

Full Stack Development

Base on Reference Data Model

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คำนำ

เอกสารฉบับนี้จัดทำขึ้นเพื่อให้คำแนะนำเกี่ยวกับการใช้งานและการติดตั้งแอปพลิเคชันที่พัฒนาขึ้นตามแนวคิด Party Model สำหรับการจัดการข้อมูลบุคคลและองค์กรในรูปแบบ Cloud Native Application เอกสารนี้เหมาะสมสำหรับ System Admin, Organization Admin, HR Admin, Organization User, Person User, และ Basetype Admin รวมถึงนักพัฒนาที่ต้องการทำความเข้าใจโครงสร้างและการทำงานของระบบ เนื้อหาครอบคลุมภาพรวมระบบ คู่มือการติดตั้ง และการใช้งานฟีเจอร์หลัก เพื่อให้ผู้ใช้สามารถเริ่มต้นใช้งานได้อย่างราบรื่น

ภาพรวมระบบ

แอปพลิเคชันนี้เป็น Cloud Native Application ที่พัฒนาตามแนวคิด Party Model อ้างอิงจาก *Party Model Resource Book Vol 1* โดยมีเป้าหมายเพื่อจัดการข้อมูลบุคคลและองค์กรอย่างมีประสิทธิภาพ รองรับการทำงานแบบ CRUD ใน 3 เลเยอร์หลัก:

- Base Layer: จัดการข้อมูลพื้นฐาน เช่น บุคคล องค์กร และประเภทข้อมูล (เช่น country, gender_type)
- Information Layer: จัดการรายละเอียดของบุคคลและองค์กร เช่น gender, marital status, industry
- Communication Layer: บันทึกและจัดการการสื่อสารระหว่างบุคคลและองค์กร

คุณสมบัติเด่น:

- Authentication: รองรับ JWT และ OAuth 2.0 โดยเก็บ token ใน cookie เพื่อความปลอดภัย
- Database Design: ใช้ Single Table Inheritance รวมข้อมูลในตาราง users, Denormalized Design เพื่อลดความซับซ้อน, และ Audit Logging เพื่อติดตามการเปลี่ยนแปลง
- Architecture: พัฒนาแบบ MVC without View Model ใช้ FastAPI สำหรับ backend, React TypeScript (Vite, SWC) สำหรับ frontend และ PostgreSQL เป็น database
- Cloud Native: รันบน Docker Compose เพื่อความยืดหยุ่นและ scalability
- ฟีเจอร์: รองรับการ login, การจัดการ account, การบันทึกการสื่อสาร, ฟีเจอร์ star และ filter การสื่อสารขาเข้า-ขาออก

ระบบออกแบบมาให้ใช้งานง่าย มีความปลอดภัย และเหมาะสมกับการใช้งานในระดับองค์กร

คู่มือการติดตั้ง

ความต้องการของระบบ

- **Docker:** ติดตั้ง Docker และ Docker Compose เพื่อรันแอปพลิเคชัน

ขั้นตอนการติดตั้ง

1. ตั้งค่าการกำหนดค่า:

- แก้ไขไฟล์การตั้งค่าที่ backend/app/config/settings.py เพื่อกำหนดค่าความปลอดภัย เช่น environment variables สำหรับ **JWT secret** และ **database connection**

2. รันแอปพลิเคชัน:

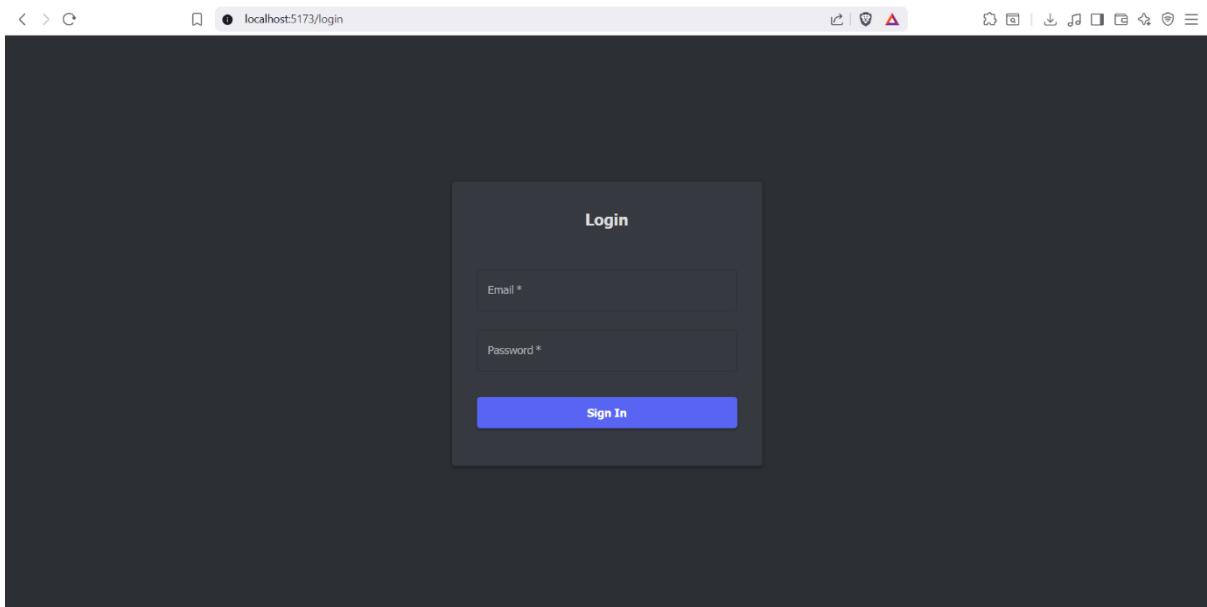
- เปิด terminal และไปที่ root directory ของโปรเจกต์
- รันคำสั่ง:

```
docker compose up -d --build
```

3. เข้าสู่แอปพลิเคชัน:

- เปิด browser และไปที่ localhost:5173 เพื่อใช้งาน frontend
- ระบบจะใช้ **JWT bearer** และ **OAuth 2.0** ในการ authenticate ทุก request ที่ต้องการการยืนยันตัวตน

Page List



001_login

A screenshot of a web application interface. On the left is a vertical sidebar with a blue header and a globe icon. Below the header, there are five menu items: "Profile", "Settings", "About", "Database", and "Tutorial", each with an associated icon. The main content area has a dark background. At the top, it says "System Admin Dashboard" and "Manage all admin roles and organizational data". Below this, there are five cards with icons and labels: "Manage User" (person icon), "Users Log" (person icon), "Persons Log" (two people shaking hands icon), "Organizations Log" (people in a circle icon), and "Communication Events Log" (people in a meeting icon).

002_sysadmin_home

A screenshot of a web application interface titled "System Admin Profile". The main content area is a dark gray box containing the word "Profile" in large white font. Below it, several user details are listed in white text: ID: 1, Username: sysadmin1, Email: sysadmin1@gmail.com, Role: system_admin, Created At: 04/09/2025 15:02:00, and Updated At: N/A. At the bottom right of this box are two buttons: a blue "Home" button and a red "Logout" button. The browser's address bar at the top shows "localhost:5173/profiles/system-admin". The overall theme is a dark mode UI.

003_sysadmin_profile

localhost:5173/users

Users

All Users

Actions	ID	Username	Email	Role	Created At	Updated At
	1	sysadmin1	sysadmin1@gmail.com	system_admin	04/09/2025 15:02:00	N/A
	2	sysadmin2	sysadmin2@gmail.com	system_admin	04/09/2025 15:02:00	N/A
	3	baseadmin1	baseadmin1@gmail.com	base_type_admin	04/09/2025 15:02:00	N/A
	4	baseadmin2	baseadmin2@gmail.com	base_type_admin	04/09/2025 15:02:00	N/A
	5	hradmin1	hradmin1@gmail.com	hr_admin	04/09/2025 15:02:00	N/A
	6	hradmin2	hradmin2@gmail.com	hr_admin	04/09/2025 15:02:00	N/A
	7	orgadmin1	orgadmin1@gmail.com	organization_admin	04/09/2025 15:02:00	N/A
	8	orgadmin2	orgadmin2@gmail.com	organization_admin	04/09/2025 15:02:00	N/A

Rows per page: 10 < > 1-8 of 8

004_manage_user

A screenshot of a web browser window titled "Create User". The URL in the address bar is "localhost:5173/users/create". The main content area has a dark background and displays a "Create New User" form. The form includes fields for "Username", "Email", and "Password", and a dropdown menu for "Role" set to "system_admin". At the bottom right of the form are three buttons: a red "X", a blue trash can icon, and a blue save/cancel icon.

005_create_user

A screenshot of a web browser window titled "User Detail". The URL in the address bar is "localhost:5173/users/1". The main content area has a dark background and displays an "Edit User" form. The form includes fields for "ID" (set to 1), "Username" (set to "sysadmin1"), "Email" (set to "sysadmin1@gmail.com"), and "Password". The "Role" field is also present. At the bottom right of the form are three buttons: a red "X", a red trash can icon, and a blue save/cancel icon.

006_user_detail

User History							
ID	User ID	Username	Email	Role	Action	Action At	Action By
1	1	sysadmin1	sysadmin1@gmail.com	system_admin	update	17/09/2025 15:13:20	1

Rows per page: 10 < > 1-1 of 1

007_user_log

Person History							
ID	Person ID	Personal ID	First Name	Middle Name	Last Name	Nick Name	Birth Date
No rows							

Rows per page: 10 < > 0-0 of 0

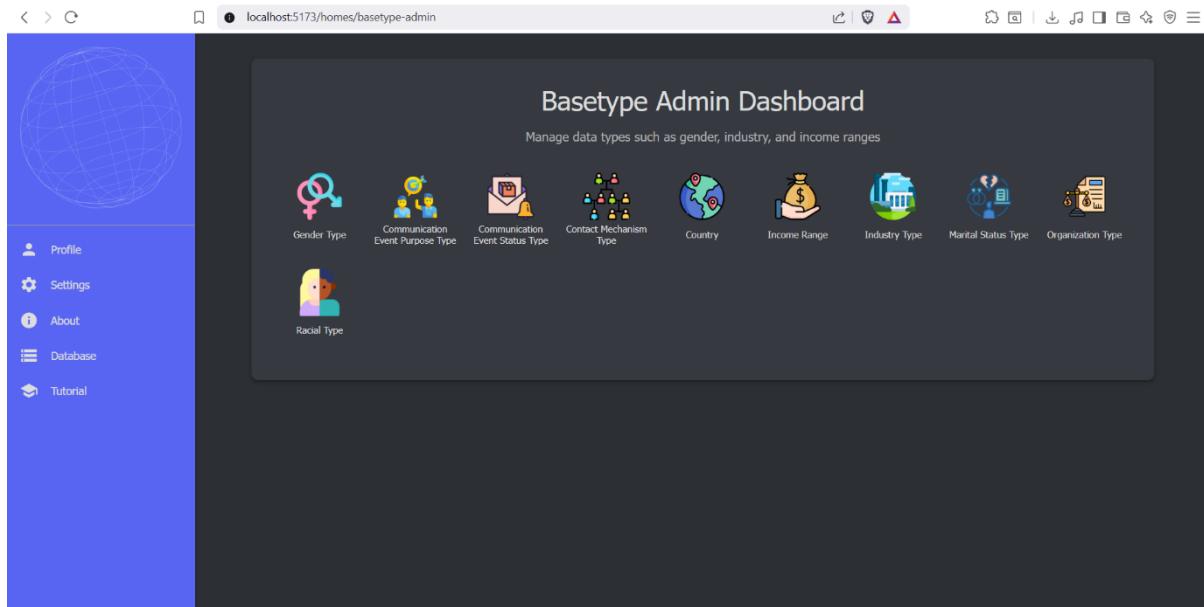
008_person_log

ID	Organization ID	Federal Tax ID	Name (EN)	Name (TH)	Organization Type	Industry Type	Employee Count	Slogan
No rows								

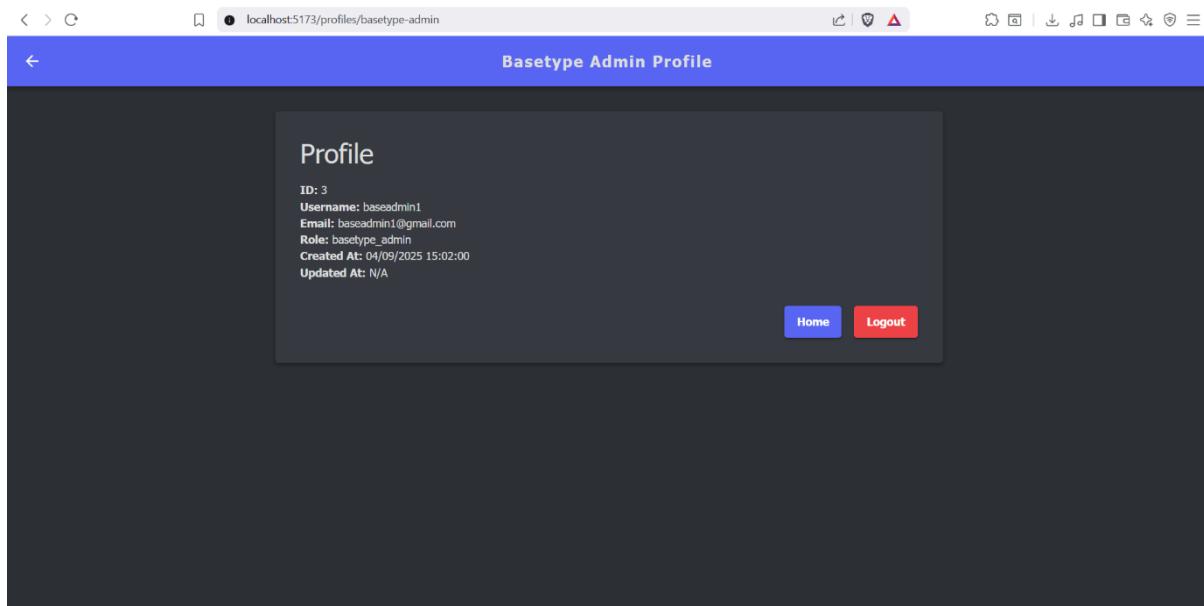
009_organization_log

ID	Event ID	Title	Detail	From User ID	From User	To User ID
18	3	Order Confirmation	Order #1234 confirmed	10	10 - Global Trade Connecting the World (Organization)	14
17	3	Order Confirmation	Order #1234 confirmed	10	10 - Global Trade Connecting the World (Organization)	14
16	2	Complaint	Issue with product delivery	14	14 - John Doe Software engineer with a passion for...	15
15	2	Complaint	Issue with product delivery	14	14 - John Doe Software engineer with a passion for...	15
14	1	Project Inquiry	Discussing new software project	9	9 - TechCorp Innovate the Future (Organization)	14
13	1	Project Inquiry	Discussing new software project	9	9 - TechCorp Innovate the Future (Organization)	14
12	1	Project Inquiry	Discussing new software project	9	9 - TechCorp Innovate the Future (Organization)	14
11	1	Project Inquiry	Discussing new software project	9	9 - TechCorp Innovate the Future (Organization)	14
10	4	Meeting Request	Schedule a consultation	15	15 - Jane Smith Marketing specialist who loves tra...	9

010_communication_event_log



011_basetype_admin_home



012_basetype_admin_profile

Gender Types		
All Gender Types		
Actions	ID	Description
	1	Male
	2	Female
	3	Other

013_gender_type

localhost:5173/gender-type/create

Create Gender Type

Create New Gender Type

Description

014_create_gender_type

A screenshot of a web browser showing a modal dialog titled "Edit Gender Type". The dialog contains two input fields: "ID" with the value "1" and "Description" with the value "Male". At the bottom right of the dialog are three buttons: a red "X" button, a red trash can icon button, and a blue save icon button.

