visual Basic to the Web With the new release of Microsoft Web development tools including Visual Basic 5 0 programmers can leverage their existing skills as they bring the advantages of Visual Basic to their Web sites This book is a guide for experienced Visual Basic programmers who are both new and experienced with the Internet to developing Web applications with Microsoft s new suite of tools Web Site provides actively maintained software demos and sourcecode contained in the book   Preliminary Report on the Pacific Gas & Electric Company's Notice of Intention to Seek Certification for Geysers Unit 17 California Energy Commission,1978

    Proceedings ,2001   **Documentation Abstracts** ,2003

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