

# Design Document

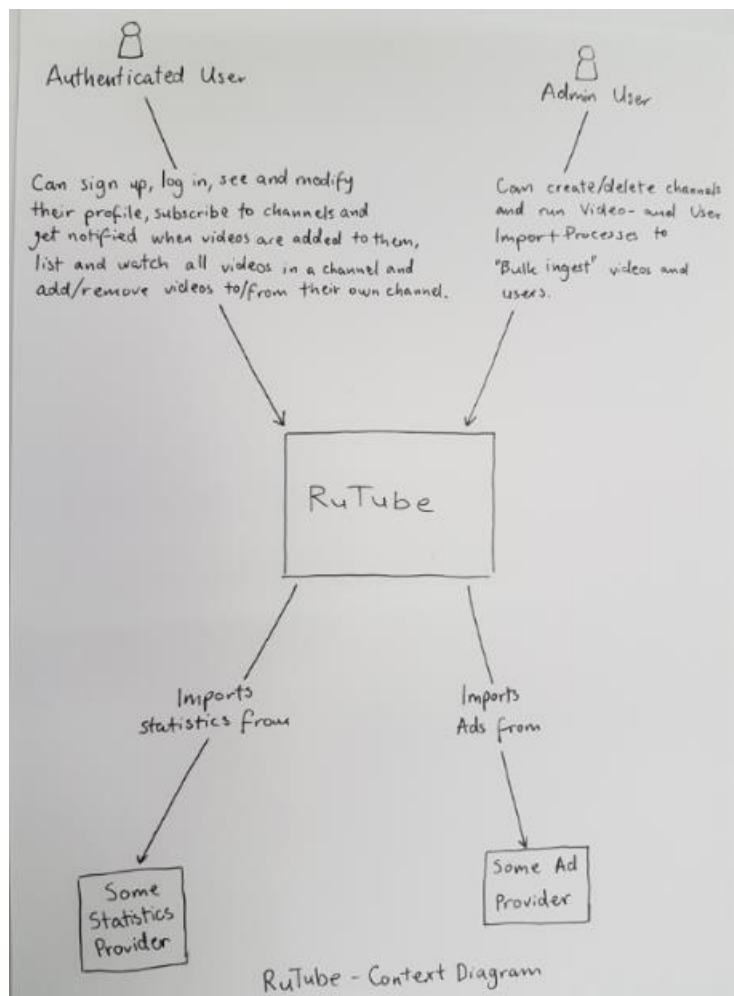
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## Introduction:

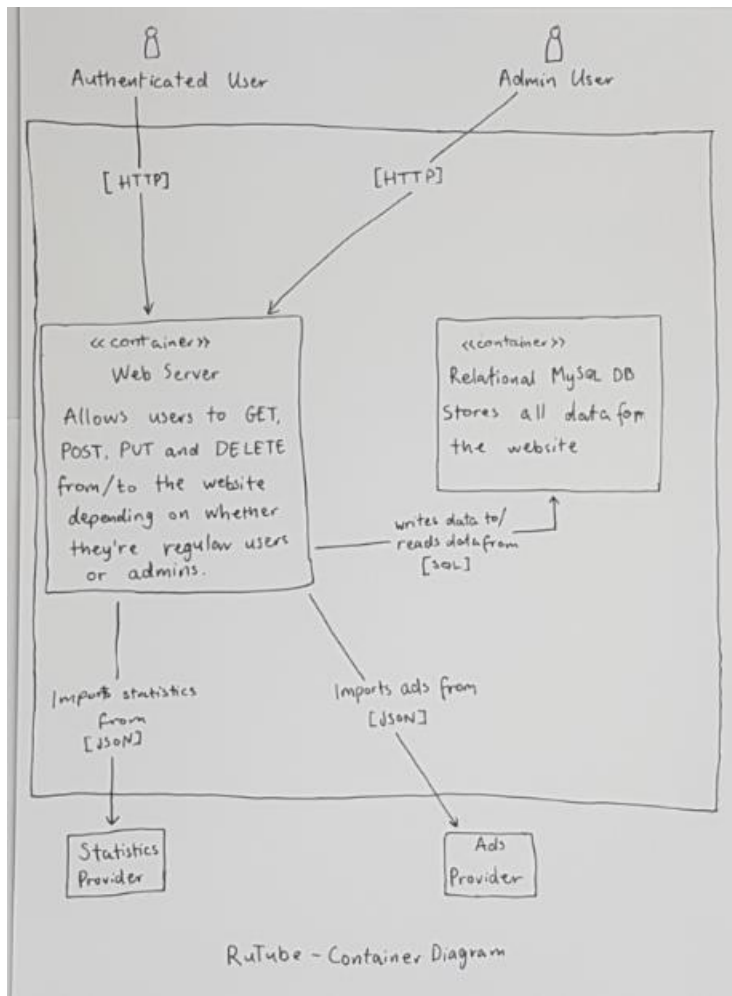
This document is made to explain the RuTube system to the user through the use of diagrams. This will be done with three diagrams and a database schema, along with REST URI's for the account service, user service and video service.