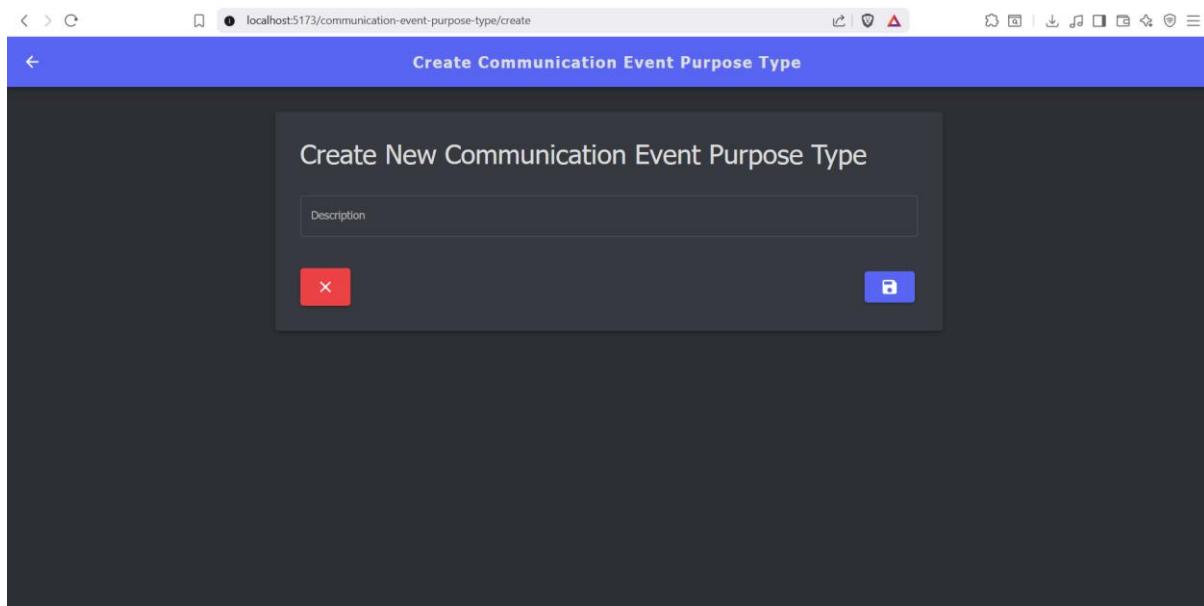
015_gender_type_detail

A screenshot of a web browser showing a list of communication event purpose types. The title bar says "Communication Event Purpose Types". Below it is a table with the following data:

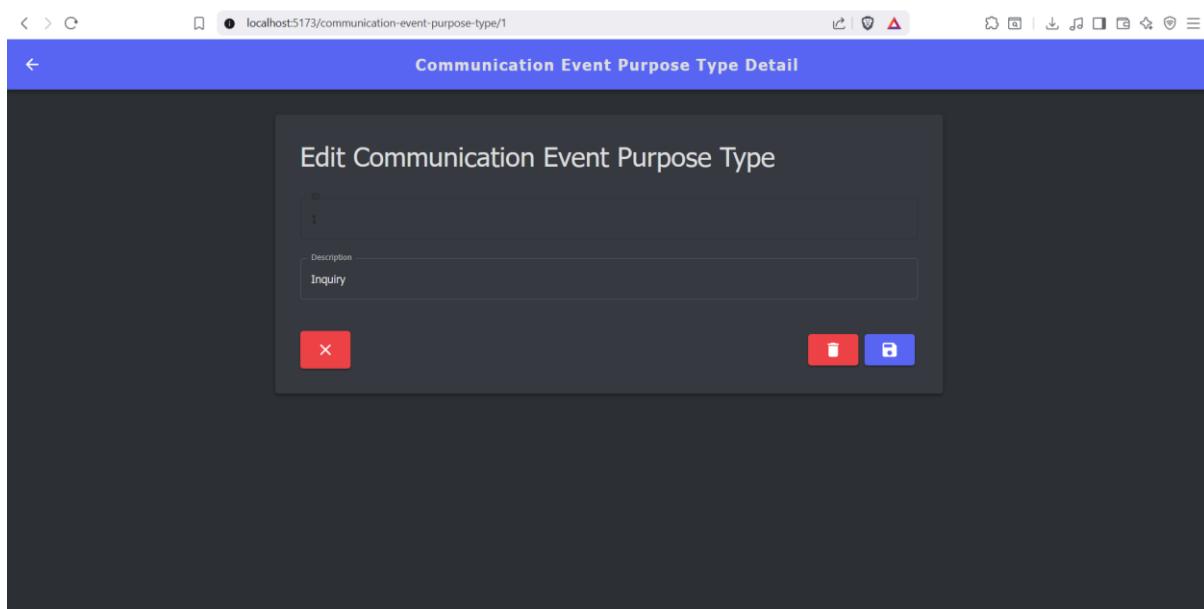
All Communication Event Purpose Types		
Actions	ID	Description
	1	Inquiry
	2	Complaint
	3	Order
	4	Appointment

At the bottom right of the table, there are pagination controls: "Rows per page: 10", "1-4 of 4", and navigation arrows.

016_manage_communication_event_purpose



017_create_communication_event_purpose



018_communication_event_purpose_detail

localhost:5173/communication-event-status-type

All Communication Event Status Types		
Actions	ID	Description
	1	Pending
	2	In Progress
	3	Completed
	4	Cancelled

Rows per page: 10 | 1-4 of 4 < >

019_manage_communication_event_status_type

localhost:5173/communication-event-status-type/create

Create Communication Event Status Type

Create New Communication Event Status Type

Description

X

020_create_communication_event_status_type

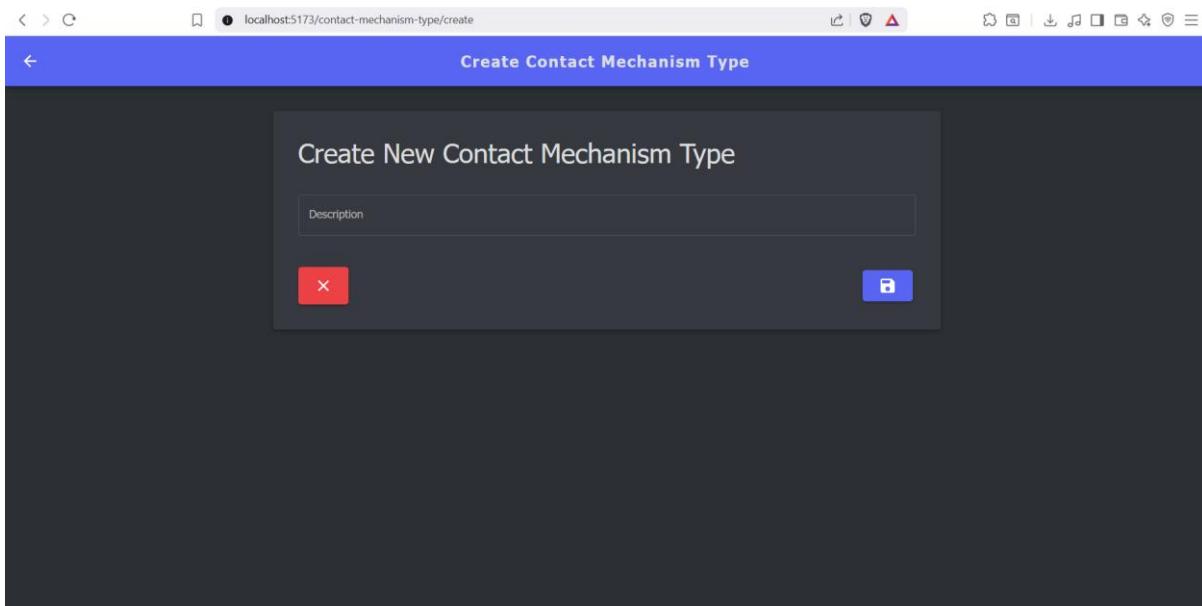
A screenshot of a web browser window showing a modal dialog titled "Edit Communication Event Status Type". The dialog contains two input fields: "ID" with the value "1" and "Description" with the value "Pending". At the bottom right of the dialog are three buttons: a red "X" button, a red trash can button, and a blue save/cancel button.

021_communication_event_status_type_detail

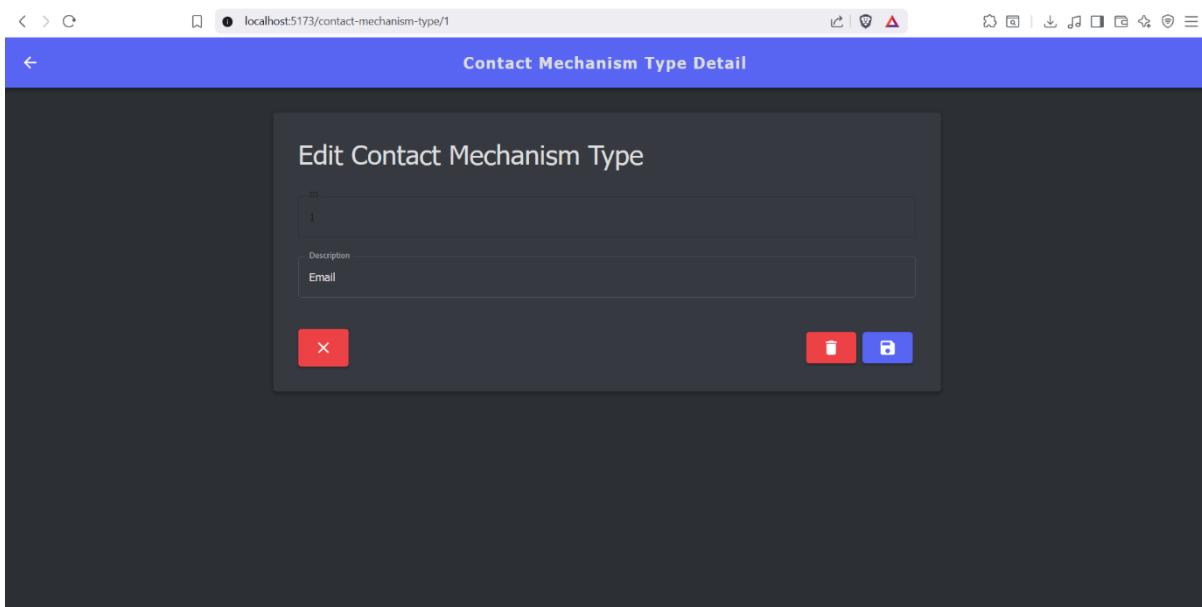
A screenshot of a web browser window showing a table titled "All Contact Mechanism Types". The table has columns for "Actions", "ID", and "Description". There are five rows of data:

Actions	ID	Description
	1	Email
	2	Phone
	3	Address
	4	Social Media
	5	On Site

022_contactmechanism_type



023_create_contact_mechanism



024_contact_mechanism_detail

All Countries

Actions	ID	ISO Code	Name (EN)	Name (TH)
	1	AF	Afghanistan	อัฟกานิสถาน
	2	AX	Åland Islands	หมู่เกาะอัลนด์
	3	AL	Albania	แอลเบเนีย
	4	DZ	Algeria	อาลเจเรีย
	5	AS	American Samoa	อเมริกัน萨摩亚
	6	AD	Andorra	อันเดอร์รา
	7	AO	Angola	אנג골า
	8	AI	Anguilla	องกุลล่า
	9	AQ	Antarctica	แอนตาร์กติกา
	10	AG	Angebots und Bedarfs	...

Rows per page: 10 1-10 of 249 < >

025_country

Create Country

Create New Country

ISO Code
Name (EN)
Name (TH)

026_create_country

localhost:5173/country/1

Country Detail

Edit Country

ID	1
ISO Code	AF
Name (EN)	Afghanistan
Name (TH)	อัฟกานิสถาน

X trash icon checkmark icon

027_country_detail

localhost:5173/income-range

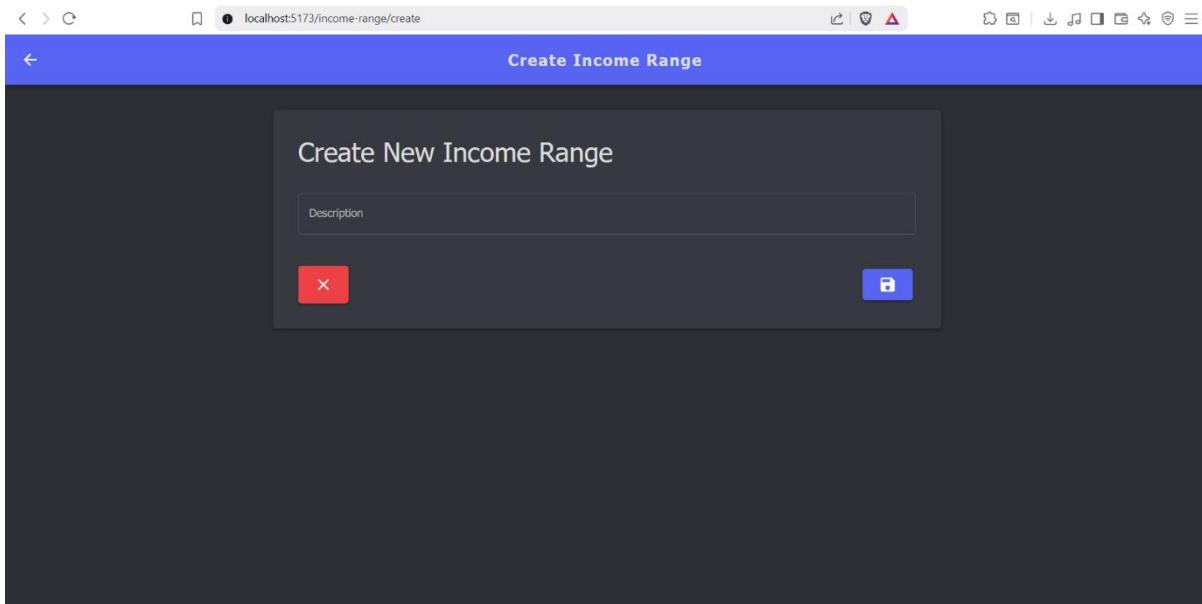
Income Ranges

All Income Ranges

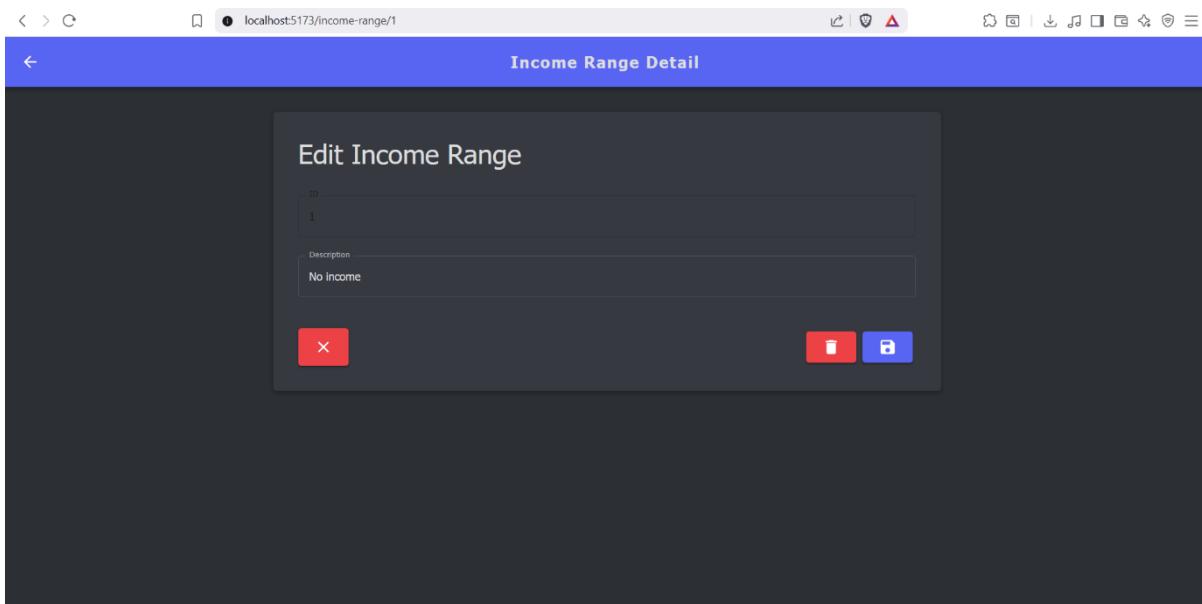
Actions	ID	Description
	1	No income
	2	Below 99 USD/month
	3	100 - 999 USD/month
	4	1000 - 4999 USD/month
	5	5000 - 10000 USD/month
	6	Above 10000 USD/month

Rows per page: 10 | 1-6 of 6

028_income_range



029_create_income_range



030_income_range_detail

All Industry Types				+
Actions	ID	NAISC	Description	
	1	111110	Soybean Farming	
	2	111120	Oilseed (except Soybean) Farmi...	
	3	111130	Dry Pea and Bean Farming	
	4	111140	Wheat Farming	
	5	111150	Corn Farming	
	6	111160	Rice Farming	
	7	111191	Oilseed and Grain Combination ...	
	8	111199	All Other Grain Farming	
	9	111211	Potato Farming	
	10	111210	Otber Miscellaneous Lassonant D...	

