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**Evendo Software Ltd.**

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**Evendo  
Software Architecture Document**

**Version 1.0**

Evendo	Version: 1.0
Software Architecture Document	Date: 30.06.2020

## Revision History

Date	Version	Description	Author
02.12.2019	1.0	See new information on github	Niclas Schmuck
28.06.2020	1.1	Final Release of SAD	Marius Huber, Niclas Schmuck

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# Software Architecture Document

## 1. Introduction

Evendo is a tool to stay organized. We will provide an android app, which is connected to a backend service to sync your calendar entries and todo's as well as sharing your calendar to others.

### 1.1 Purpose

This document provides a comprehensive architectural overview of the system, using a number of different architectural views to depict different aspects of the system. It is intended to capture and convey the significant architectural decisions which have been made on the system.

### 1.2 Scope

This software architecture document gives you an overview about our used technologies to keep Evendo running.

### 1.3 Definitions, Acronyms, and Abbreviations

Backend : NodeJS driven HTTP Rest Services

Frontend: Kotlin driven Android App

### 1.4 References

You can find all relevant images which are not added in our SAD in our Evendo GitHub:

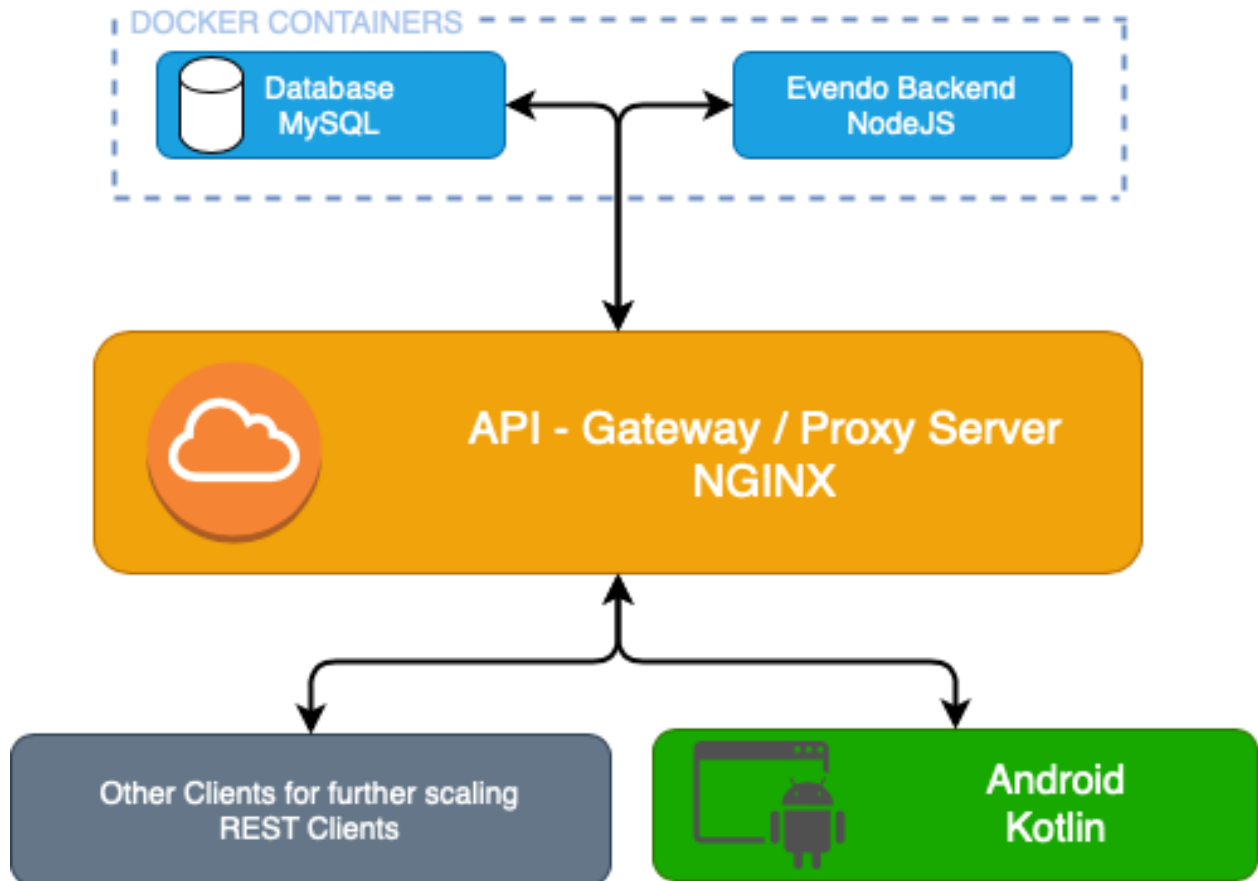
<https://github.com/gnaatz/evendo/tree/docu/doc>

### 1.5 Overview

In the following steps you will get known with our software architecture and we will show you how our app is communicating with our system.

