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**Group 05**

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**muly**  
**Software Architecture Document**

**Version <1.2>**

<b>muly</b>	Version: <1.2>
Software Architecture Document	Date: <09/12/2022>
<document identifier>	

## Revision History

<b>Date</b>	<b>Version</b>	<b>Description</b>	<b>Author</b>
08/12/2022	<1.1>	Draw class and write report	<b>muly</b>
12/09/2022	<1.2>	Draw class and write report	<b>muly</b>

<b>muly</b>	Version: <1.2>
Software Architecture Document	Date: <09/12/2022>
<document identifier>	

## Table of Contents

<b>1. Introduction</b>	<b>4</b>
<b>2. Architectural Goals and Constraints</b>	<b>4</b>
<b>3. Use-Case Model</b>	<b>4</b>
<b>4. Logical View</b>	<b>5</b>
4.1 Component:	6
<b>5. Deployment View</b>	<b>7</b>
<b>6. Implementation View</b>	<b>7</b>
<b>7. Implementation View</b>	<b>7</b>
7.1 Front end:	7
7.2 Back end:	8

<b>muly</b>	Version: <1.2>
Software Architecture Document	Date: <09/12/2022>
<document identifier>	

# Software Architecture Document

## 1. Introduction

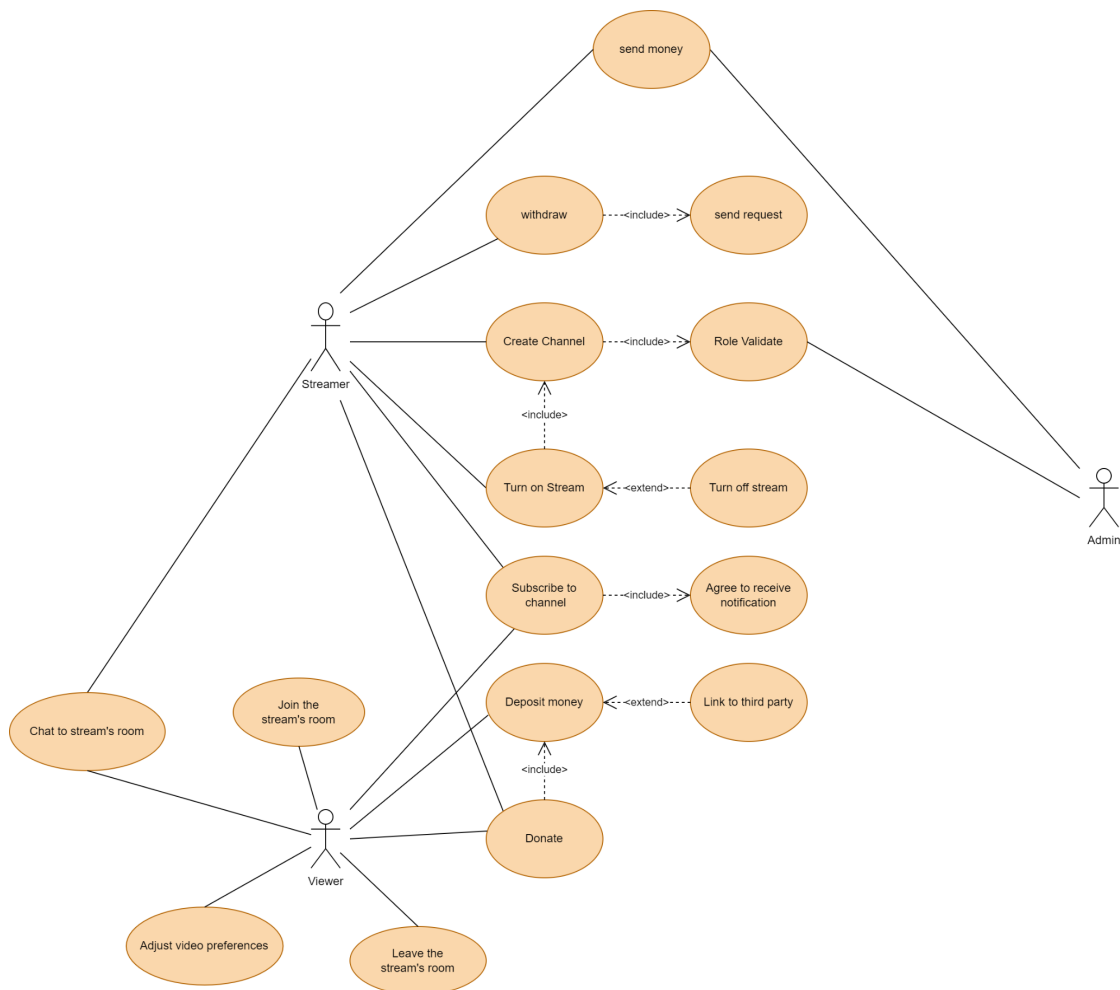
This Software Architecture Document provides an overview of the architecture of the **muly** website.