031_industry_type

Create Industry Type	
Create New Industry Type	
<input type="text" value="NAISC"/>	
<input type="text" value="Description"/>	
	

032_create_industry_type

localhost:5173/industry-type/1

Industry Type Detail

Edit Industry Type

ID	1
NAISC	111110
Description	Soybean Farming

X Save Refresh

033_industry_type_detail

localhost:5173/marital-status-type

Marital Status Types

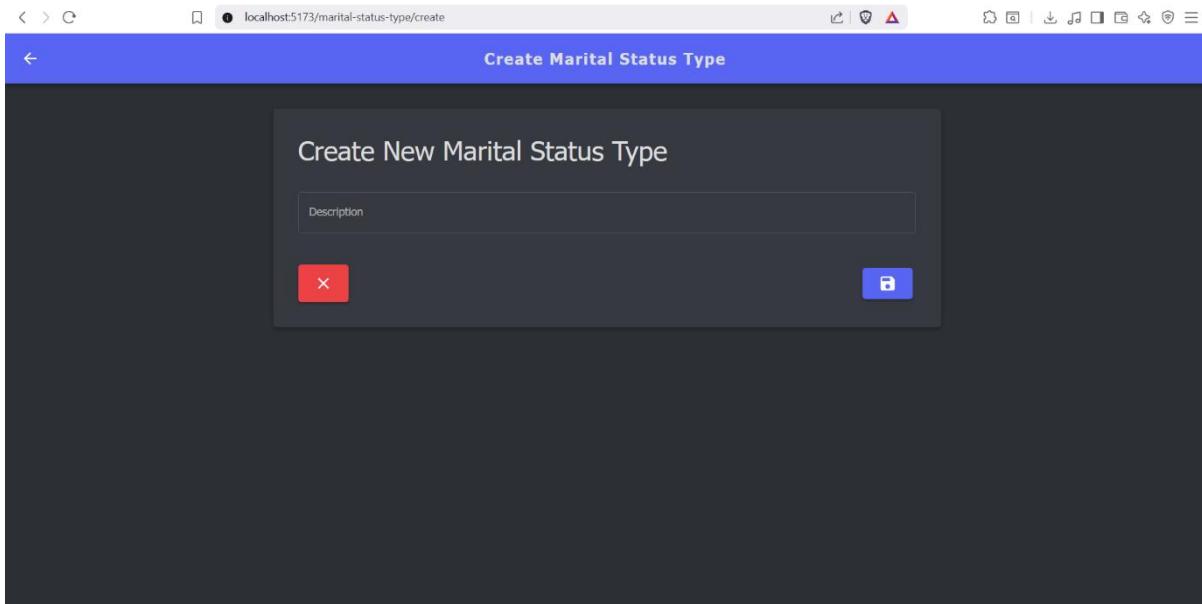
All Marital Status Types

+

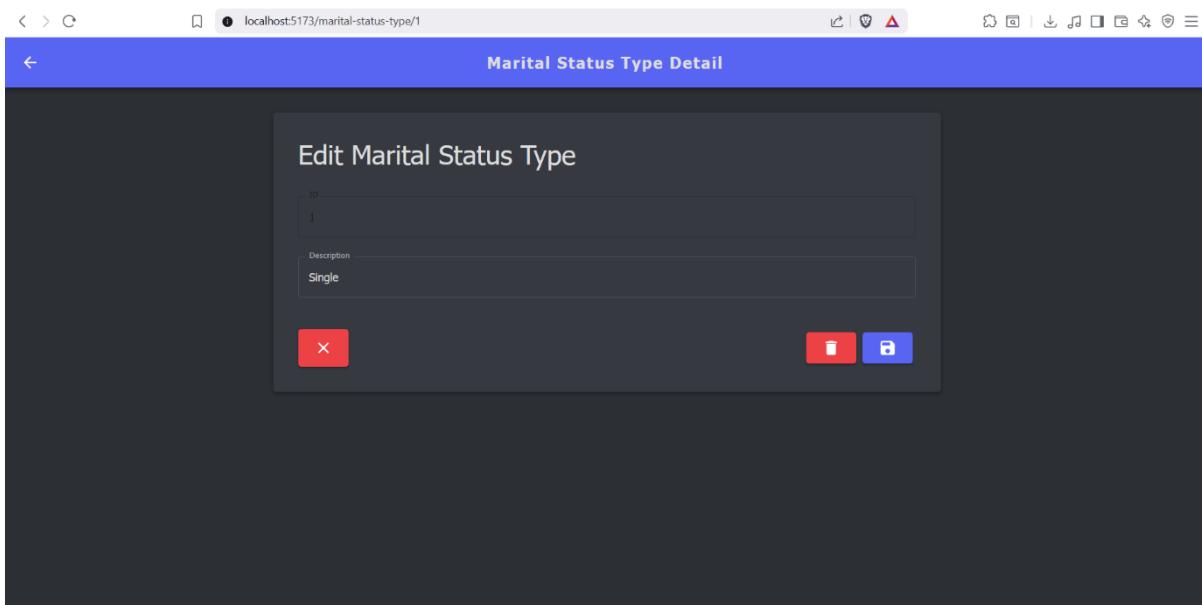
Actions	ID	Description
Edit	1	Single
Edit	2	Married
Edit	3	Divorced
Edit	4	Widowed
Edit	5	Separated
Edit	6	Other

Rows per page: 10 ▾ 1-6 of 6 < >

034_marital_status_type



035_create_marital_status_type



036_marital_status_type_detail

All Organization Types

Actions	ID	Description
	1	Limited Company (ມີສັນຕິພາບ)
	2	Public Limited Company (ມີສັນຕິພາບ...)
	3	Limited Partnership (ໜ້າທຳມະນຸ...
	4	Registered Ordinary Partnership...
	5	State Enterprise (ສະຕິເອກະລິດ)
	6	Non-Profit Organization (ອະນຸຍາ...
	7	Cooperative (ມຽນແຕ)
	8	Association (ມາຮມ)
	9	Foundation (ມູນຕີ)

037_organization_type

Create Organization Type

Create New Organization Type

Description

038_create_organization_type

localhost:5173/organization-type/1

Edit Organization Type

ID	1
Description	Limited Company (លំខែក្រោត)

X Save Cancel

039_organization_detail

localhost:5173/racial-type

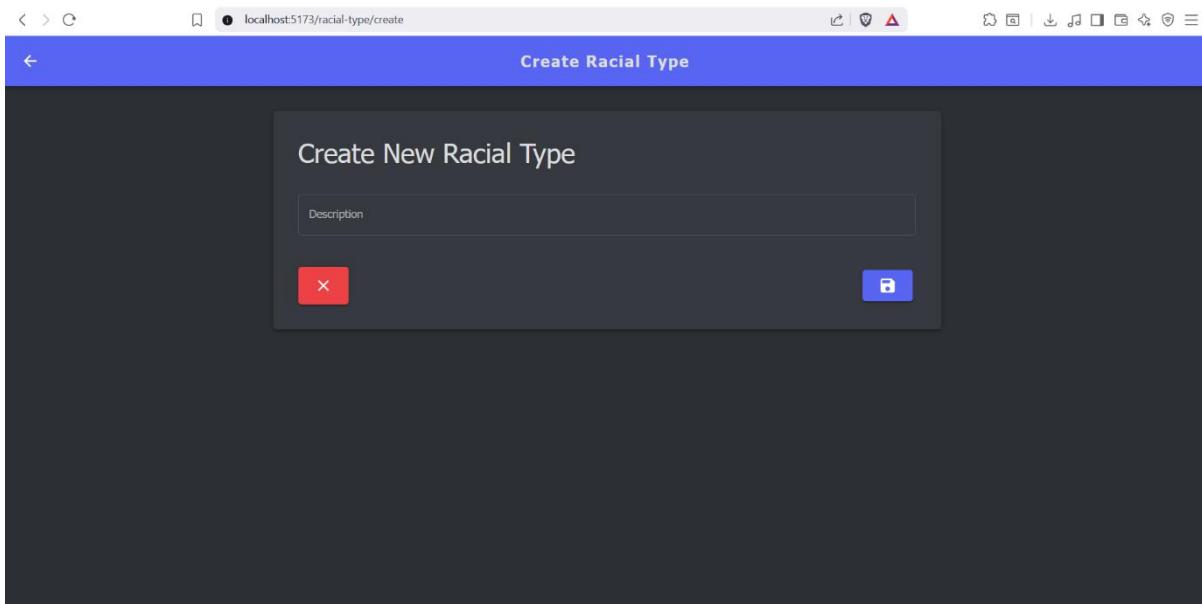
Racial Types

All Racial Types

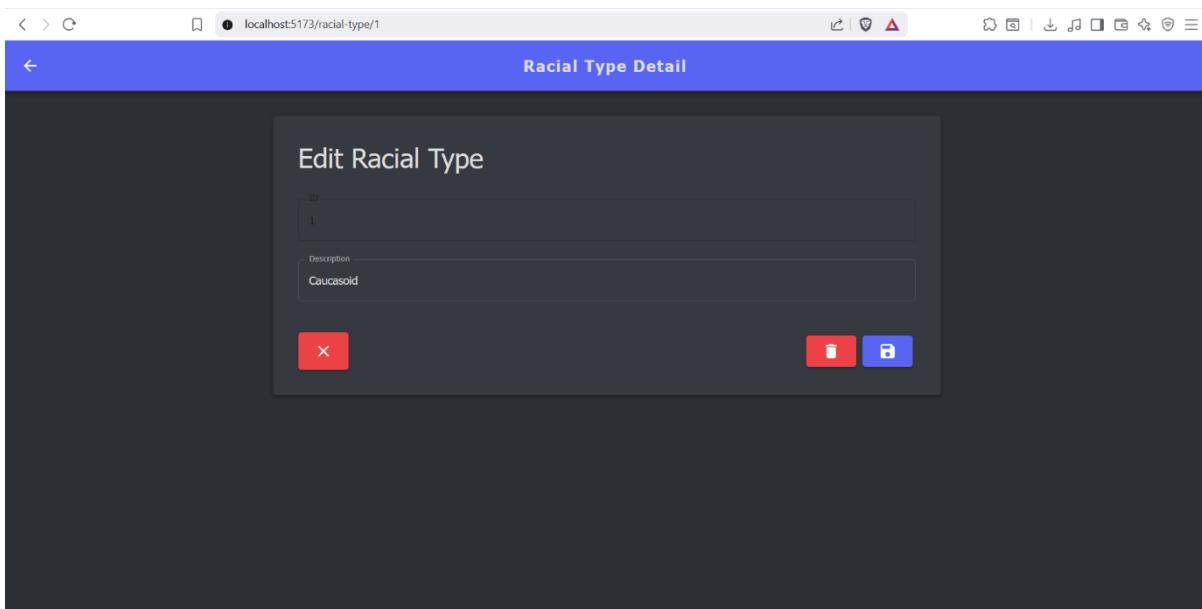
Actions	ID	Description
	1	Caucasoid
	2	Americanoid
	3	Mongoloid
	4	Australoid
	5	Khoisan
	6	Australoid
	7	Other

Rows per page: 10 | 1-7 of 7

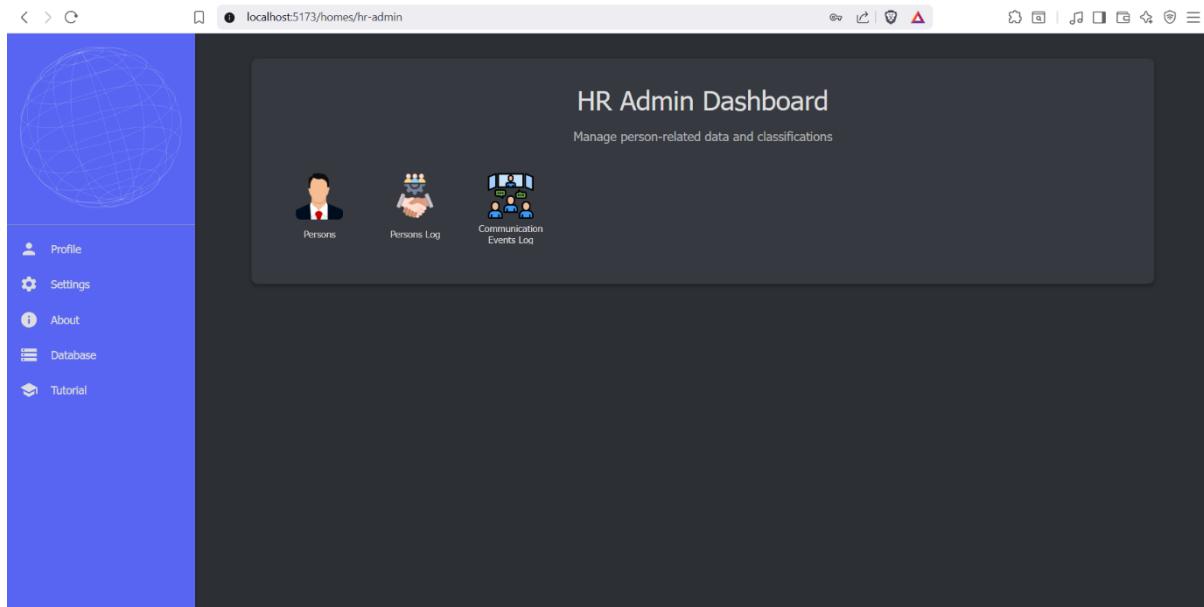
040_racial_type



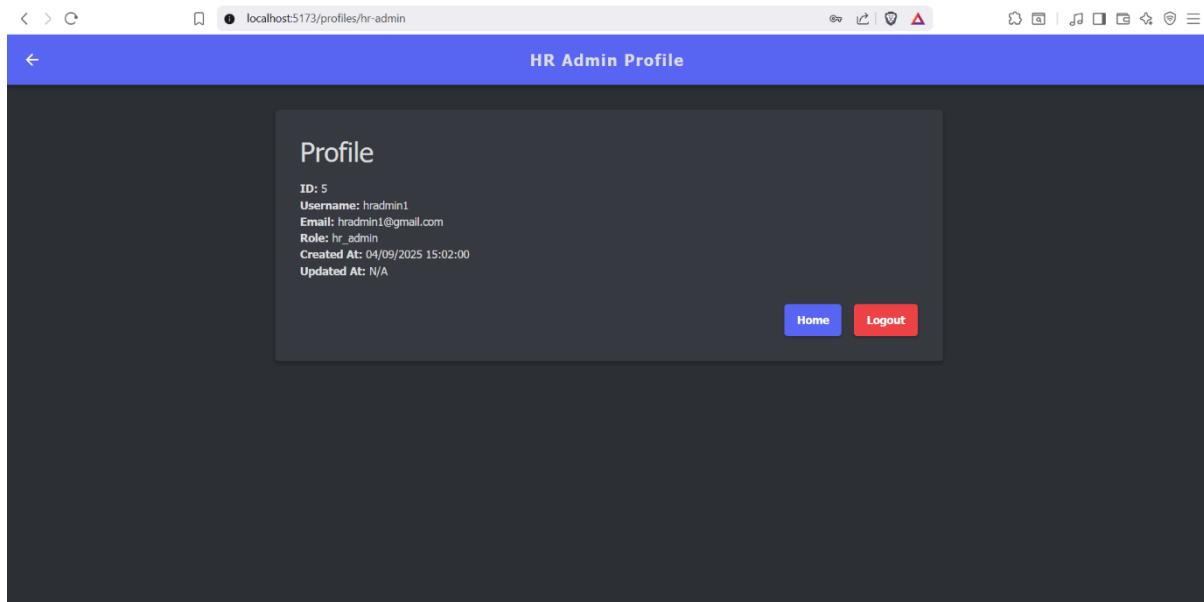
041_create_racial_type



042_racial_type_detail



043_hr_admin_home



044_hr_admin_profile

localhost:5173/persons

Persons

All Persons

[+](#)

Actions	ID	Username	Email	Personal ID	First Name	Middle Name	Last Name	⋮
	14	person1	person1@gmail.com	1234567890123	John	N/A	Doe	⋮
	15	person2	person2@gmail.com	2345678901234	Jane	Ann	Smith	⋮
	16	person3	person3@gmail.com	3456789012345	Mike	N/A	Brown	⋮
	17	person4	person4@gmail.com	4567890123456	Anna	N/A	Lee	⋮
	18	person5	person5@gmail.com	5678901234567	Somchai	N/A	Jaidee	⋮

Rows per page: 10 ▾ 1–5 of 5

045_persons

localhost:5173/persons/create

Create Person

Create New Person

046_create_person_1

A screenshot of a web browser window titled "localhost:5173/persons/create". The page displays a form for creating a new person. The fields include: Last Name, Nick Name, Birth Date (format mm/dd/yyyy), Gender, Marital Status, Country, Height (cm), Weight (kg), Racial Type, and Income Range. The browser interface shows standard navigation buttons and a status bar at the top.

047_create_person_2

A screenshot of a web browser window titled "localhost:5173/persons/create". The page displays a simplified form for creating a new person. The fields include: Marital Status, Country, Height (cm), Weight (kg), Racial Type, Income Range, and an "About Me" text area. At the bottom right are two buttons: a red "X" button and a blue "Save" button. The browser interface shows standard navigation buttons and a status bar at the top.

048_create_person_3

localhost:5173/persons/14

Person Detail

Edit Person

ID	14
Username	person1
Email	person1@gmail.com
Password	
Personal ID Number	1234567890123
First Name	John
Middle Name	

049_person_detail_1

localhost:5173/persons/14

Middle Name	
Last Name	Doe
Nick Name	JD
Birth Date	05/15/1990
Gender	Male
Marital Status	Single
Country	AX (Aland Islands)
Height (cm)	175
Weight (kg)	70
Racial Type	Americanoid

050_person_detail_2

localhost:5173/persons/14

Marital Status
Single

Country
AX (Aland Islands)

Height (cm)
175

Weight (kg)
70

Racial Type
Americanoid

Income Range
100 - 999 USD/month

About Me
Software engineer with a passion for coding.

X Save Delete

051_person_detail_3

localhost:5173/persons-history

Person History

ID	Person ID	Personal ID	First Name	Middle Name	Last Name	Nick Name	Birth Date	Gender
No rows								

Rows per page: 10 0-0 of 0

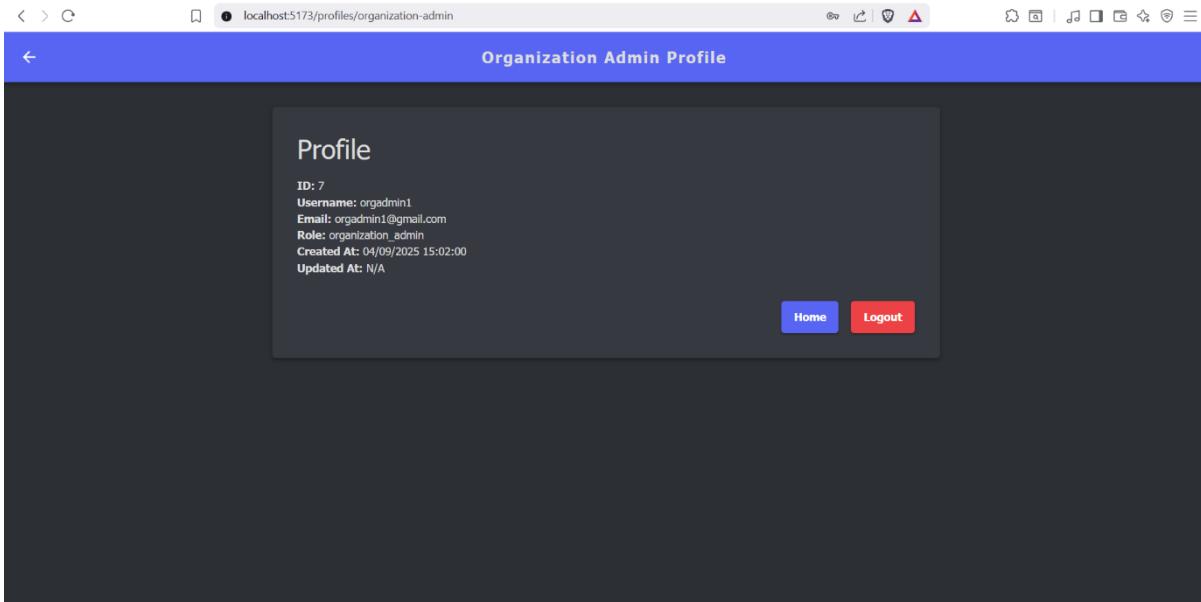
052_persons_log

Communication Event History						
ID	Event ID	Title	Detail	From User ID	From User	To User ID
18	3	Order Confirmation	Order #1234 confirmed	10	10 - Global Trade Connecting the World (Organization)	14
17	3	Order Confirmation	Order #1234 confirmed	10	10 - Global Trade Connecting the World (Organization)	14
16	2	Complaint	Issue with product delivery	14	14 - John Doe Software engineer with a passion for...	15
15	2	Complaint	Issue with product delivery	14	14 - John Doe Software engineer with a passion for...	15
14	1	Project Inquiry	Discussing new software project	9	9 - TechCorp Innovate the Future (Organization)	14
13	1	Project Inquiry	Discussing new software project	9	9 - TechCorp Innovate the Future (Organization)	14
12	1	Project Inquiry	Discussing new software project	9	9 - TechCorp Innovate the Future (Organization)	14
11	1	Project Inquiry	Discussing new software project	9	9 - TechCorp Innovate the Future (Organization)	14
10	4	Meeting Request	Schedule a consultation	15	15 - Jane Smith Marketing specialist who loves tra...	9

053_communication_event_log

The screenshot shows the 'Organization Admin Dashboard' with a dark theme. On the left is a sidebar with icons for Profile, Settings, About, Database, and Tutorial. The main area has a title 'Organization Admin Dashboard' and a subtitle 'Manage organization users and data'. It features three buttons: 'Organizations' (handshake icon), 'Organizations Log' (people icon), and 'Communication Events Log' (monitor icon). The 'Communication Events Log' button is highlighted.

054_organization_admin_home



055_organization_admin_profile

All Organizations							
Actions	ID	Username	Email	Federal Tax ID	Name (EN)	Name (TH)	Organization Type
	9	orguser1	orguser1@gmail.com	987654321	TechCorp	เทคโนโลยี	Limited Company (บริษัทจำกัด)
	10	orguser2	orguser2@gmail.com	876543210	Global Trade	กลوبัลเทรด	Public Limited Company (บริษัทมหาชน์จำกัด)
	11	orguser3	orguser3@gmail.com	765432109	Healthcare Solutions	โรงพยาบาล	Limited Partnership (บริษัทพาร์ทเนอร์ชิปจำกัด)
	12	orguser4	orguser4@gmail.com	654321098	BuildGo	บิลด์โก	Limited Company (บริษัทจำกัด)
	13	orguser5	orguser5@gmail.com	543210987	NonProfit Org	องค์กรไม่แสวงผลกำไร	Non-Profit Organization (องค์กร非營利組織)

Rows per page: 10 | 1-5 of 5

056_organizations

The screenshot shows a web browser window with the URL `localhost:5173/organizations/create`. The title bar says "Create Organization". The main content area is titled "Create New Organization". It contains the following fields:

- Username
- Email
- Password
- Federal Tax ID
- Name (EN)
- Name (TH)
- Organization Type (dropdown menu)

057_create_organization_1

The screenshot shows the same web browser window with the URL `localhost:5173/organizations/create`. The title bar says "Create Organization". The main content area is titled "Create New Organization". It contains the following fields:

- Federal Tax ID
- Name (EN)
- Name (TH)
- Organization Type (dropdown menu)
- Industry Type (dropdown menu)
- Employee Count
- Slogan

At the bottom right are two buttons: a red "X" button and a blue save/submit button.

058_create_organization_2

A screenshot of a web browser displaying the 'Edit Organization' form. The URL is localhost:5173/organizations/9. The page title is 'Organization Detail'. The form fields include:

- ID: 9
- Username: orguser1
- Email: orguser1@gmail.com
- Password: (empty)
- Federal Tax ID: 987654321
- Name (EN): TechCorp
- Name (TH): เทคคอร์ป

059_organization_detail_1

A screenshot of a web browser displaying the 'Edit Organization' form. The URL is localhost:5173/organizations/9. The page title is 'Organization Detail'. The form fields include:

- Federal Tax ID: 987654321
- Name (EN): TechCorp
- Name (TH): เทคคอร์ป
- Organization Type: Limited Company (บริษัห์จำกัด)
- Industry Type: 111140 - Wheat Farming
- Employee Count: 50
- Slogan: Innovate the Future

At the bottom right are three buttons: a red 'X' button, a red trash can button, and a blue save/cancel button.

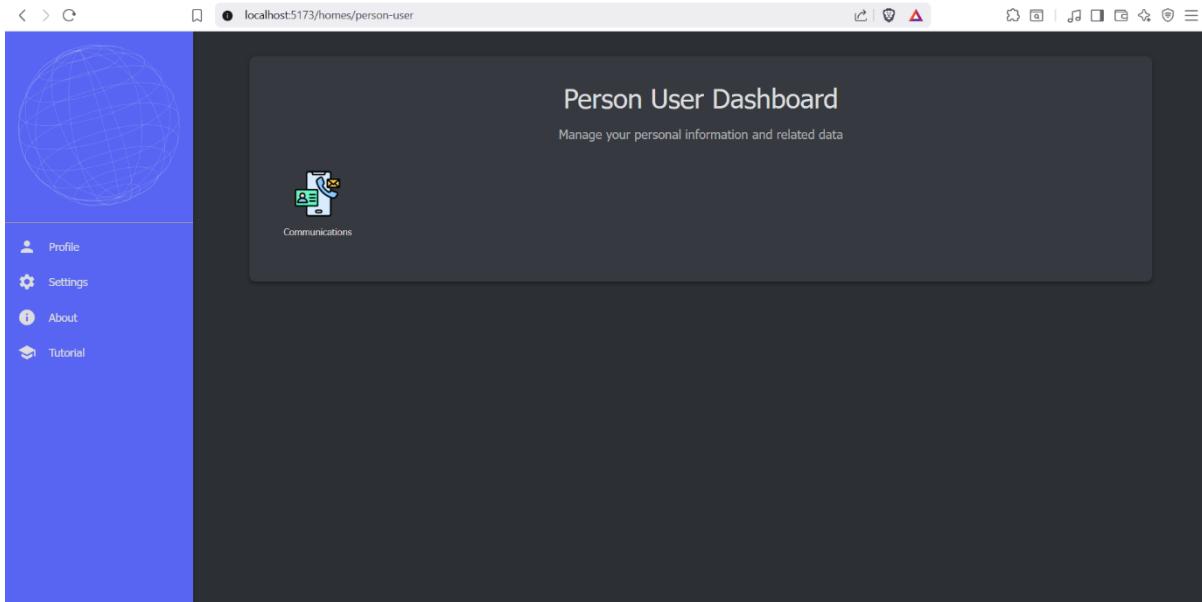
060_organization_detail_2

Organization History								
Organization History								
ID	Organization ID	Federal Tax ID	Name (EN)	Name (TH)	Organization Type	Industry Type	Employee Count	Slogan
No rows								
Rows per page: 10 < > 0-0 of 0								

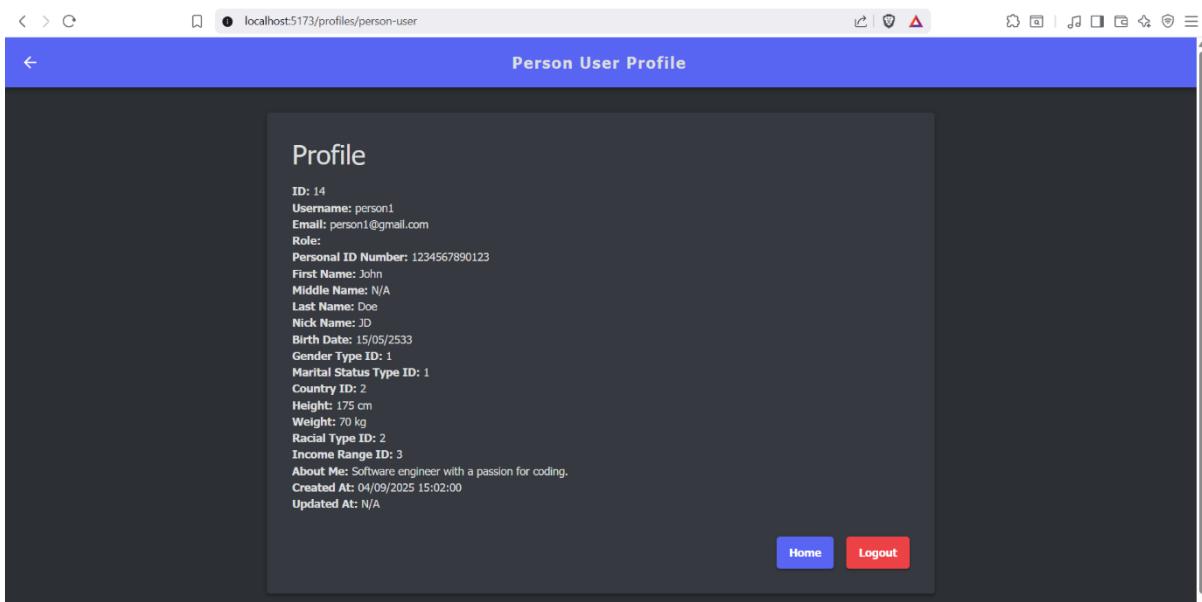
061_organization_log

Communication Event History						
Communication Event History						
ID	Event ID	Title	Detail	From User ID	From User	To User ID
18	3	Order Confirmation	Order #1234 confirmed	10	10 - Global Trade Connecting the World (Organization)	14
17	3	Order Confirmation	Order #1234 confirmed	10	10 - Global Trade Connecting the World (Organization)	14
16	2	Complaint	Issue with product delivery	14	14 - John Doe Software engineer with a passion fo...	15
15	2	Complaint	Issue with product delivery	14	14 - John Doe Software engineer with a passion fo...	15
14	1	Project Inquiry	Discussing new software project	9	9 - TechCorp Innovate the Future (Organization)	14
13	1	Project Inquiry	Discussing new software project	9	9 - TechCorp Innovate the Future (Organization)	14
12	1	Project Inquiry	Discussing new software project	9	9 - TechCorp Innovate the Future (Organization)	14
11	1	Project Inquiry	Discussing new software project	9	9 - TechCorp Innovate the Future (Organization)	14
10	4	Meeting Request	Schedule a consultation	15	15 - Jane Smith Marketing specialist who loves tra...	9

062_communication_event_log



063_person_user_home



064_person_user_profile

Communication Events							
Actions	ID	Title	Detail	From User ID	From User	To User ID	Tc
	5	Feedback	Positive feedback on service	14	14 - John Doe Software engineer with a passion fo...	10	10
	1	Project Inquiry	Discussing new software project	9	9 - TechCorp Innovate the Future (Organization)	14	14
	2	Complaint	Issue with product delivery	14	14 - John Doe Software engineer with a passion fo...	15	15
	3	Order Confirmation	Order #1234 confirmed	10	10 - Global Trade Connecting the World (Organizat...	14	14

Rows per page: 10 < 1-4 of 4 >

065_communication_event_all

Communication Events							
Actions	ID	Title	Detail	From User ID	From User	To User ID	Tc
	1	Project Inquiry	Discussing new software project	9	9 - TechCorp Innovate the Future (Organization)	14	14
	3	Order Confirmation	Order #1234 confirmed	10	10 - Global Trade Connecting the World (Organizat...	14	14

Rows per page: 10 < 1-2 of 2 >

066_communication_event_inbox

Communication Events							
All Communication Events							
Actions	ID	Title	Detail	From User ID	From User	To User ID	Tc
	5	Feedback	Positive feedback on service	14	14 - John Doe Software engineer with a passion fo...	10	10
	2	Complaint	Issue with product delivery	14	14 - John Doe Software engineer with a passion fo...	15	15

Rows per page: 10 < 1-2 of 2 >

067_communication_event_sent

Communication Events							
All Communication Events							
Actions	ID	Title	Detail	From User ID	From User	To User ID	Tc
	2	Complaint	Issue with product delivery	14	14 - John Doe Software engineer with a passion fo...	15	15

Rows per page: 10 < 1-1 of 1 >

068_communication_event_star

The screenshot shows a web browser window with the URL `localhost:5173/communication-events/create`. The title bar says "Create Communication Event". The main content area is titled "Create New Communication Event". It contains several input fields: "Title" (empty), "Detail" (empty), "To User" (dropdown menu), "Contact Mechanism Type" (dropdown menu), and "Status" (dropdown menu). At the bottom right are a red "X" button and a blue "Save" button with a lock icon.

069_create_communication_event

The screenshot shows a web browser window with the URL `localhost:5173/communication-events/5`. The title bar says "Communication Event Detail". The main content area is titled "Edit Communication Event". It contains several input fields: "ID" (value 5), "Title" (value "Feedback"), "Detail" (value "Positive feedback on service"), "To User" (dropdown menu showing "10 - Global Trade Connecting the World (Organization)"), "Contact Mechanism Type" (dropdown menu showing "Email"), and "Status" (dropdown menu showing "Completed").

070_communication_event_detail_1

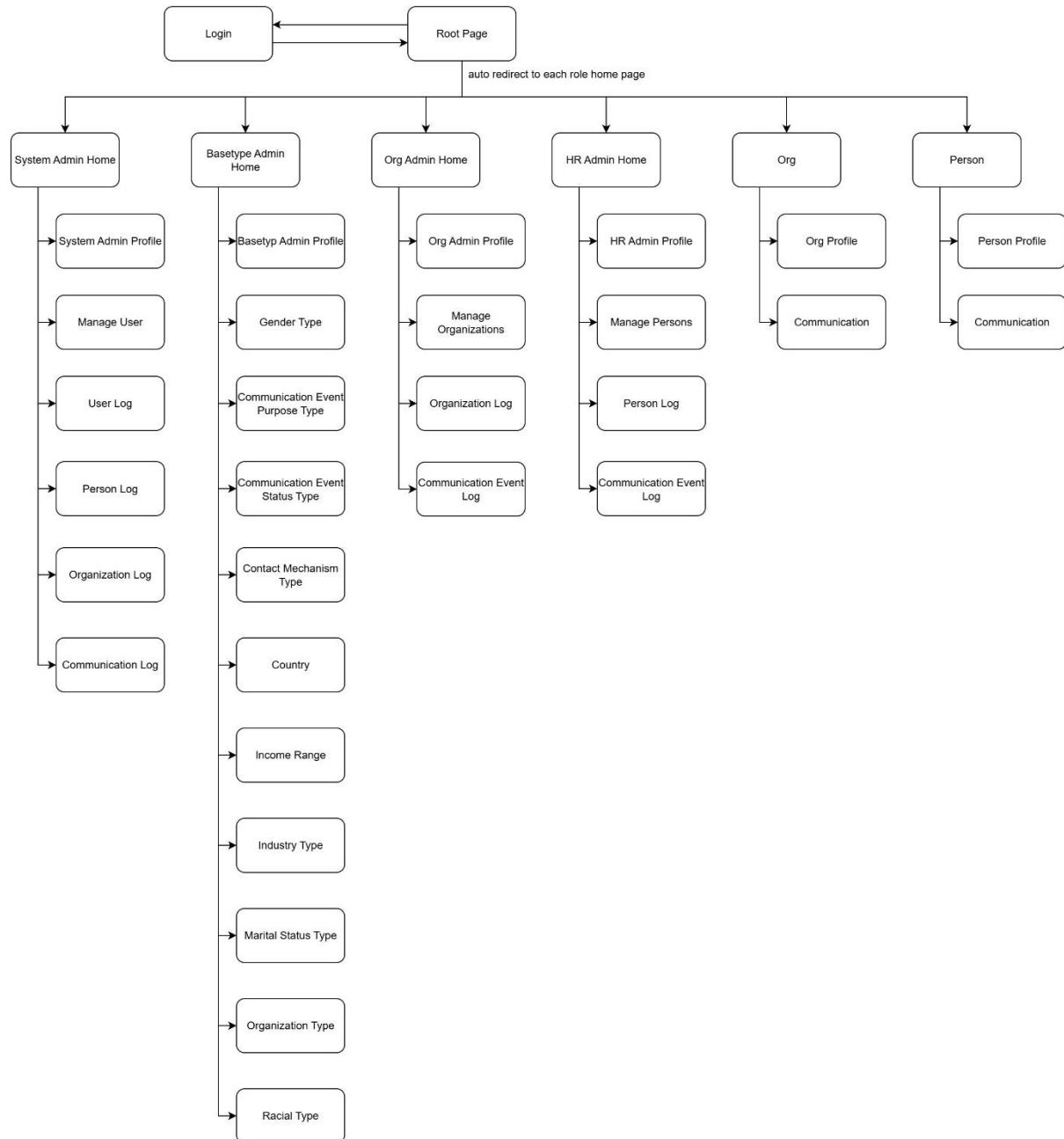
The screenshot shows a web application window titled "Edit Communication Event". The URL in the address bar is "localhost:5173/communication-events/5". The form contains the following fields:

- ID: 5
- Title: Feedback
- Detail: Positive feedback on service
- To User: 10 - Global Trade Connecting the World (Organization)
- Contact Mechanism Type: Email
- Status: Completed

At the bottom right of the form, there are two buttons: a red button with a white "X" and a blue button with a white square containing a circle.