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## 2. Architectural Representation



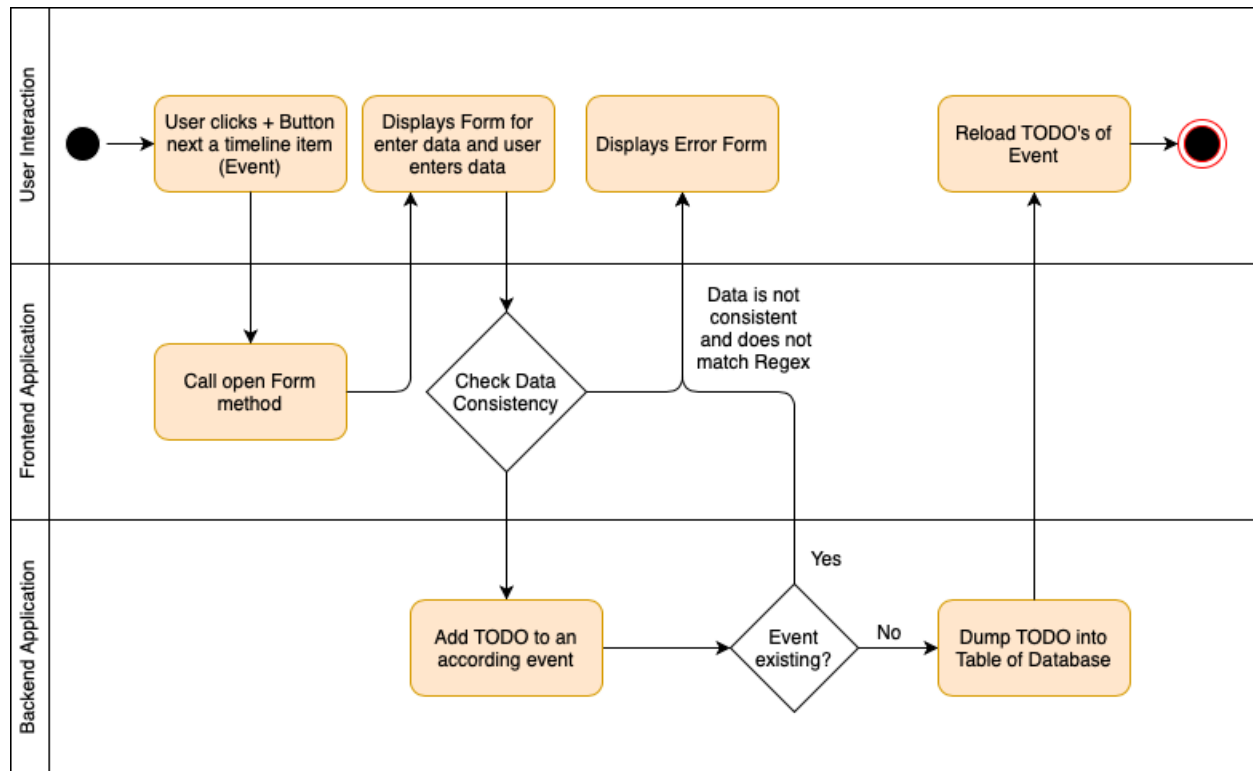
## 3. Architectural Goals and Constraints

- Our main goal is to keep our architecture fast working and safe. We will implement different changes every month to keep our app secured.
- We want to have a service level agreement to our customers with around 99,7% Uptime.
- If we can't keep this goal, we have to change hard or software.

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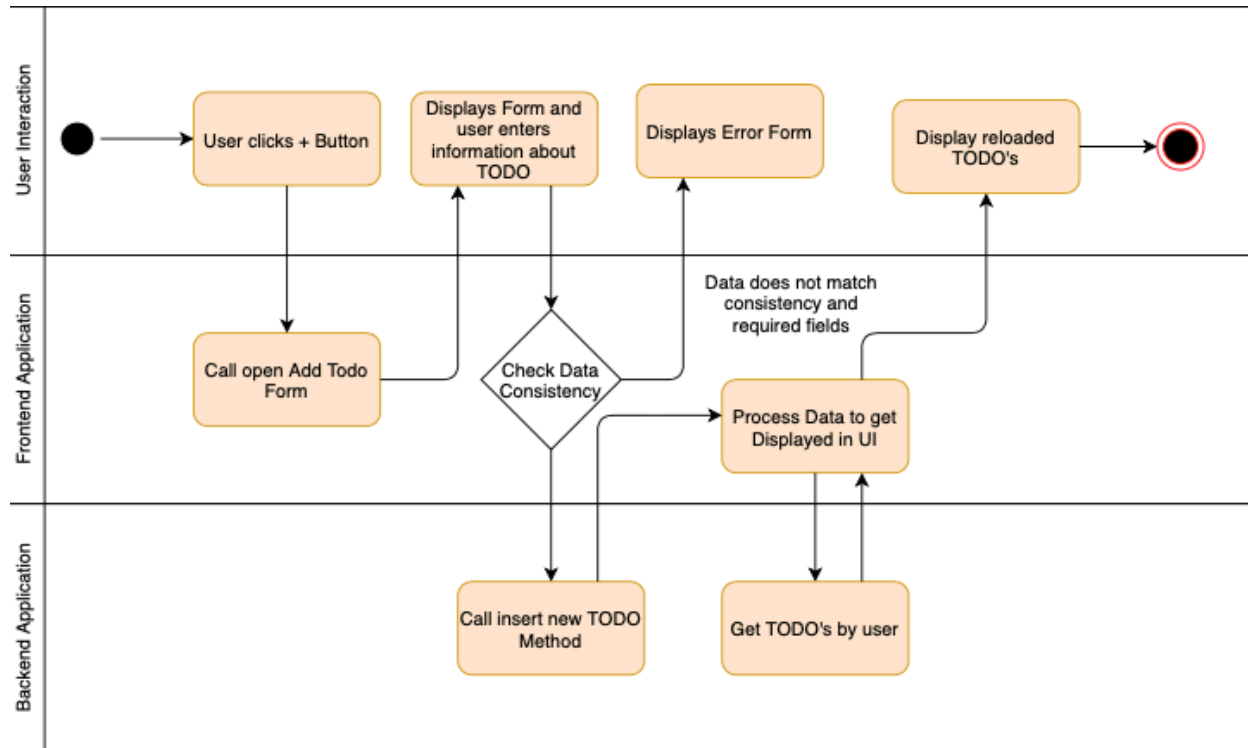
## 4. Use-Case View

