

# Software architecture document

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1/5/21

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## 1. Project overview

This document will explain the details of the software design of the project, done by the group. The consists of three members and is mentored by the team lead at Greenhouse.

The core of the project is to increase fan engagement by sending them custom made (personalized) greetings on their birthday in the form of an audio-visual message. The idea is to combine two videos. One is a prerecorded video from one of the PSV players and the other one is the dynamic audio bit performed by google home, where all the customization happens. This will result into a personal message for a PSV fan on his/her birthday which will eventually help in fan engagement and making fans happy.

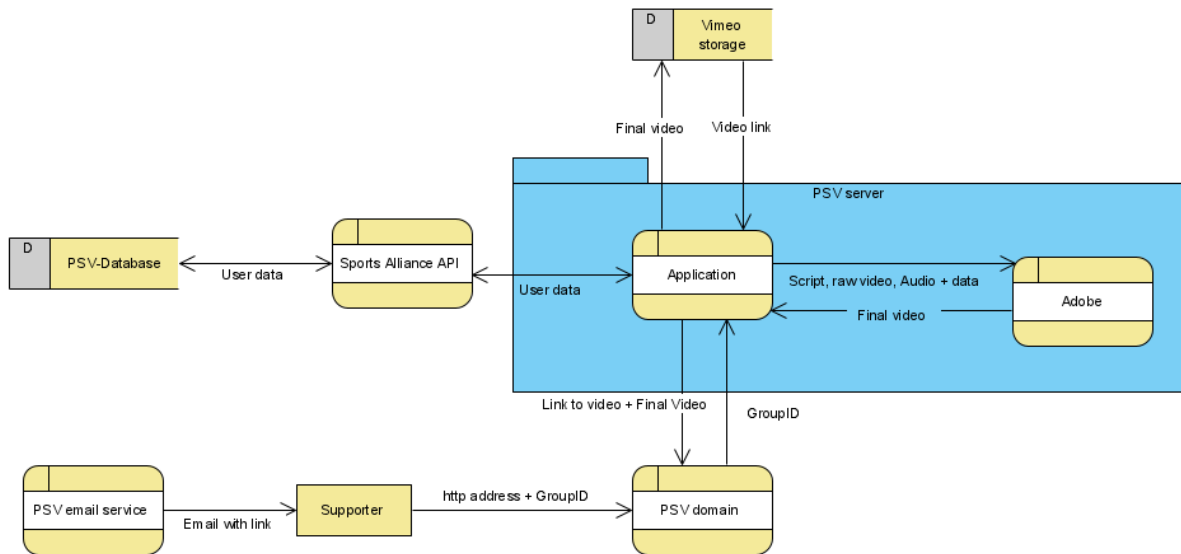
## 2. Introduction

This document explains the details about the building of the whole software that is created. The document will consist of three C models and the process of the software. After reading this document it will be clear how the software is set up.

### 3. Software Design

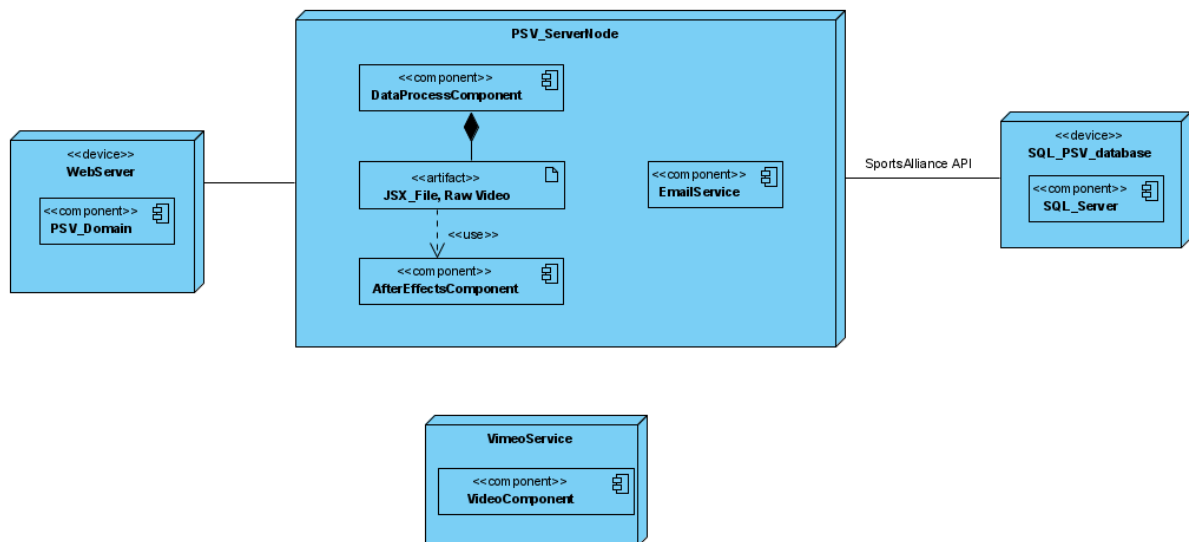
#### C1, Data flow diagram

The data flow diagram visualizes the highest level of the application, showing how the data is transferred between internal and external components.

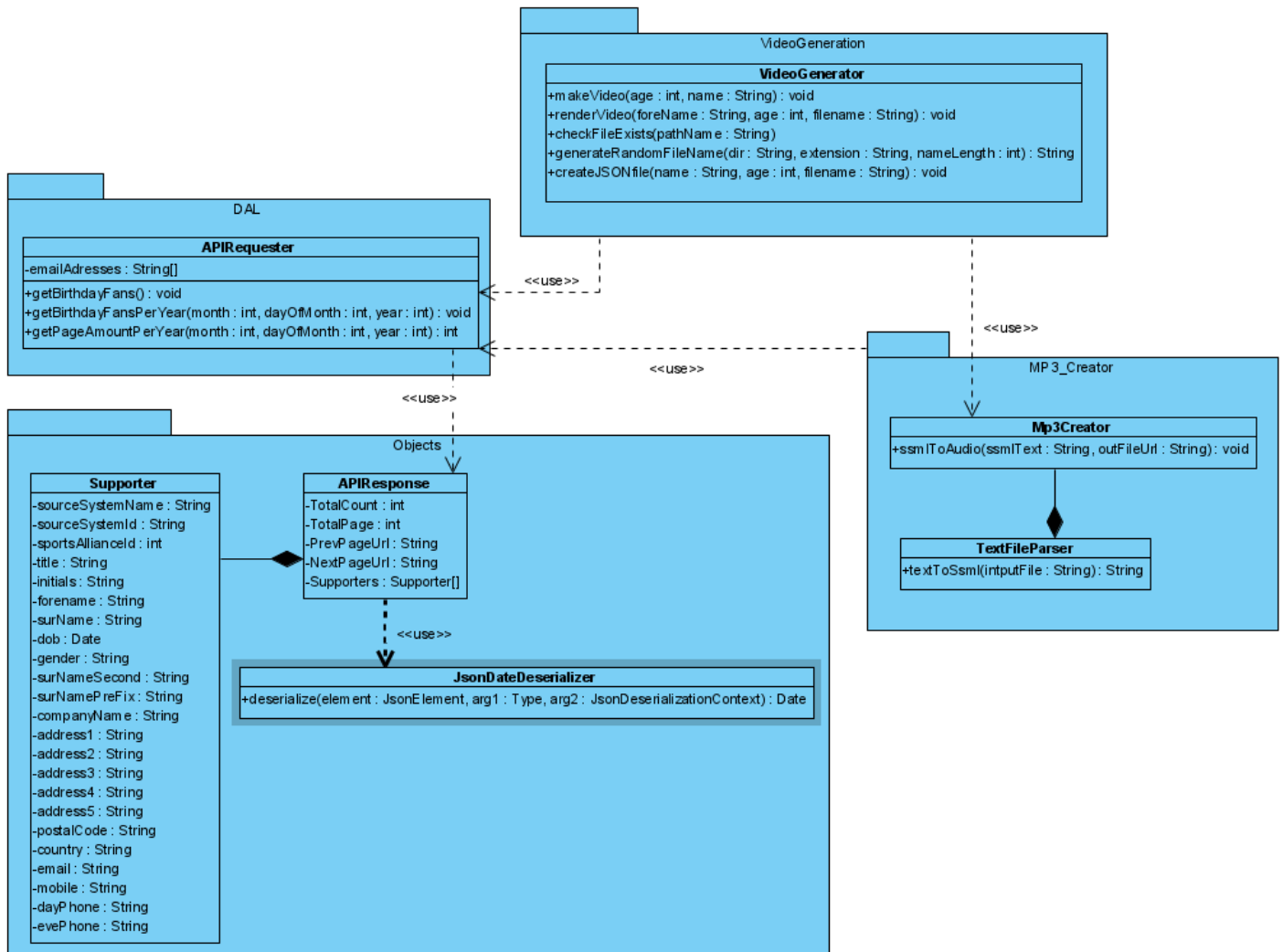


This diagram is an overview and not a process. The different devices are the SportsAlliance API, the Application (which is located on the PSV server), the Vimeo server, adobe (headless version of adobe located on the PSV server too), PSV domain and the email service.