The document is intended to provide a comprehensive architectural overview of the system with different architectural views from different aspects of the system. Moreover, it conveys the significant decisions which have been made on the project.

## 2. Architectural Goals and Constraints

- Programming Language: Go (Back-end), JavaScript(Front-end).
- The application should run all current modern browsers.
- The application should support a minimum of 50 users at the same time watching one streaming session.
- Delay of streaming should not be higher than 5 minutes.

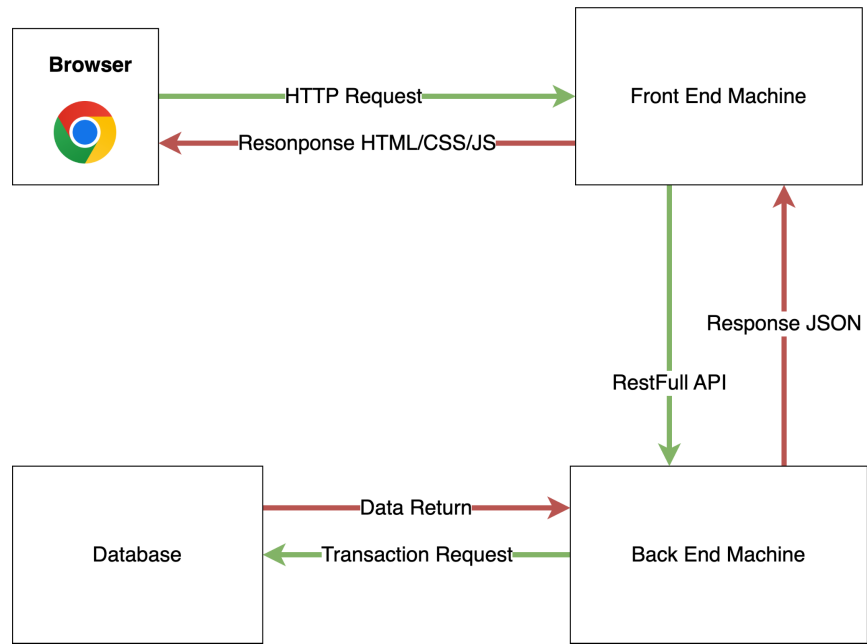
## 3. Use-Case Model



muly	Version: <1.2>
Software Architecture Document	Date: <09/12/2022>
<document identifier>	