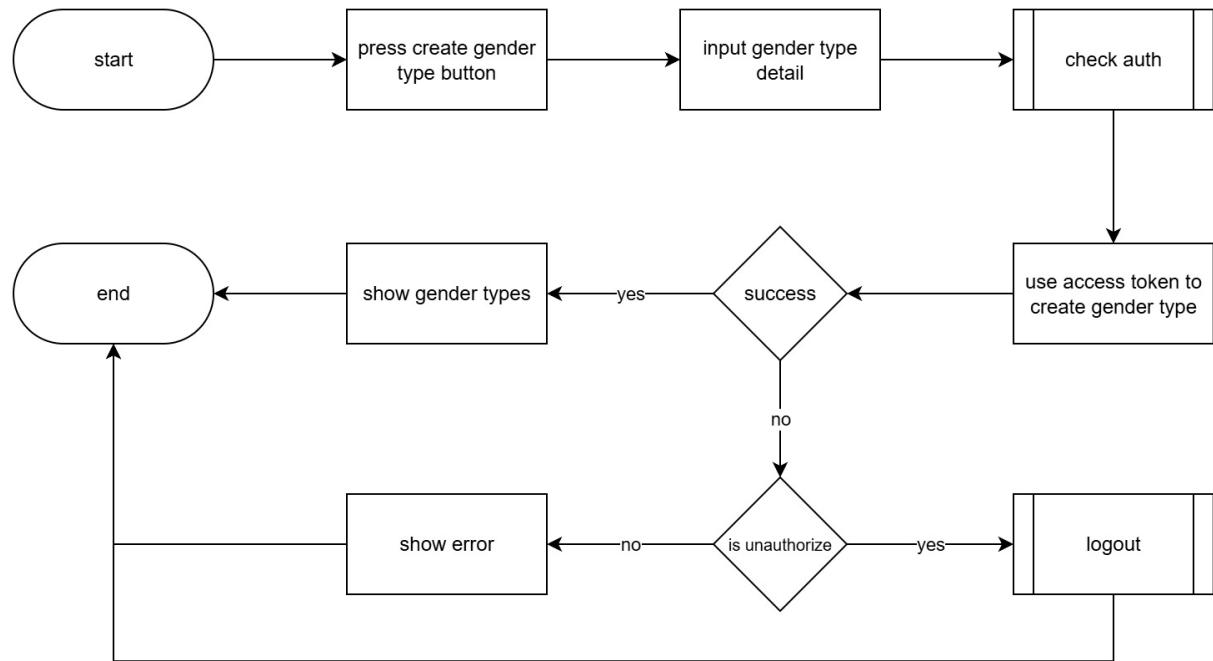
071_communication_event_detail_2

Site Map

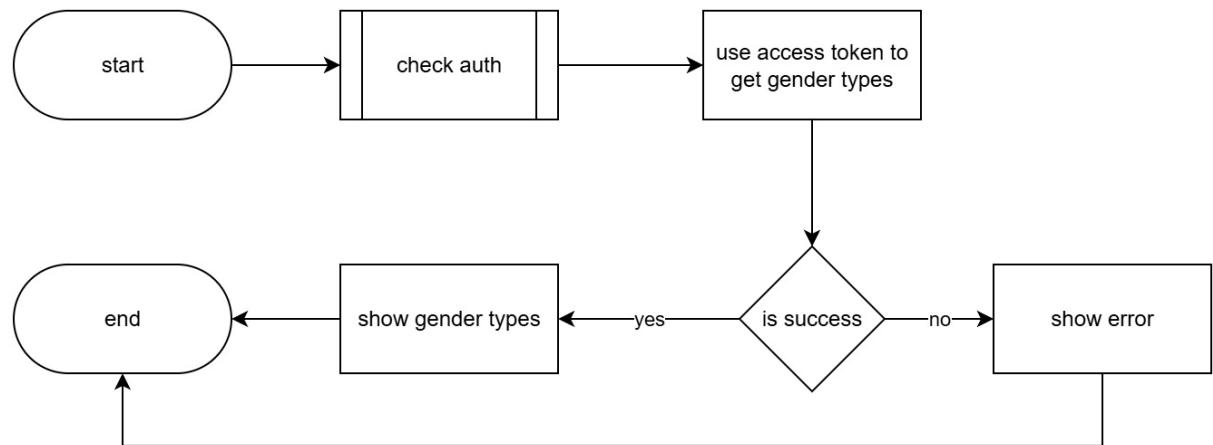


Activity Diagram

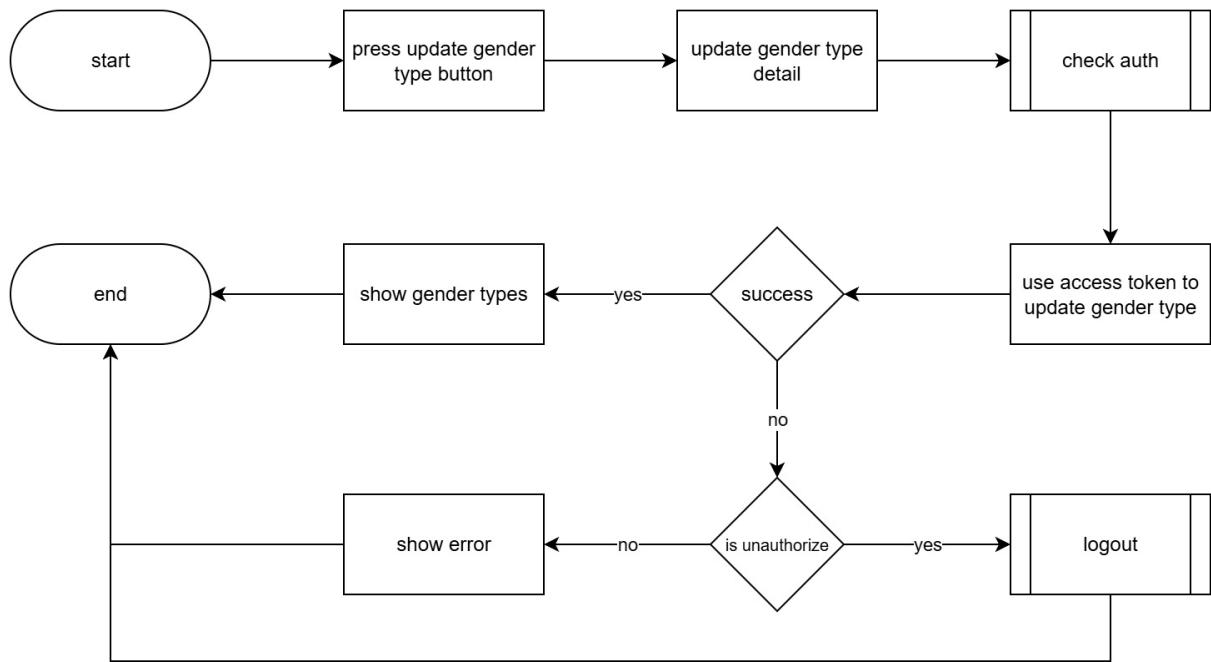
For Base Type Admin



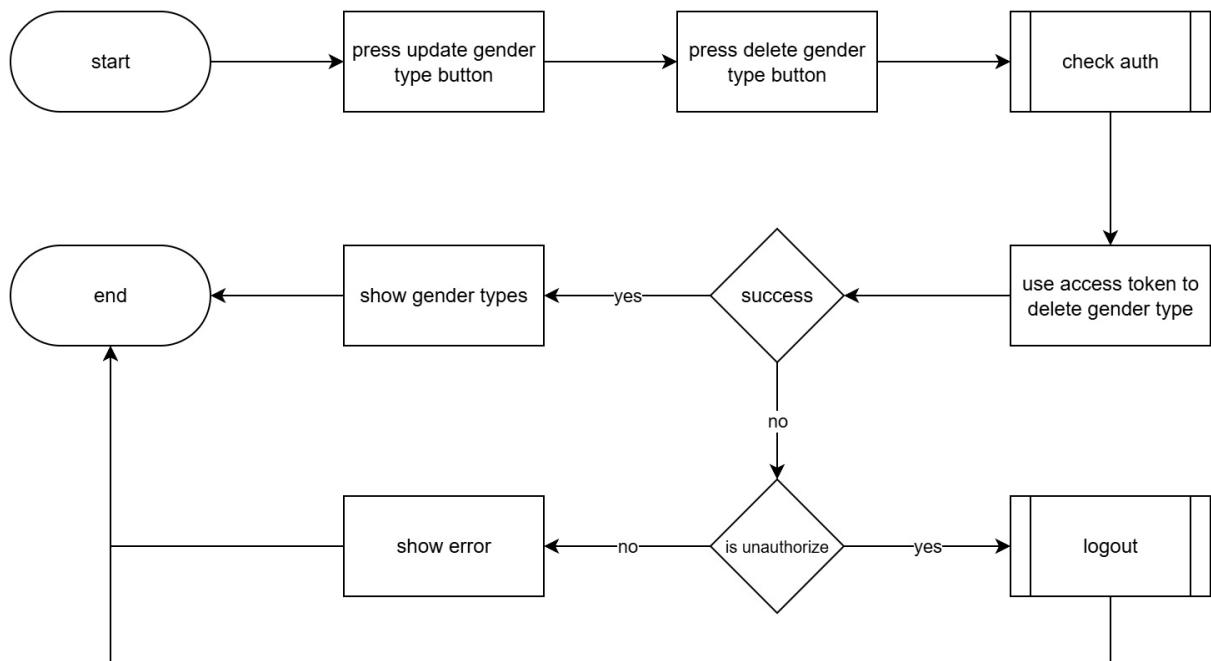
activity_baseadmin-1 create gender type



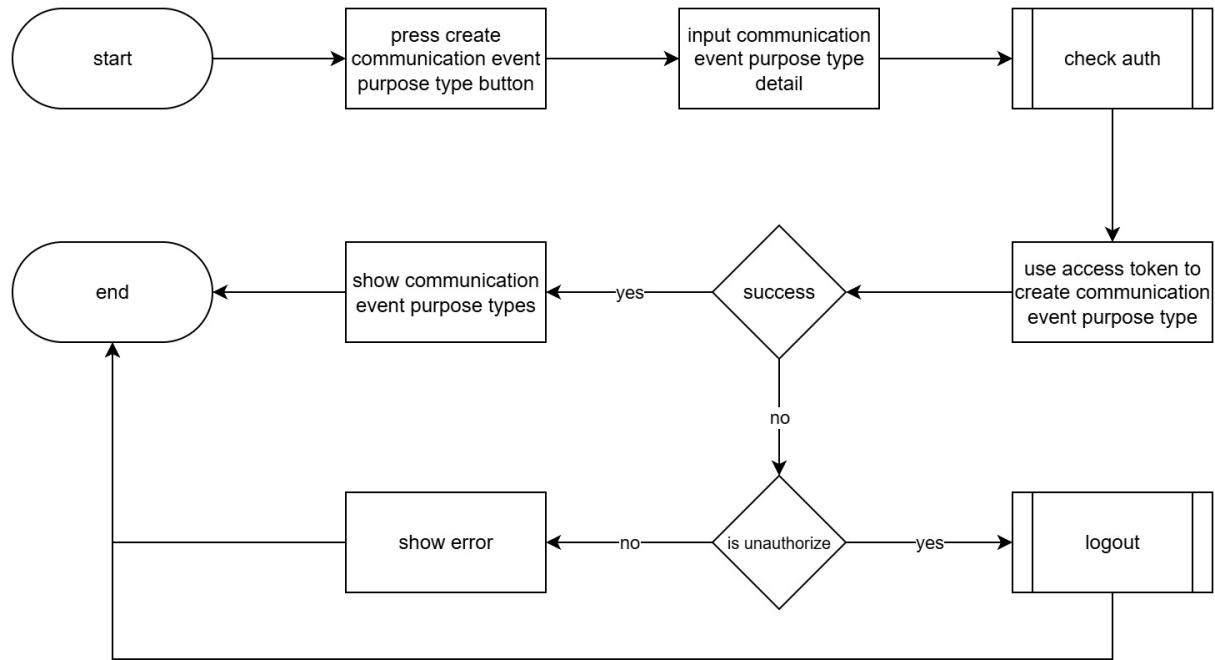
activity_baseadmin-2 read gender types



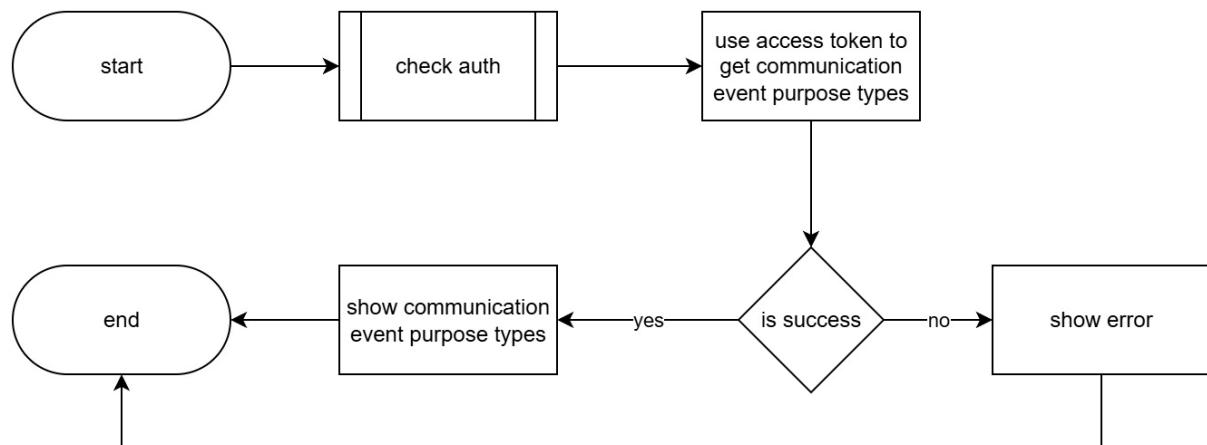
activity_baseadmin-3 update gender type



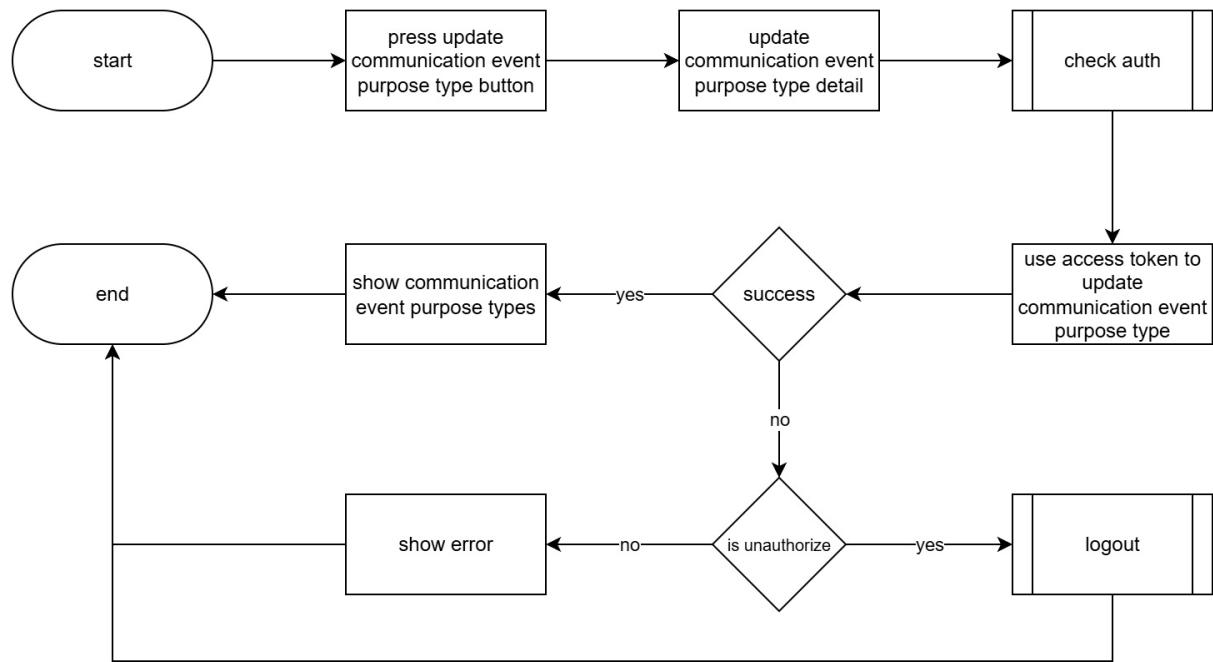
activity_baseadmin-4 delete gender type



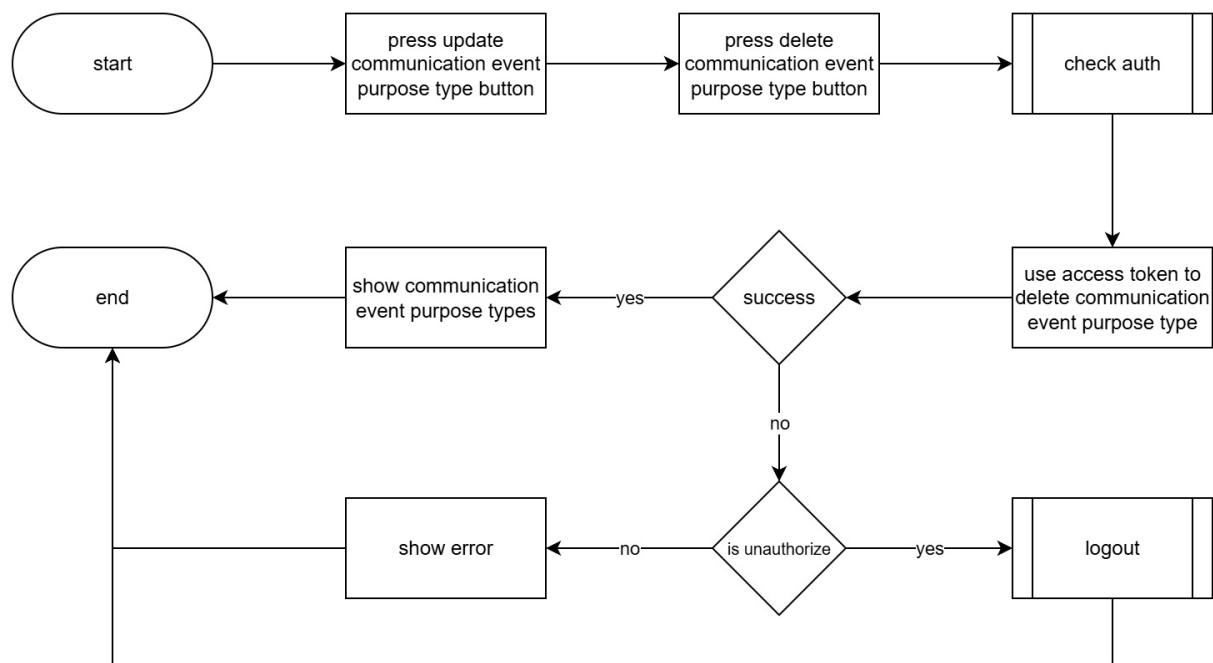
activity_baseadmin-5 create communication event purpose type



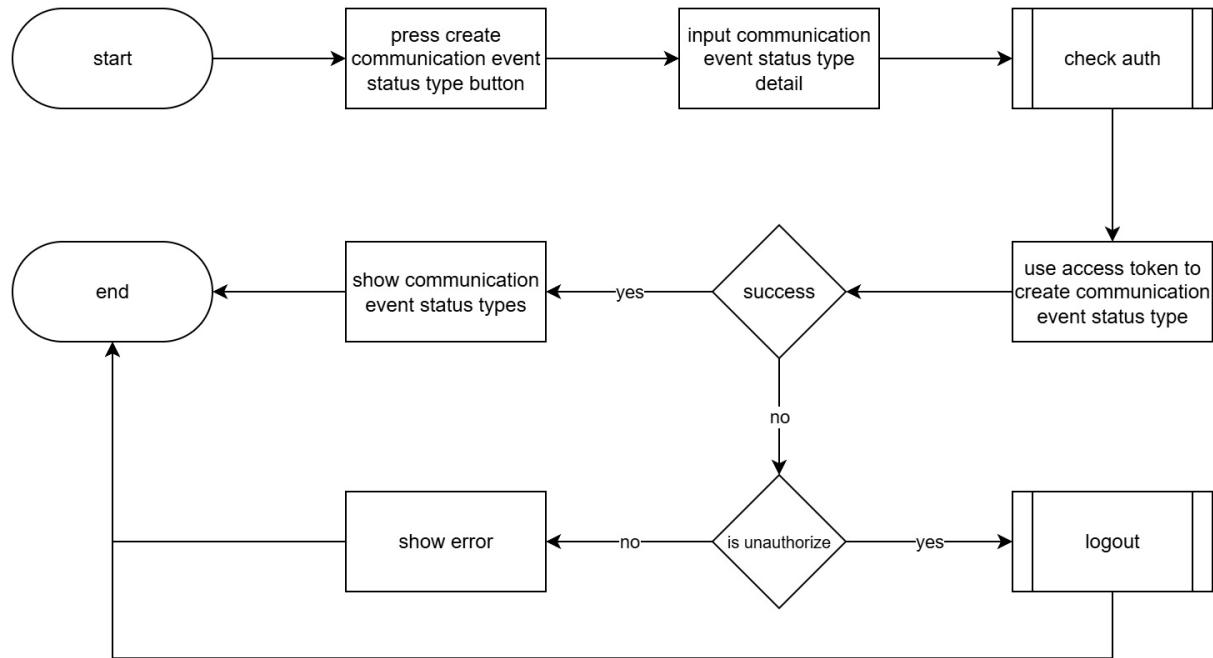
activity_baseadmin-6 read communication event purpose types



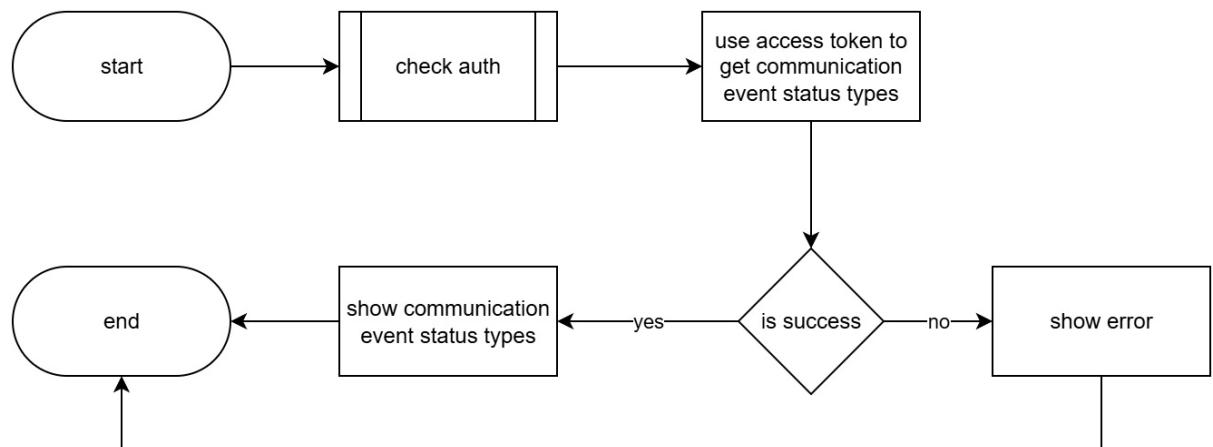
activity_baseadmin-7 update communication event purpose type



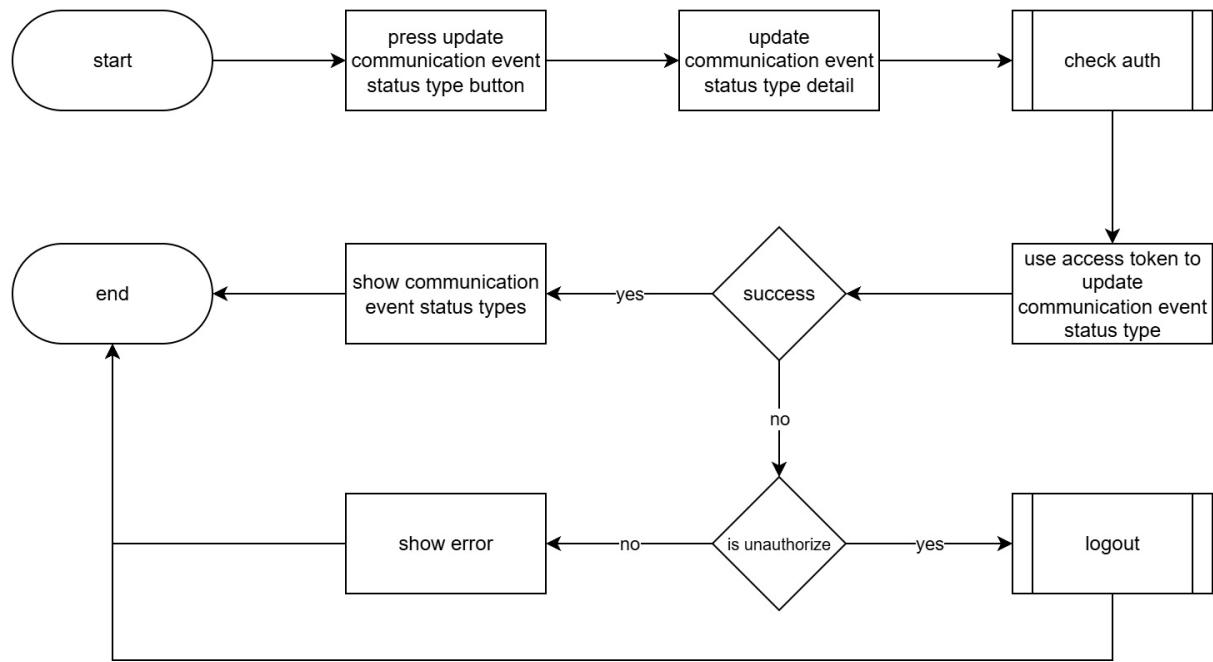
activity_baseadmin-8 delete communication event purpose type



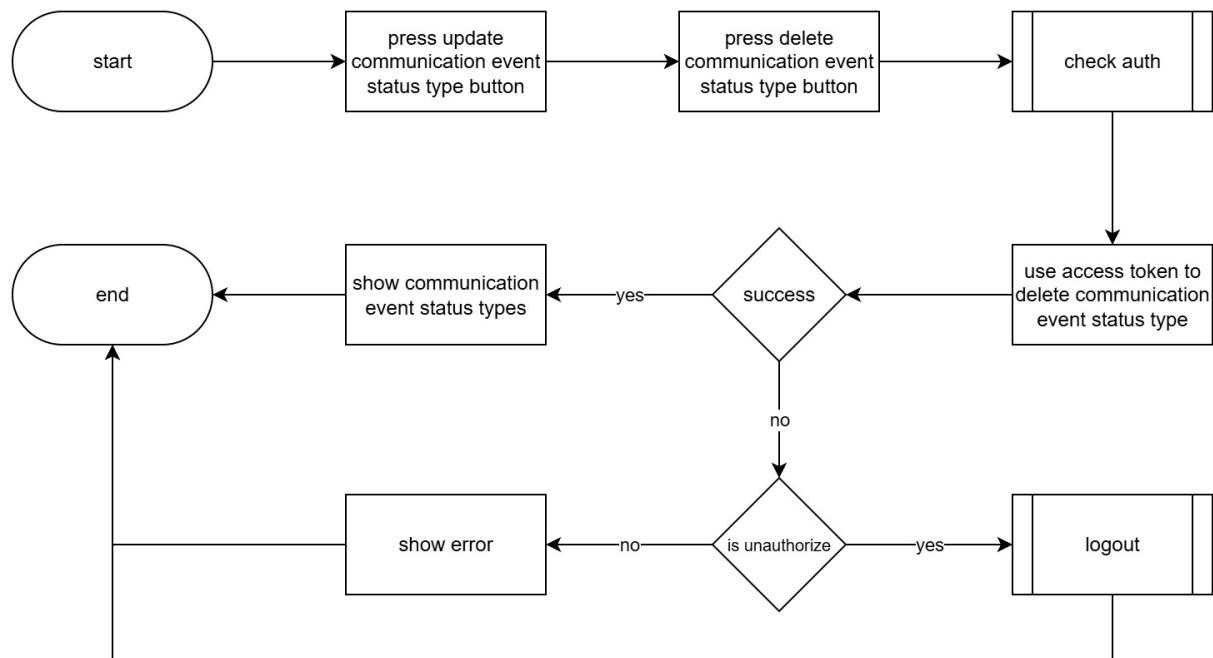
activity_baseadmin-9 create communication event status type



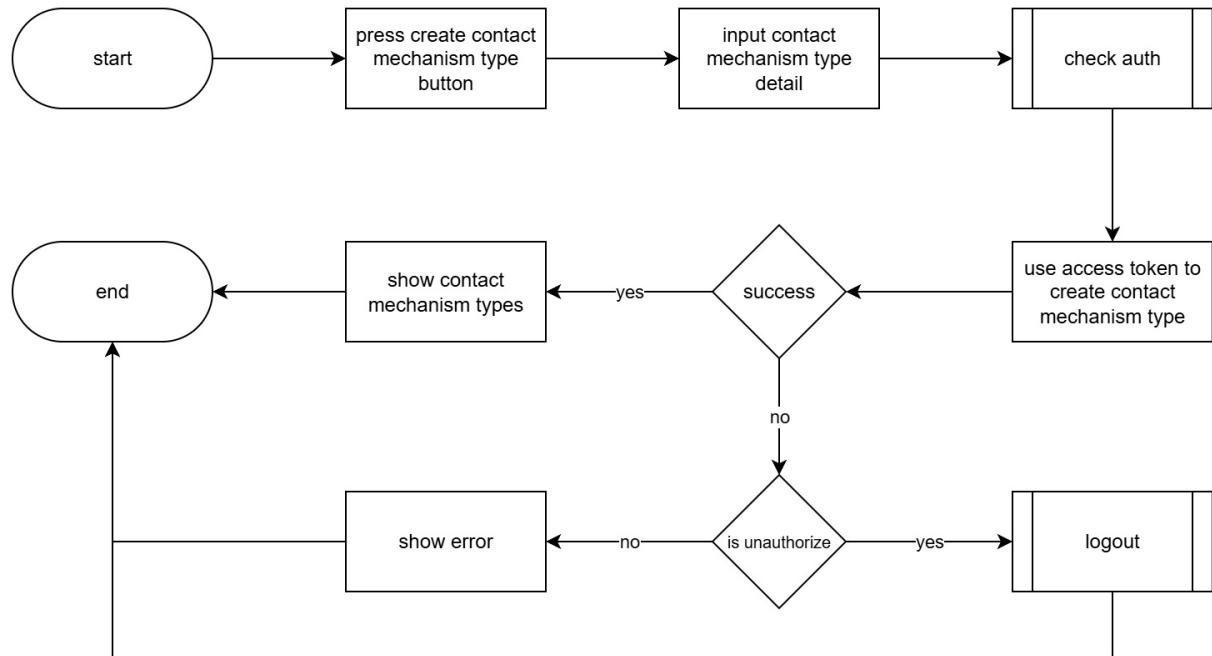
activity_baseadmin-10 read communication event status types



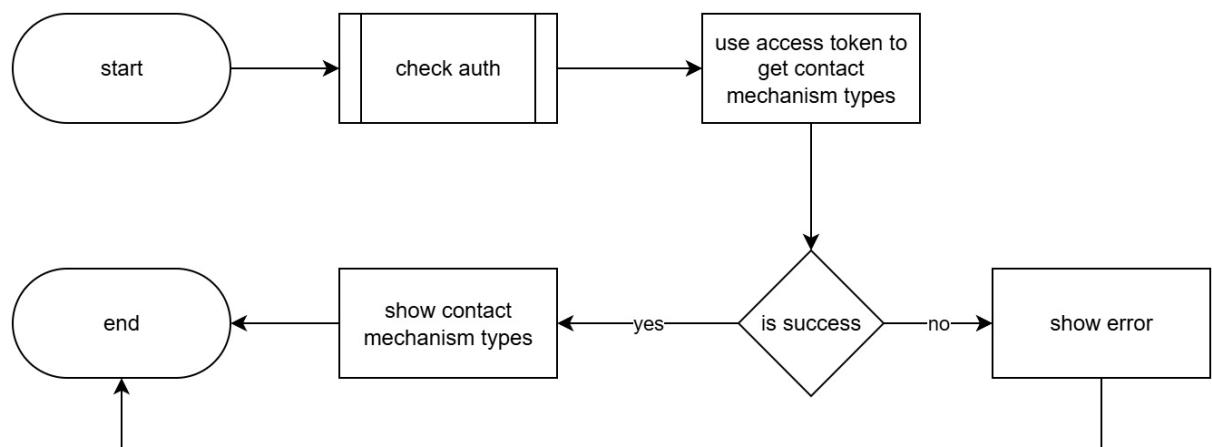
activity_baseadmin-11 update communication event status type



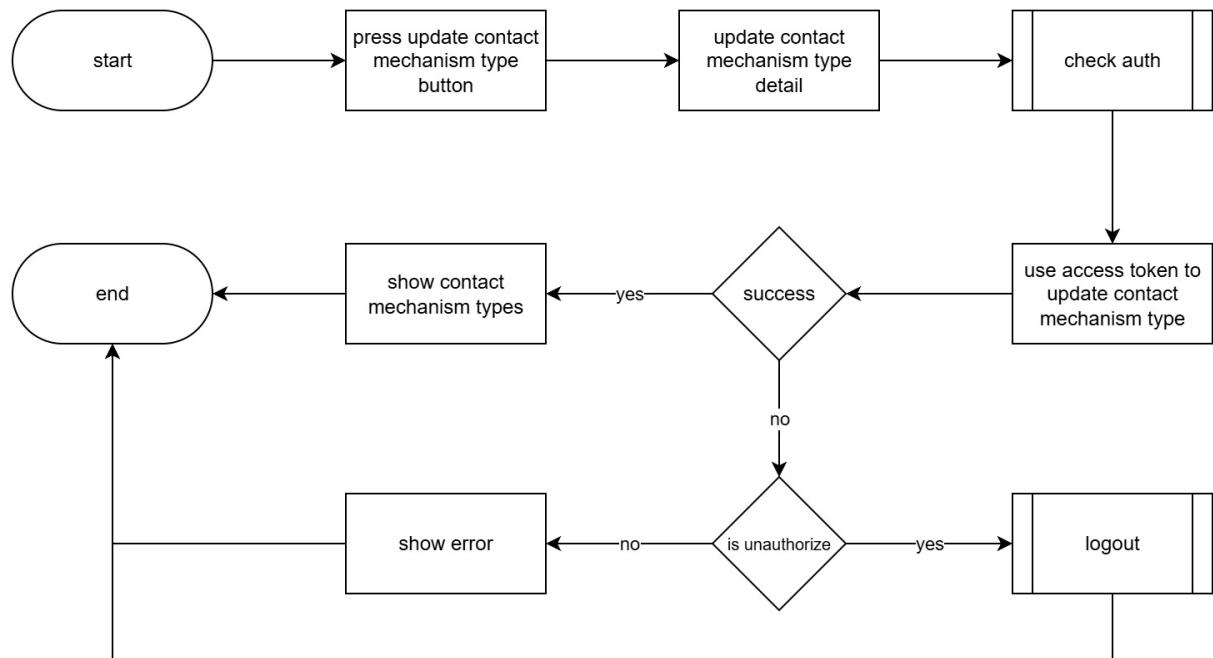
activity_baseadmin-12 delete communication event status type



