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

Chat Service A

Chat Service B

Alice's Friends

③ update Alice's presence

③ send to sequencing and persistence

⑥.a
Bob is online: send to chat service B

send to Bob

Sequencing & Persistence

Push Notification Server

Presence Data

⑤ send to msg sync

⑥.b Bob is offline: send to push notification

④ persist msg

Message Sync

Chat Msg (Hot Data)

Chat History (Cold Data)

Login Flow

Messaging Flow
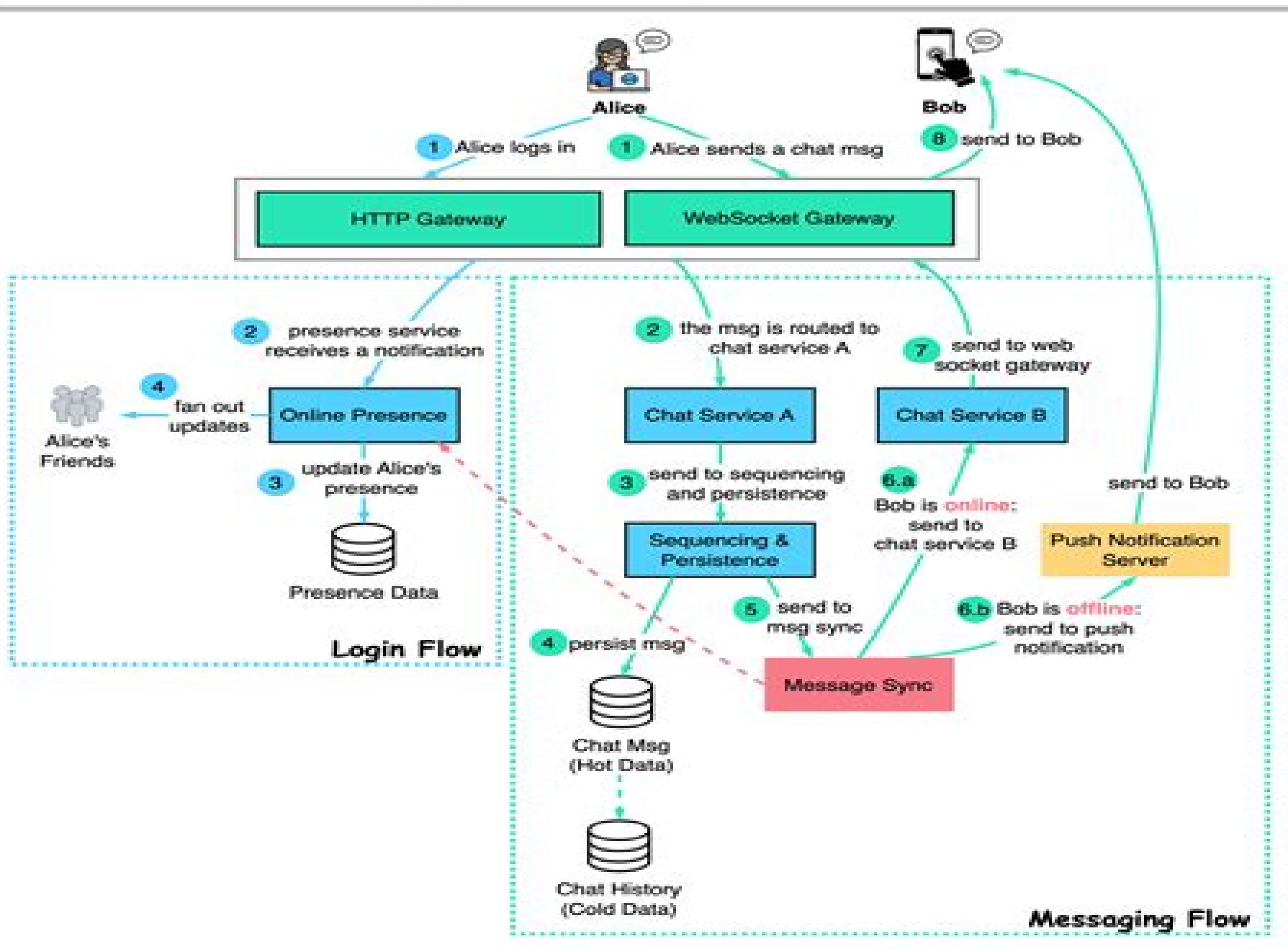
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Atelier Sur la Technologie, L'utilization Et L'assurance de Qualité Du Poisson en Afrique ,2011 This document contains the report and papers of the third Workshop on Fish Technology Utilization and Quality Assurance in Africa The workshop was held at the International Conference Centre ICC Victoria Mahe Seychelles from 22 to 25 November 2011 It was attended by 30 experts who reviewed the progress in post harvest fish utilization with particular attention to fresh fish handling fish processing quality assurance marketing and socio economic issues

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