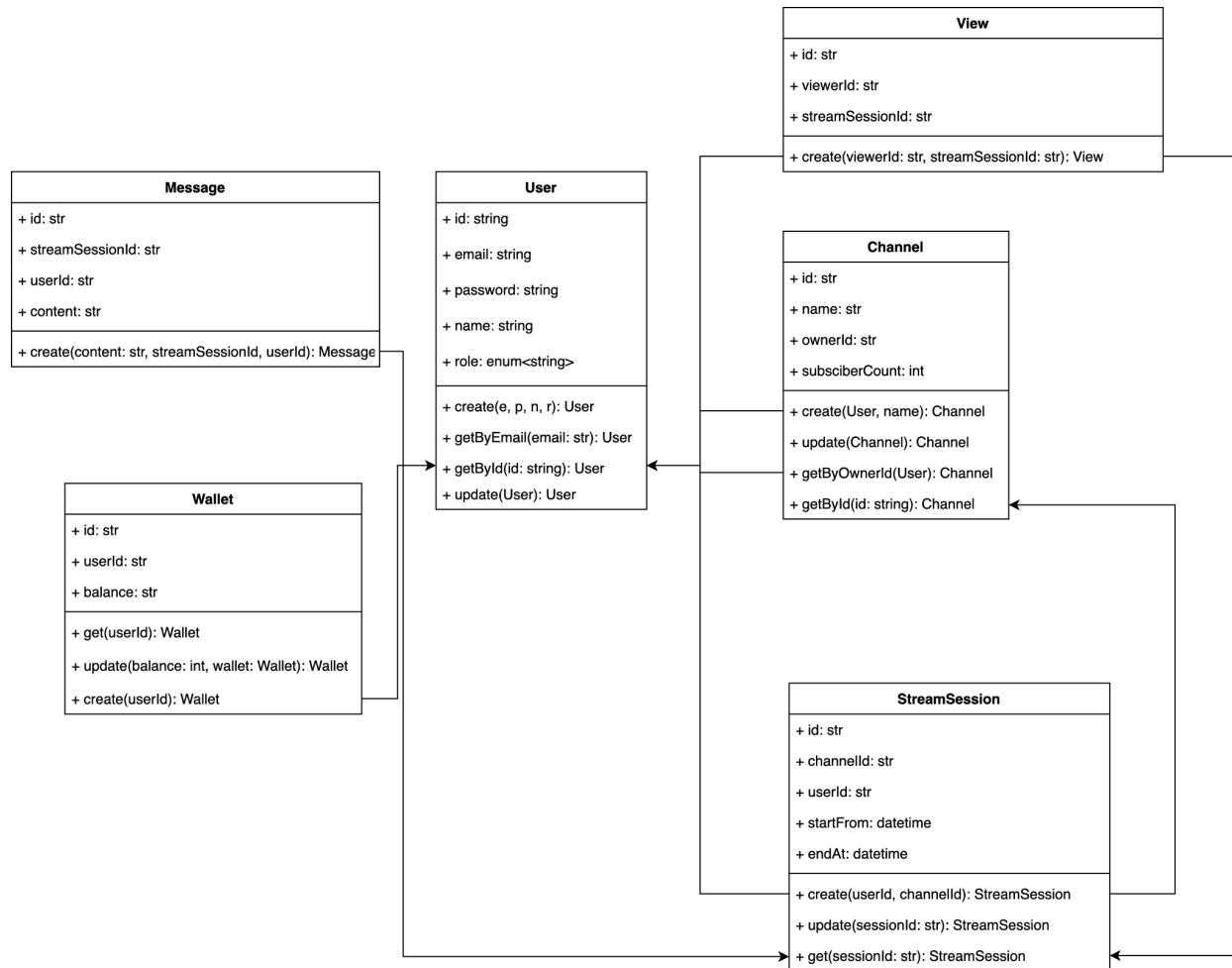
4. Logical View

Logical View



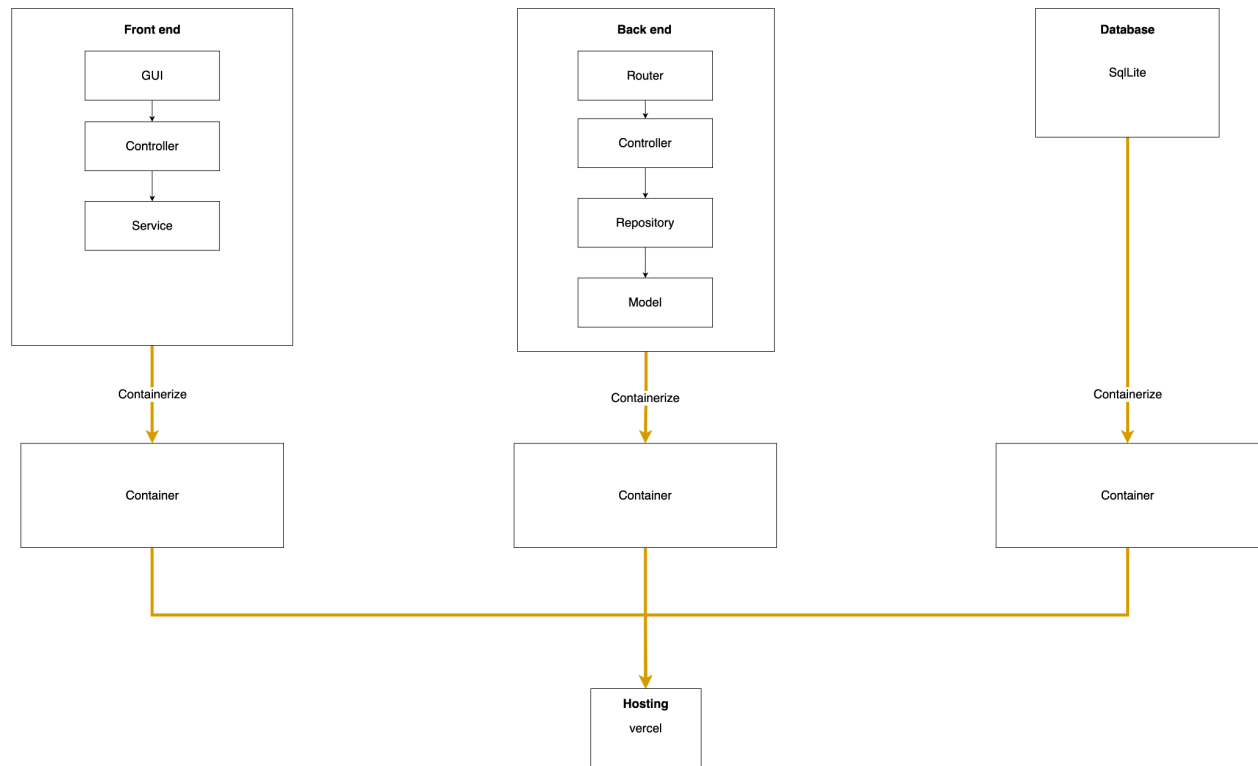
<b>muly</b>	Version: <1.2>
Software Architecture Document	Date: <09/12/2022>
<document identifier>	