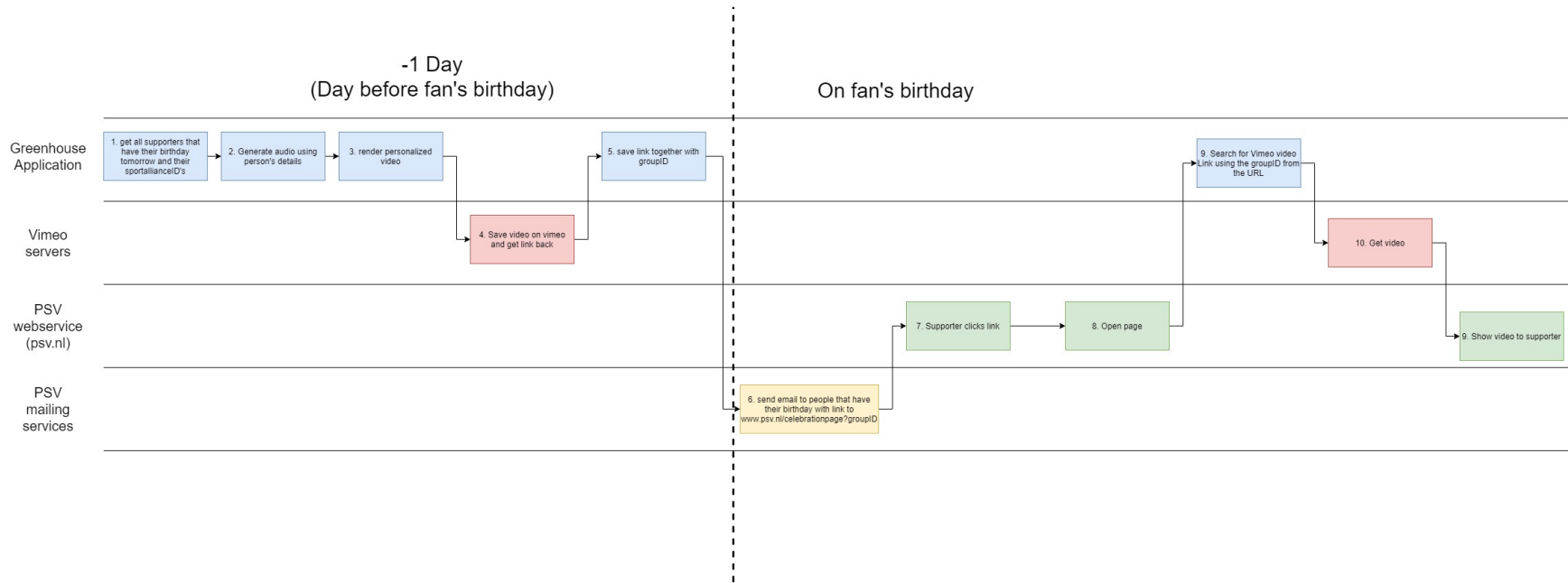
#### C2, Component diagram



## C4, Class diagram



## 4. Process



## PROCESS

### 1. Day 1: Before Birthday

- **Prototype:** Fetch fans from PSV database who have birthday next day
- **Prototype:** It generates audio file i.e. fan's name and age using google TTS API it translates text into audio
- **Prototype:** Fetches audio file generated using TTS and embed it in Pre recorded video and render the video
- **Vimeo:** fetched rendered video, upload it to Vimeo account and return the upload link where video is stored
- **Prototype:** Combine video link (a landing page for the video) in the birthday email using group ID from PSV database

### 2. Day 2: On Birthday

- **PSV Mailing service:** Send emails to people who have their birthday
- **Fan:** Fan receives an email with the personalized video.
- **Fan:** opens the link
- **Prototype:** Search the video with the given group ID
- **PSV server:** acts as a landing page show video to fan.