This is our use case to create an event



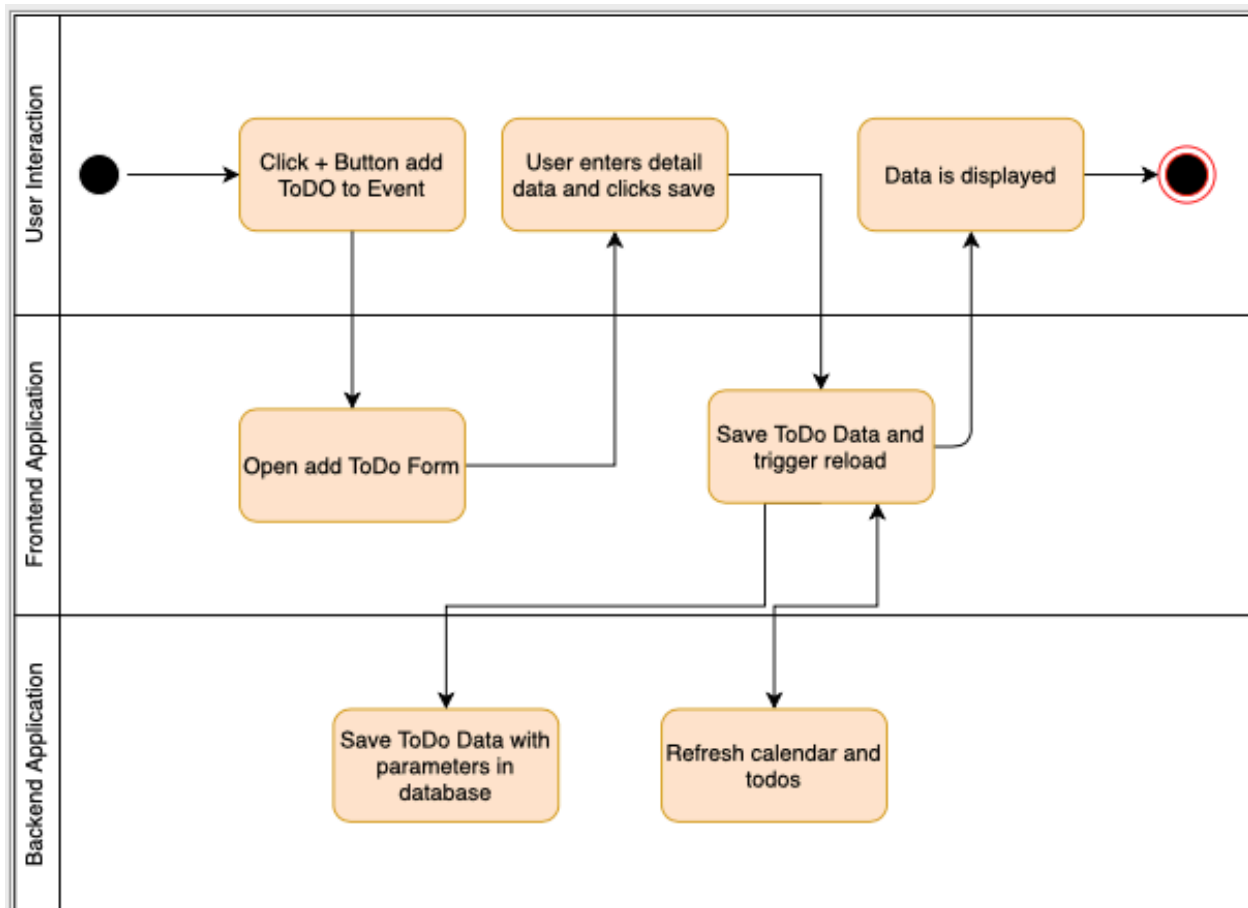
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The next Usecase is for creating and TODO:



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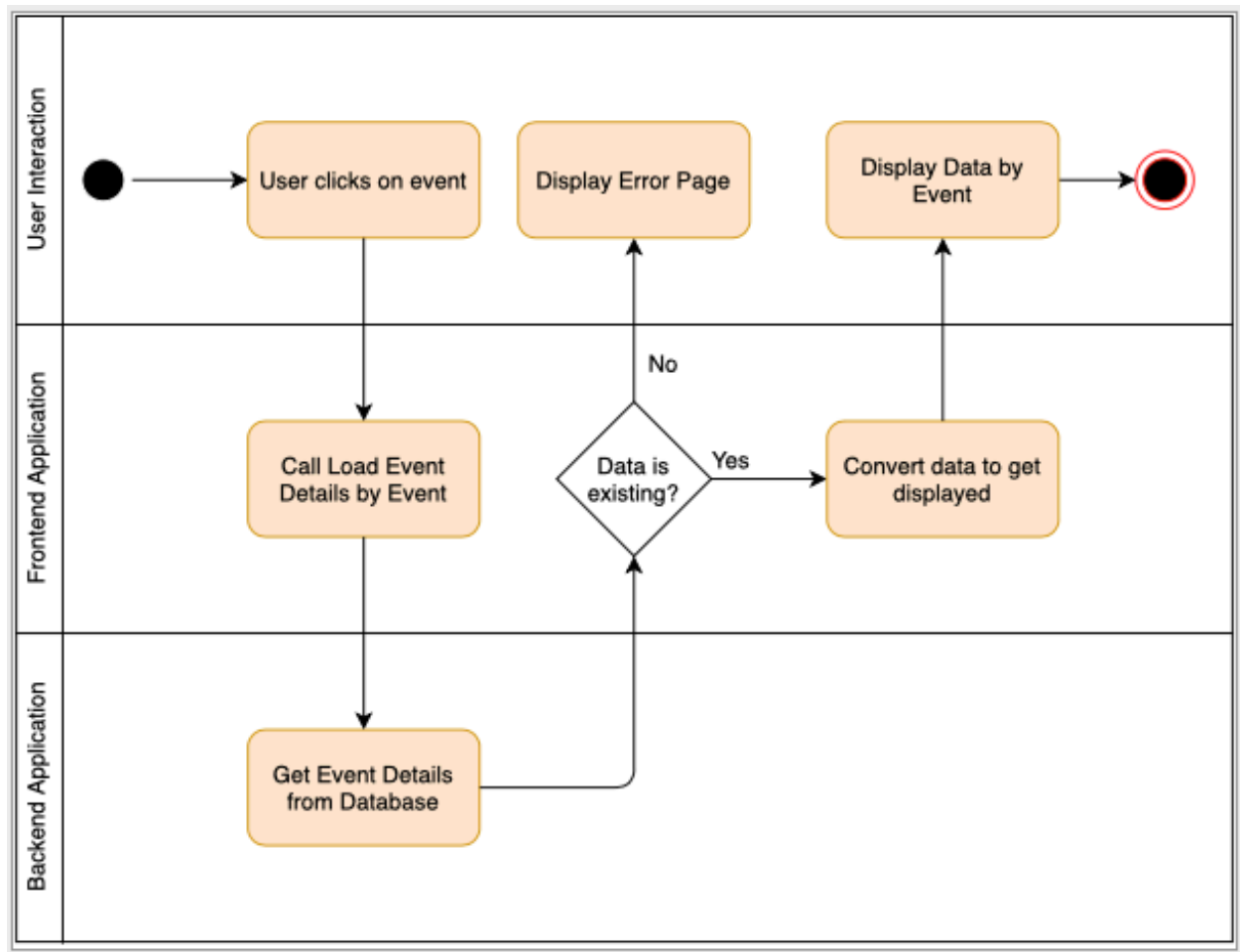
This one is about to create a TODO for an event:





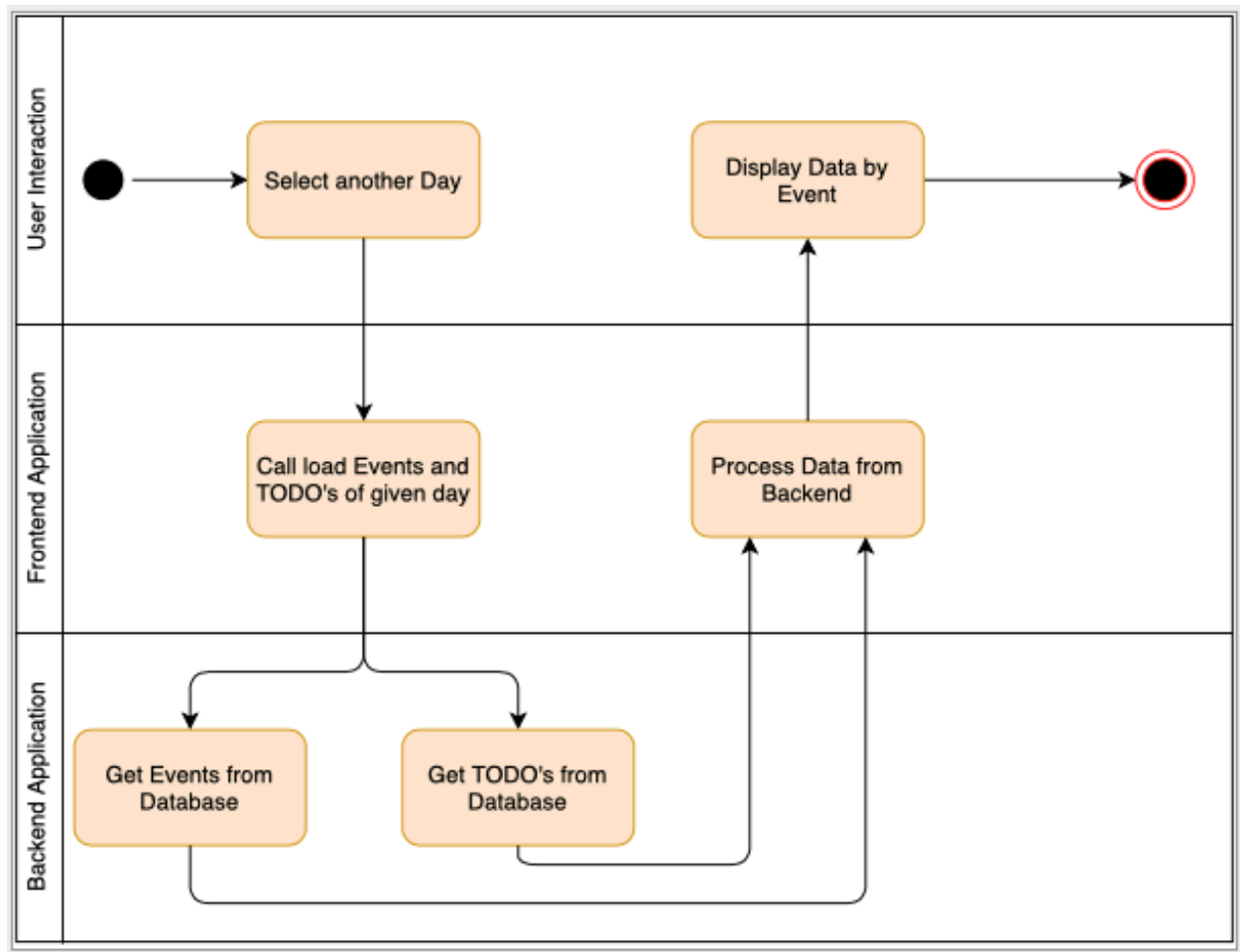
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This one is to show an event:



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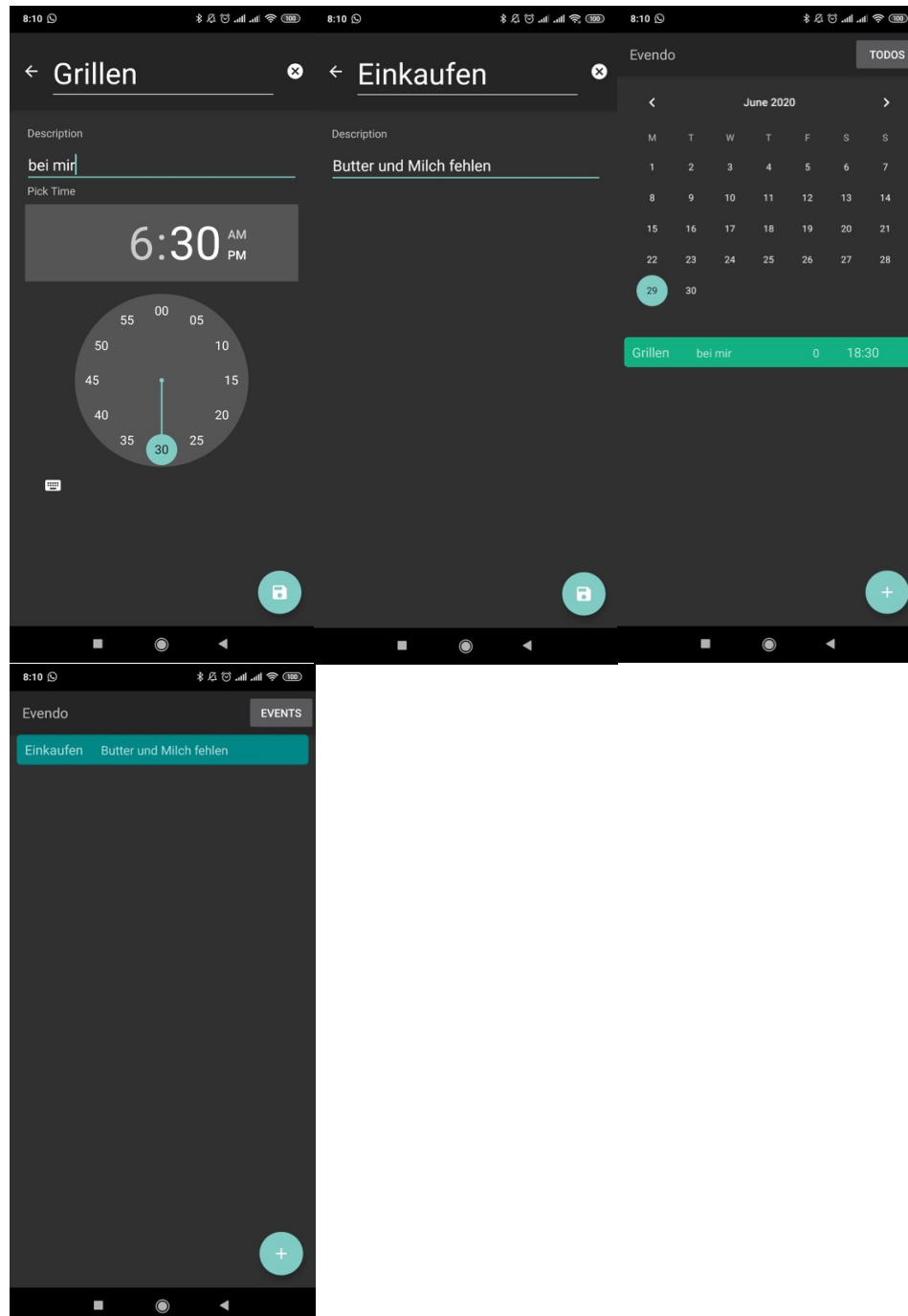
The last one is about to change the date:



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## 4.1 Use-Case Realizations