#### 4.1 Component:



<b>muly</b>	Version: <1.2>
Software Architecture Document	Date: <09/12/2022>
<document identifier>	

## 5. Deployment View



The figure above shows the entire deployment view of **muly**:

- We containerize three sources front-end, back-end, and database into the container by docker.
- Deploy three sources into Vercel service with port 8080 for front-end and 3000 for back-end.
- Client sends a request to port 8080 to get HTML/CSS/JS and the front-end code will call port 3000 to execute server-side stuff.

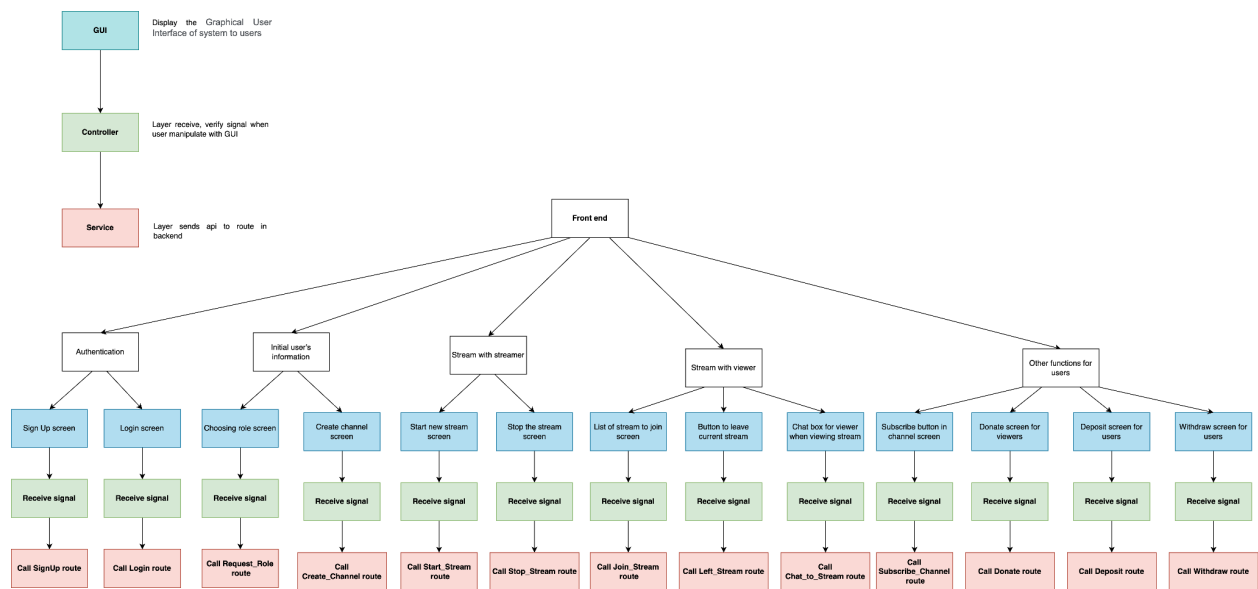
## 6. Implementation View

*[Leave this section blank for PA3.]*

## 7. Implementation View

### 7.1 Front end:

<b>muly</b>	Version: <1.2>
Software Architecture Document	Date: <09/12/2022>
<document identifier>	



## 7.2 Back end:

