c18n

A Community Discussion Platform

| S. No. | Contributor | Comments | Date | Reviewed By | Review Date |
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| 1 | Jitender Singh | Introduction, Architecture dagram | Jul/25/2021 |  |  |
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# Introduction

The community discussion platform code named **c18n** (naming convention borrowed from other [numeronyms](https://en.wikipedia.org/wiki/Numeronym) like k8s, i18n, l10n etc.) is a community platform to support user discussions and direct messaging between users or user groups.

The primary goal is provide a social network service where users across the globe can connect to each other, form communities based on their interest areas, create user group with people they know directly or indirectly and engage in discussions, or send direct messages.

The **c18n** platform intends to build a strong user base by providing them with a rich feature set including (but not limited to) community creation, rich media posts containing text, images, audio, video and other interactive media, user discovery, likes, comments and shares, direct and group messaging, user discussion threads, custom profiles and building of user circles / friends networks.

As the user base is expected to grow to millions of users worldwide, the c18n platform aims to make use of a highly scalable, fault tolerant and low latency architecture by using various streaming and big data solutions.

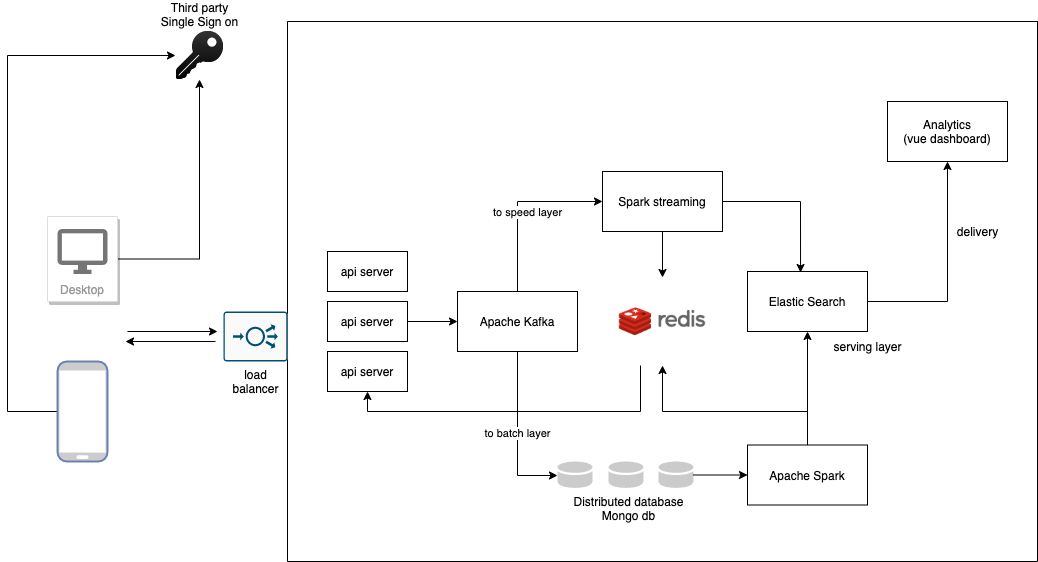
For the proof of concept app for **c18n**, the focus area will be limited to a system that provides an end to end implementation of the community posts and direct user (or user group) messaging. We also intend to provide a set of custom scripts to make it easy to generate the required data and a functional UI to visualise the user experience.

The PoC app is expected to have all the primary components running their simplest configuration such that the entire **c18n** PoC app can be set up and run on a single node (or a single node cluster.)

# High Level design

Design Components

Data Flow

Schema / Data Format

Design choices and improvements

Challenges

Future Scope