# Design Doc: Mini Slack

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#### Overview

Mini Slack is a full-stack system supporting multiple users real time sending messages in multiple groups. This document covers the details of the implementation of this project from engineering perspective.

### Major Use Cases

#### User account

- 1. User can create account, log in and log out.
- 2. User can edit the basic details like uploading image.
- 3. User could add friends and delete friends.

#### Chat

- 1. Multiple users could chat in channels.
- 2. User can join multiple channels.
- 3. User can send emoji, sticker.
- 4. Chatting history will be stored.

#### Channel

- 1. User could see list of channels.
- 2. User can create the channel to chat.
- 3. User could search channel.

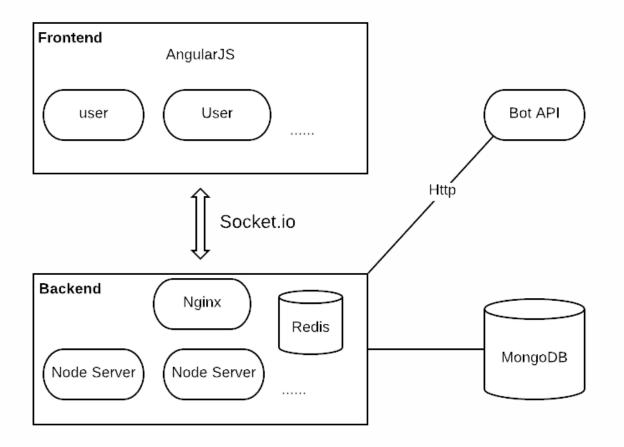
#### Bot

- 1. Every Channel have a bot to chat.
- 2. Every user could have a private channel chat with bot.

# High-level Stack Diagram

Stack	Technologies
Frontend-client	AngularJS, Socket.io
Backend-server	Express, Socket.io, MongoDB, Redis, Nginx, Bot Service

### Architecture



Details