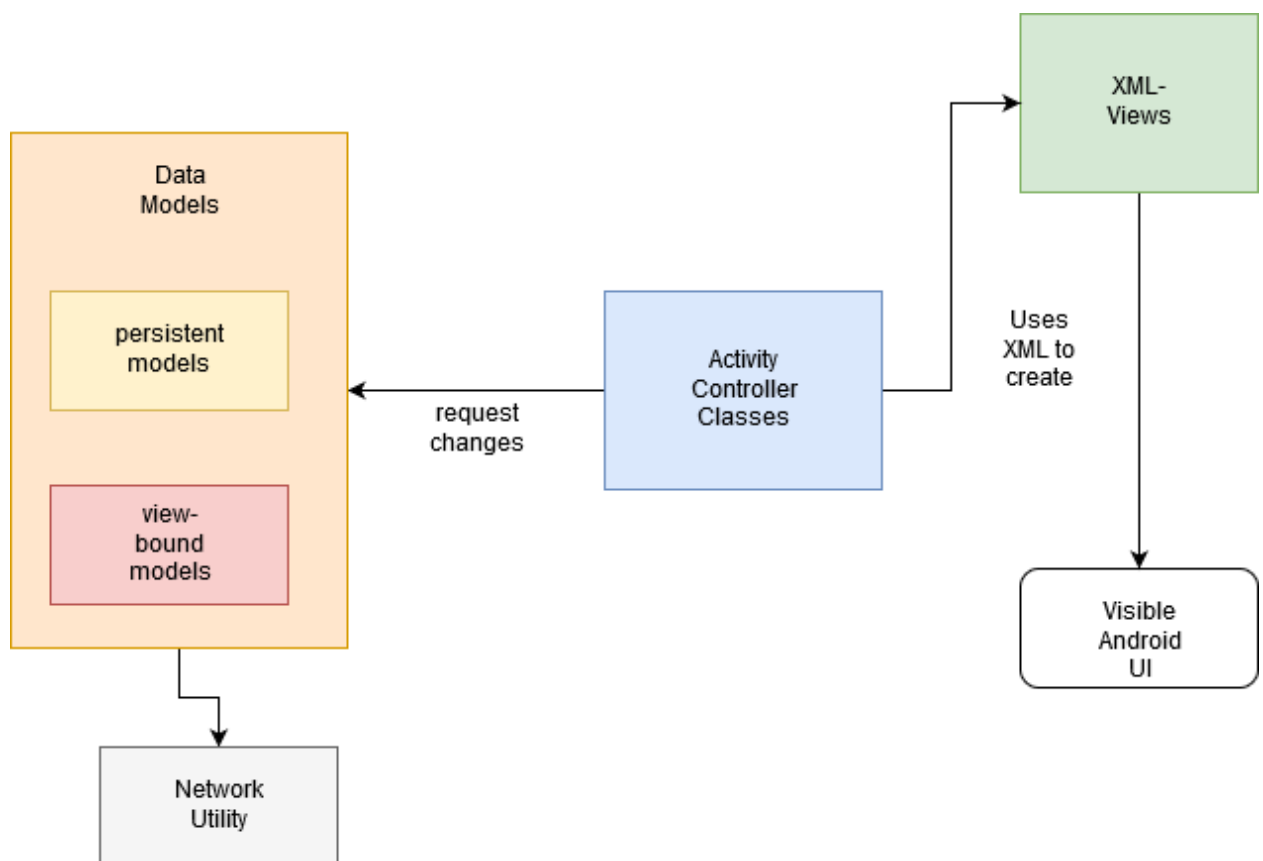
All our Usecases are currently implemented in our app. Have a look at it:



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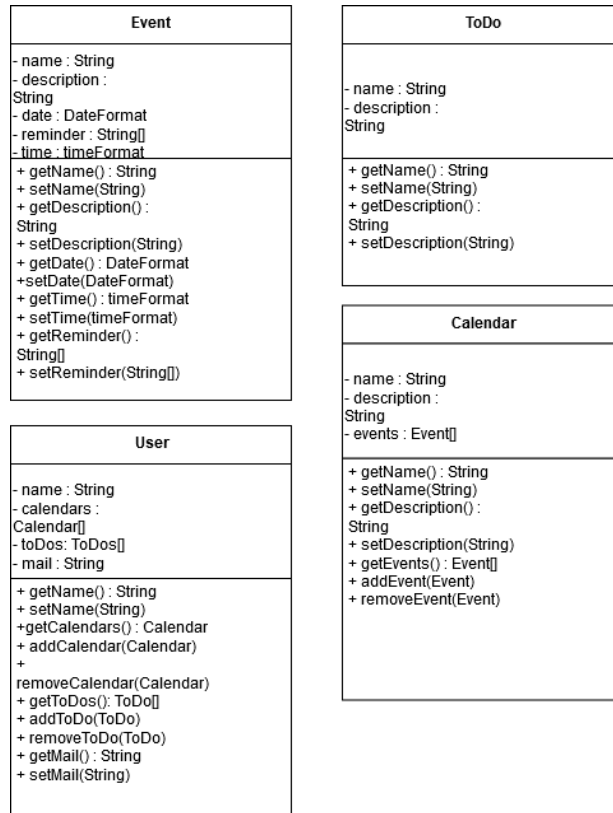
## 5. Logical View

### 5.1 Overview



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## 5.2 Architecturally Significant Design Packages



### 5.2.1 Overview

Because this image is so large we had to split it up into 4 Images, those should be read like a 400% width horizontal image. Otherwise please check our .svg in our Backend Repository:

