

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 can add friends and delete friends.

Chat

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

Channel

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

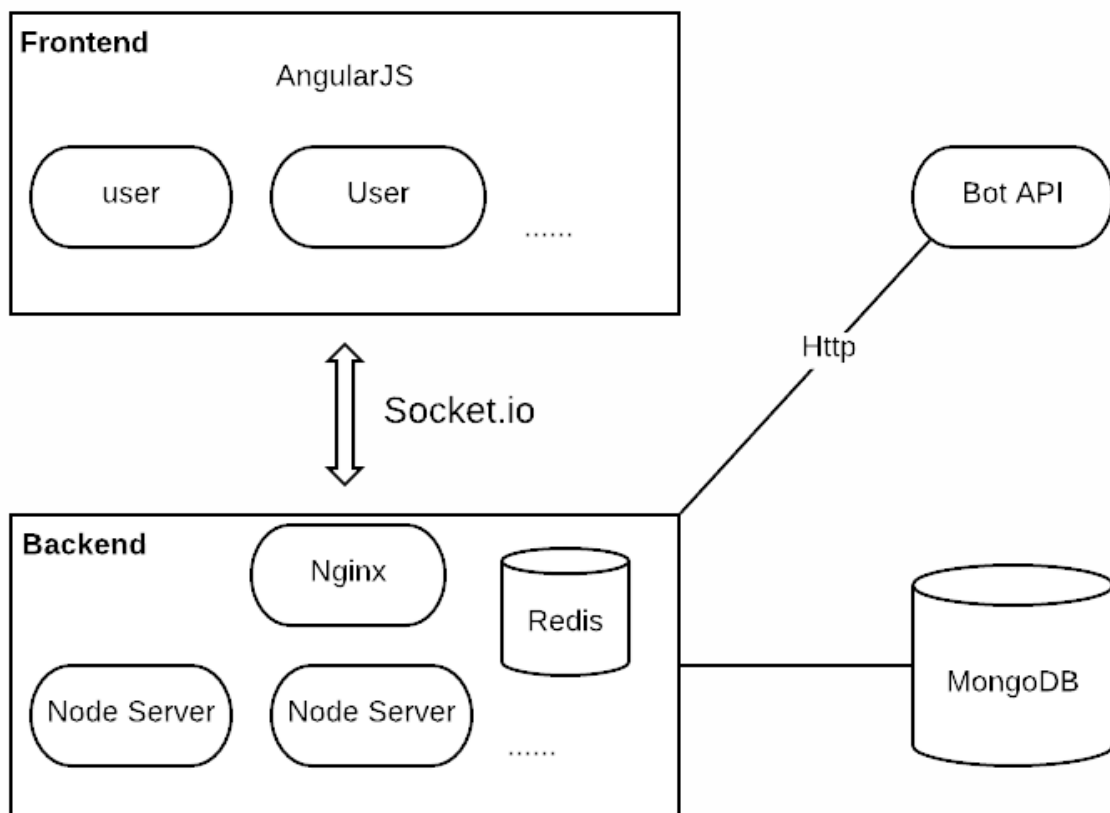
Bot

1. Every Channel has a bot to chat.
2. Every user can 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



Detailed Design

Log in & Register

Bot API

UI Example





用户

房间

个人

关于

系统: 欢迎来到 1

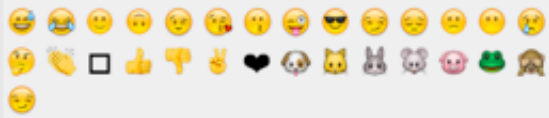
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