The diagrams are as follows:

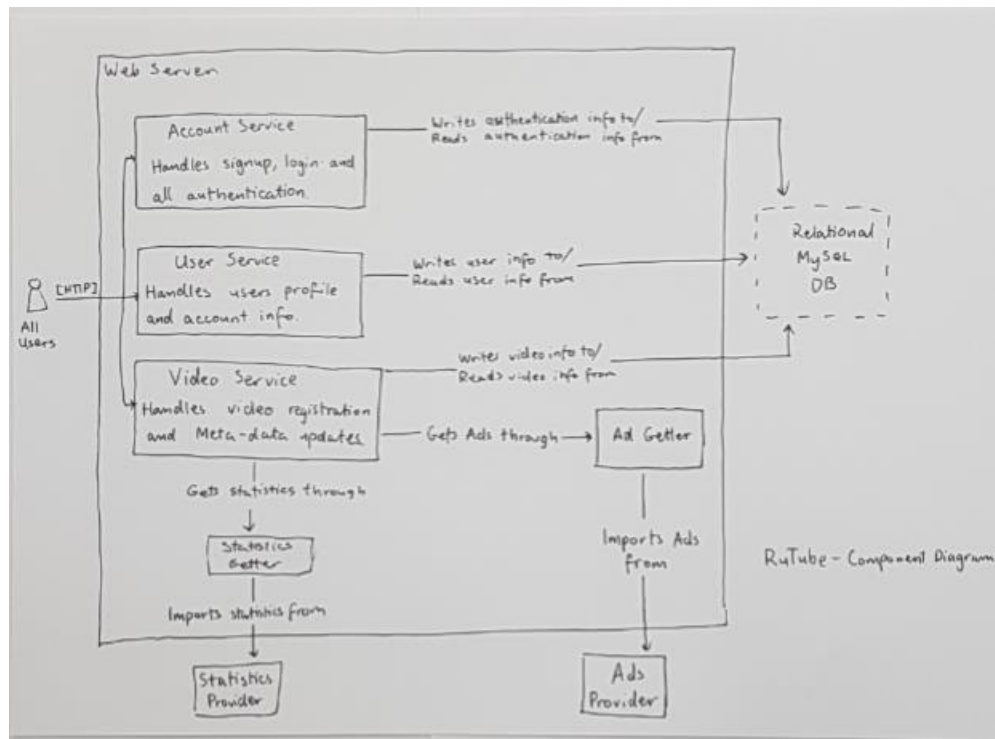
**The Context Diagram** shows an overview of the whole system, along with information about what each user type can do and what IT-Systems are linked to the system and how.



**The Container Diagram** shows a more detailed version of the system, showing what containers it has. These containers are the Web Server, containing all the logic of the system, and the Database, holding all the data.



The **Component Diagram** shows all components of the Web Server and how they work together when the program is running.



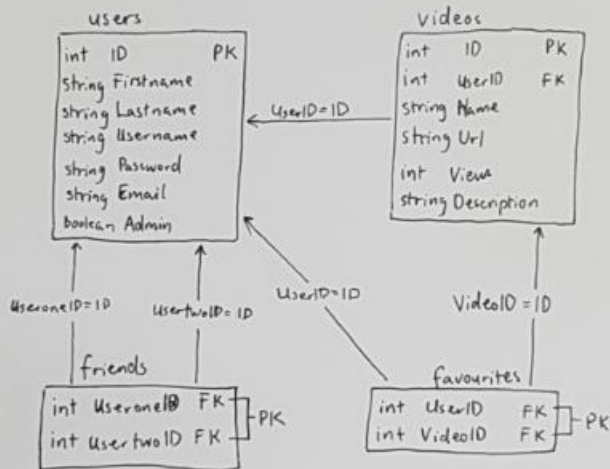
**The Database Schema** shows all tables in the MySQL database, all attributes in each table, all primary and foreign keys, along with information about each tables function.

PK = Primary Key

FK = Foreign Key

] PK = Joint Primary Key

A  $\xrightarrow{x \rightarrow y}$  B = X in table A is Y in table B



### RuTube - Database Schema

users - Stores all info about users

videos - Stores all info about videos

friends - Stores data about what users are friends

favourites - Stores which users have what favourite videos

## The REST URI's:

### Account Service:

- Post new user info to Database – POST /account
- Get user info by username for login – GET /account/:username

### User Service:

- Get all users – GET /users
- Post user info – POST /users
- Get user info by ID – GET /users/:id
- Change user info by ID – PUT /users/:id
- Delete user by ID – DELETE /users/:id

### Video Service:

- Get all videos – GET /videos
- Post video to a channel – POST /videos/channel/:id
- Get all videos in a channel – GET /videos/channel
- Get video by ID – GET /videos/:id
- Change video info by ID – PUT /videos/:id
- Delete video by ID – DELETE /videos/:id