

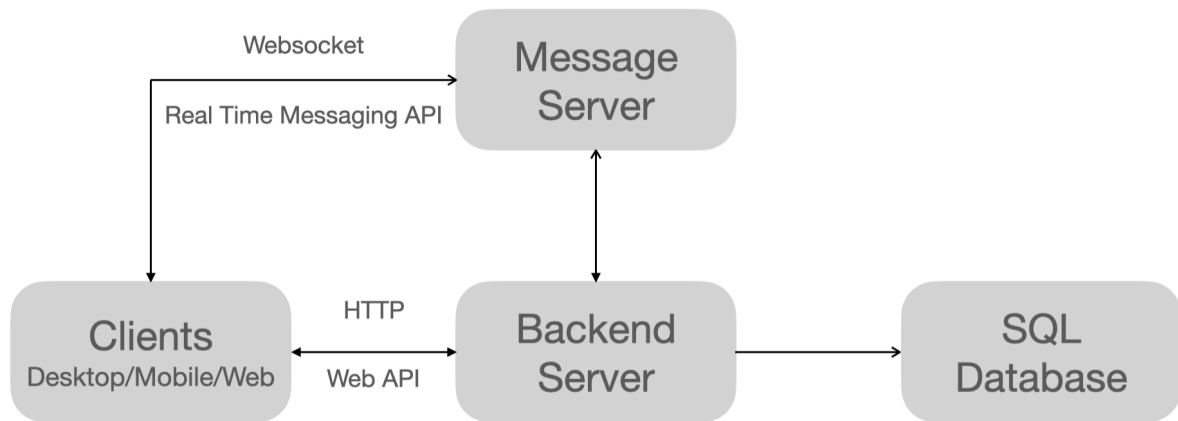
Slack-like system design

1. Top-level description of the proposed architecture:

Slack uses client-server architecture.

There are four components:

- Clients
- Message Server
- Backend Server
- SQL Database



2. Detailed description of each architecture element:

- Clients: desktop, mobile, web; call the backend to fetch the latest snapshot of the app;
- Message server: listens to updates from backend server, provides real-time events for all clients within workspace;
- Backend Server: contains business logic of Slack app, works with interactions between users and workspace channels; has information about message server and database component and knows how to talk to them;
- SQL Database: storage layer for everything that happens within Slack app.