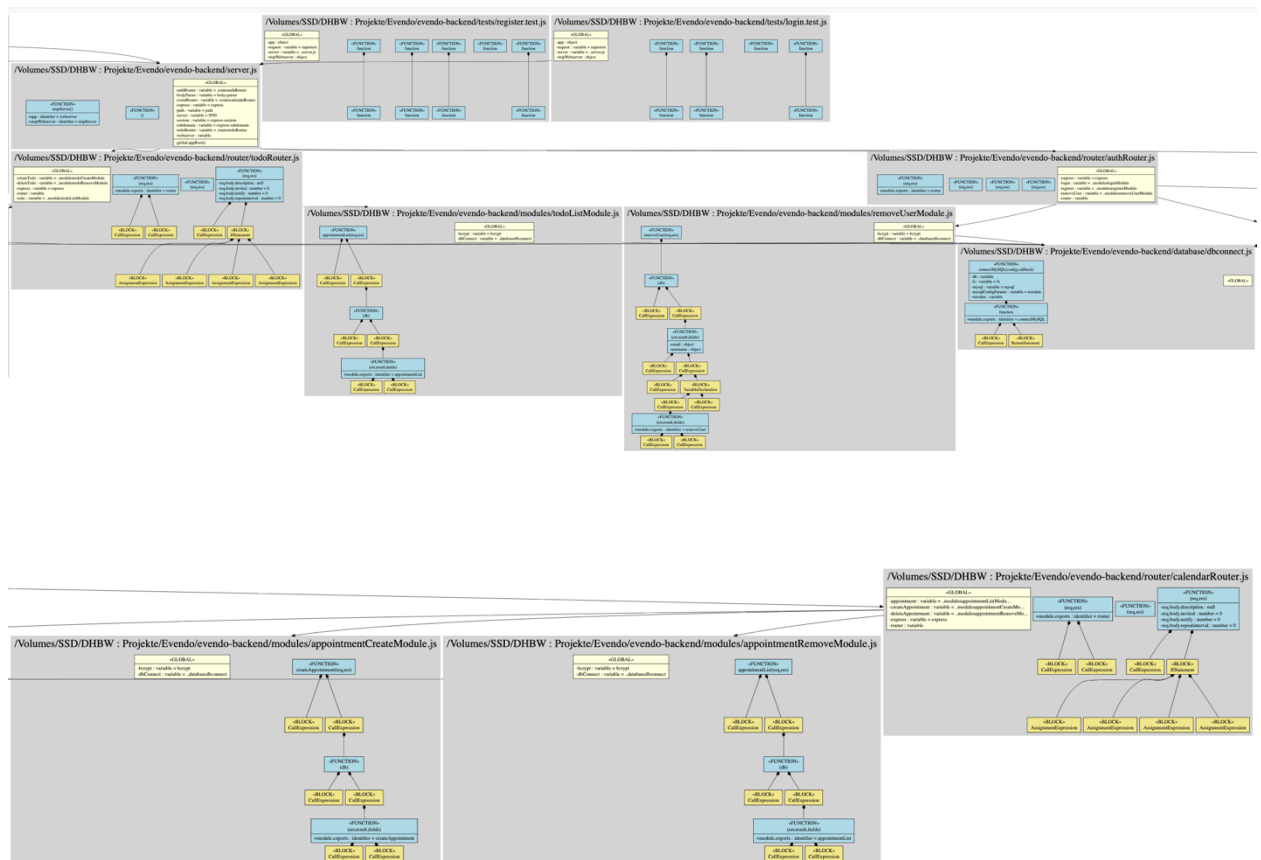
[https://raw.githubusercontent.com/NiclasSchmuck/evendo-backend/master/overall\\_diagram/struct.svg](https://raw.githubusercontent.com/NiclasSchmuck/evendo-backend/master/overall_diagram/struct.svg)

The following Overview is for the Backend:

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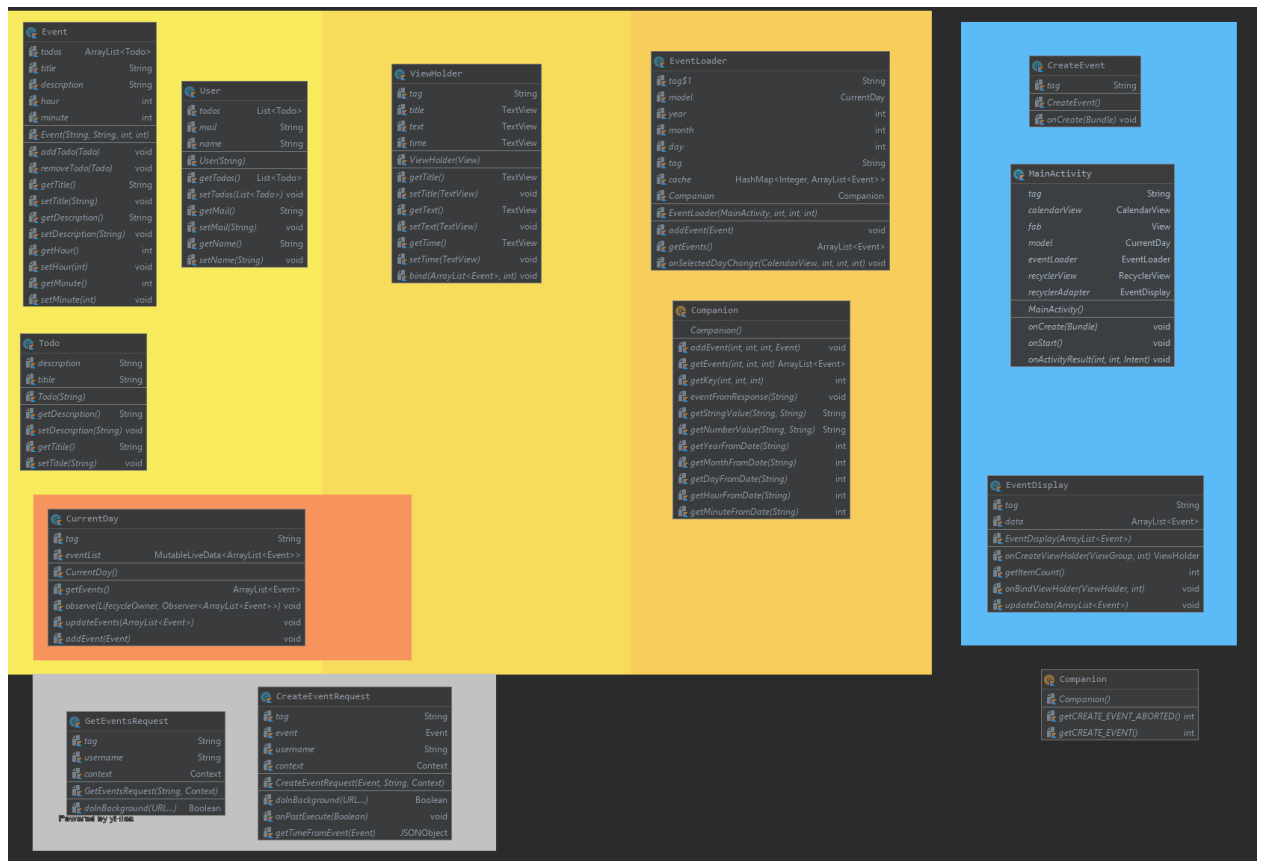


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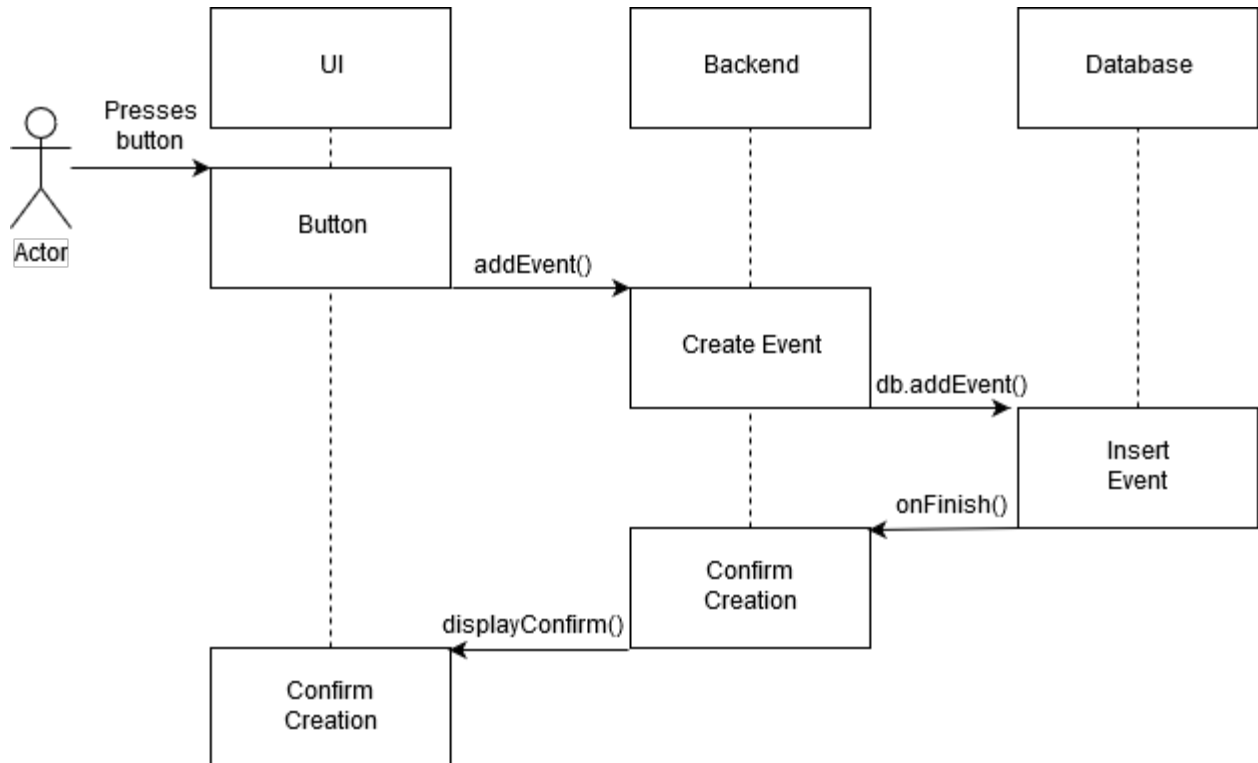
This overview is the class diagram of our Frontend app:



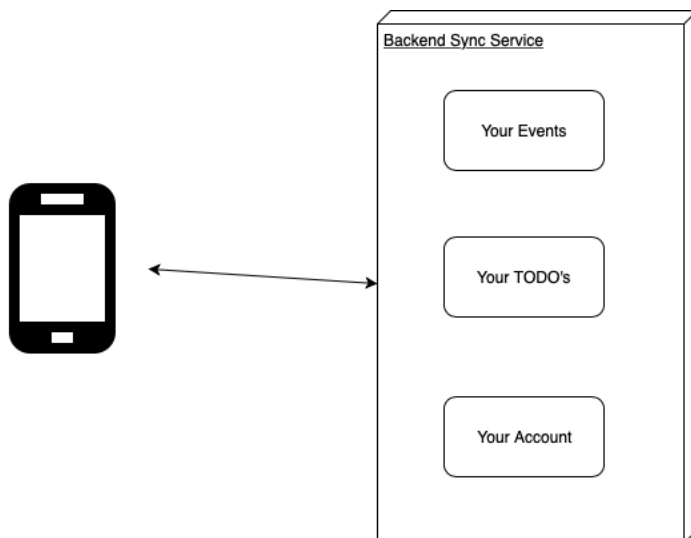


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## 6. Process View



## 7. Deployment View



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## 8. Size and Performance

The software should be scaleable up to 1000 parallel users watching, 100 users doing actions and up to half a million registered users.

Performance: Response Time should be lower than a second during 100% cpu usage.

## 9. Quality

The Software should look great, the design should be intuitive, and the user interaction should be great. From our point, the code design is important for further development. From those parameters we will extract our resulting quality.