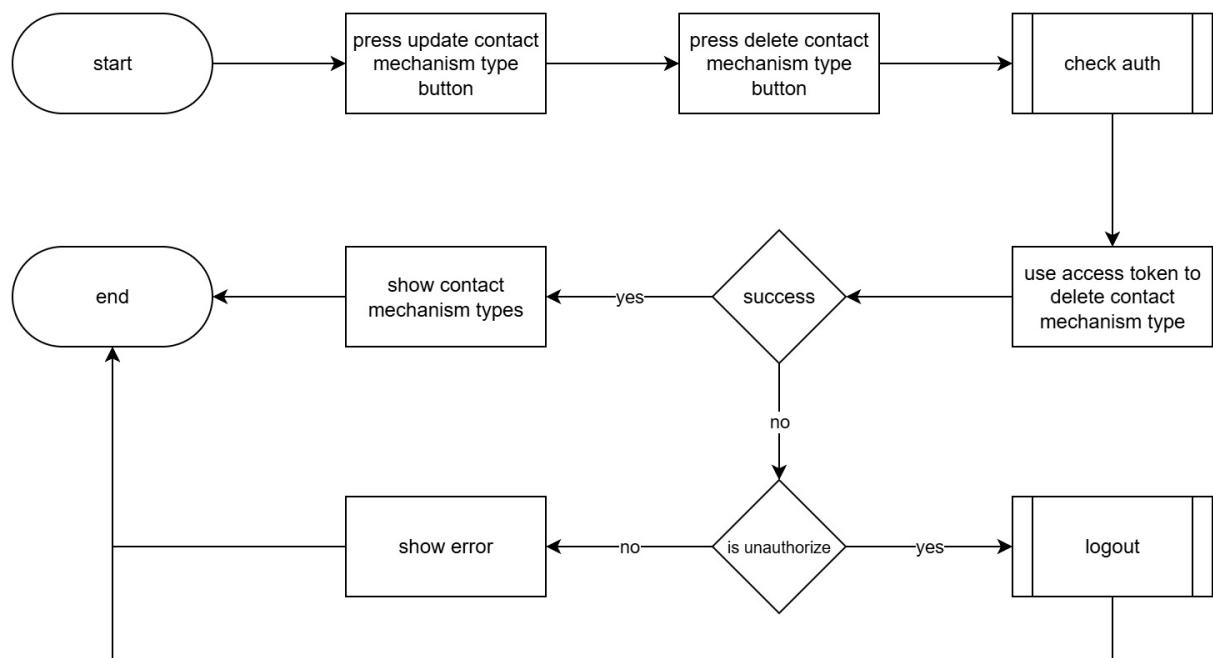
activity_baseadmin-13 create contact mechanism type



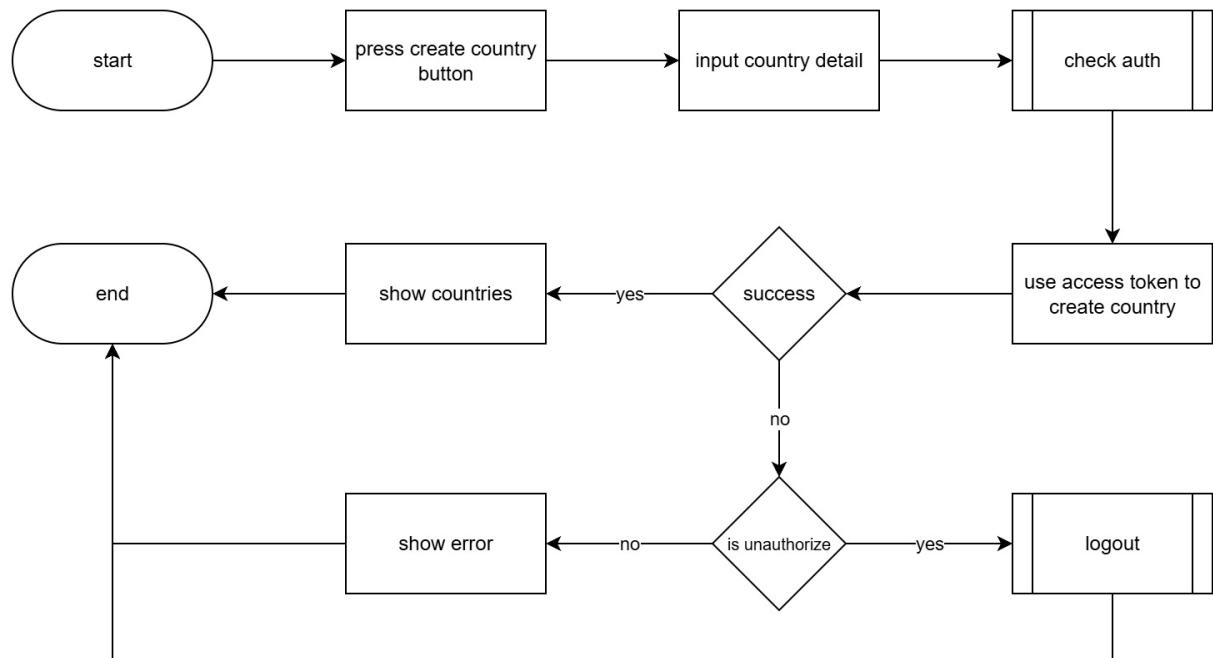
activity_baseadmin-14 read contact mechanism types



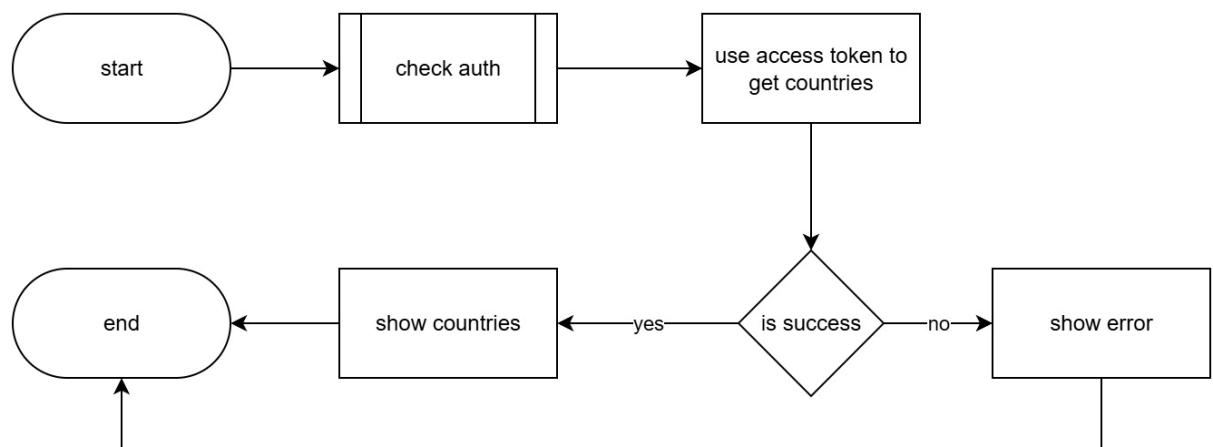
activity_baseadmin-15 update contact mechanism type



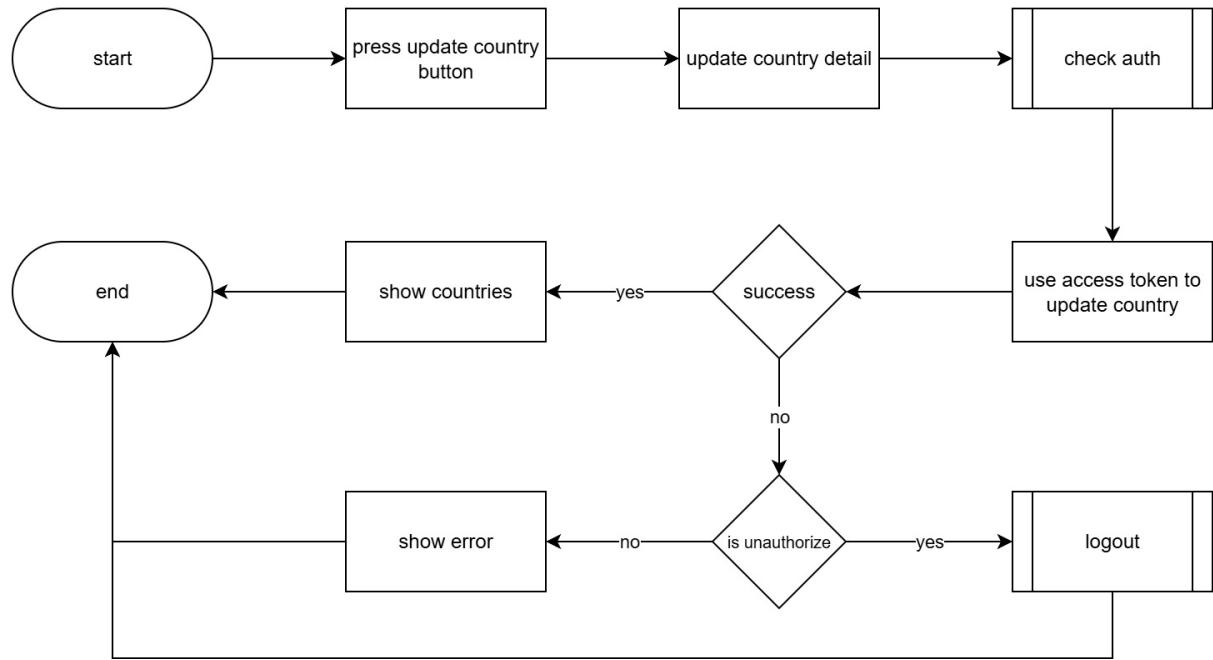
activity_baseadmin-16 delete contact mechanism type



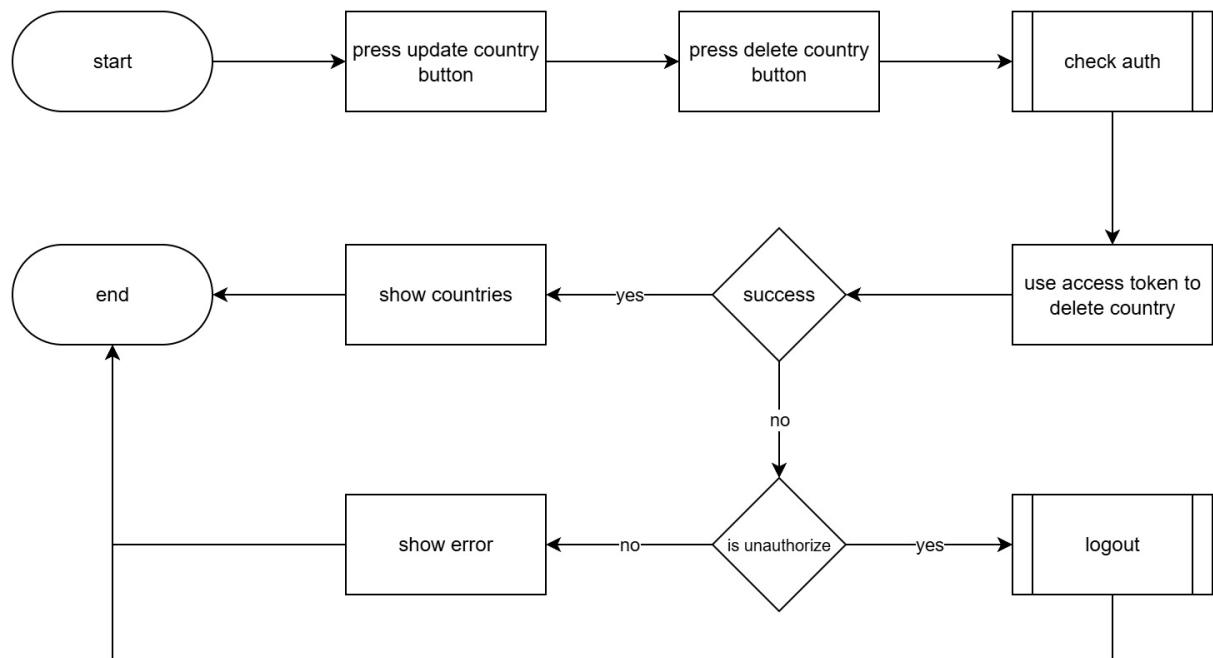
activity_baseadmin-17 create country



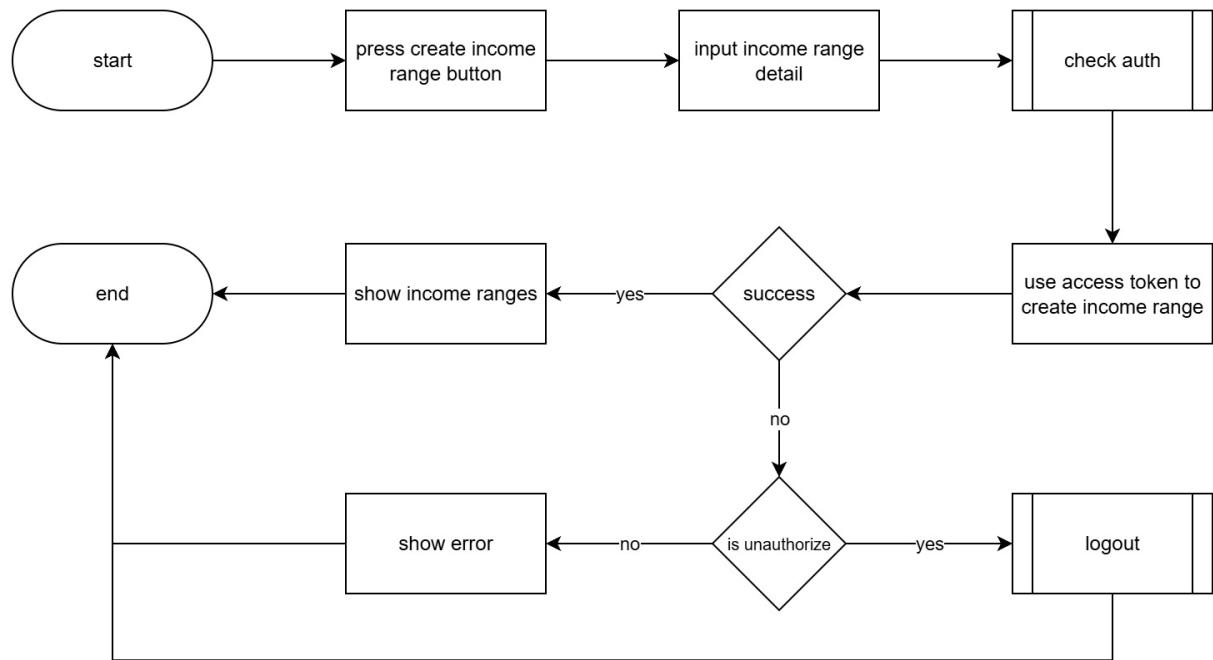
activity_baseadmin-18 read counties



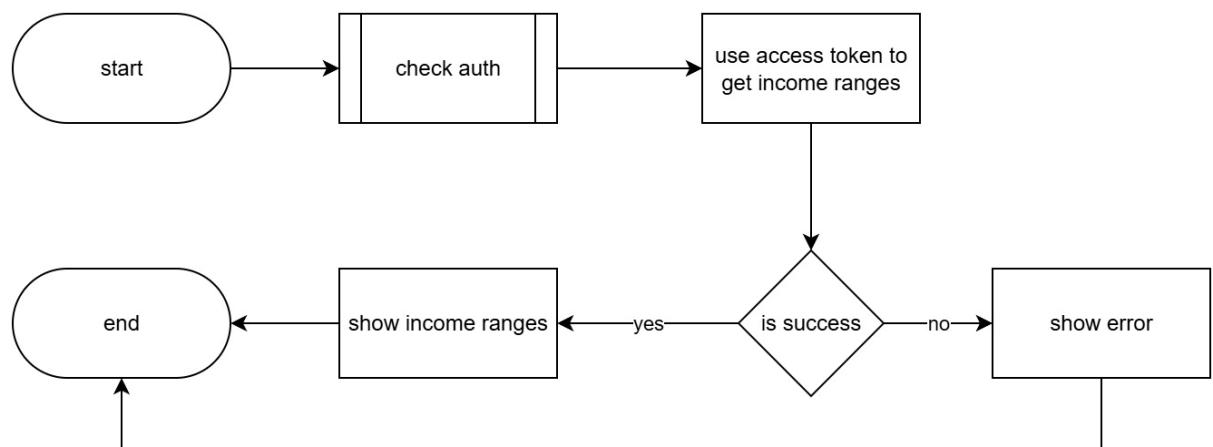
activity_baseadmin-19 update country



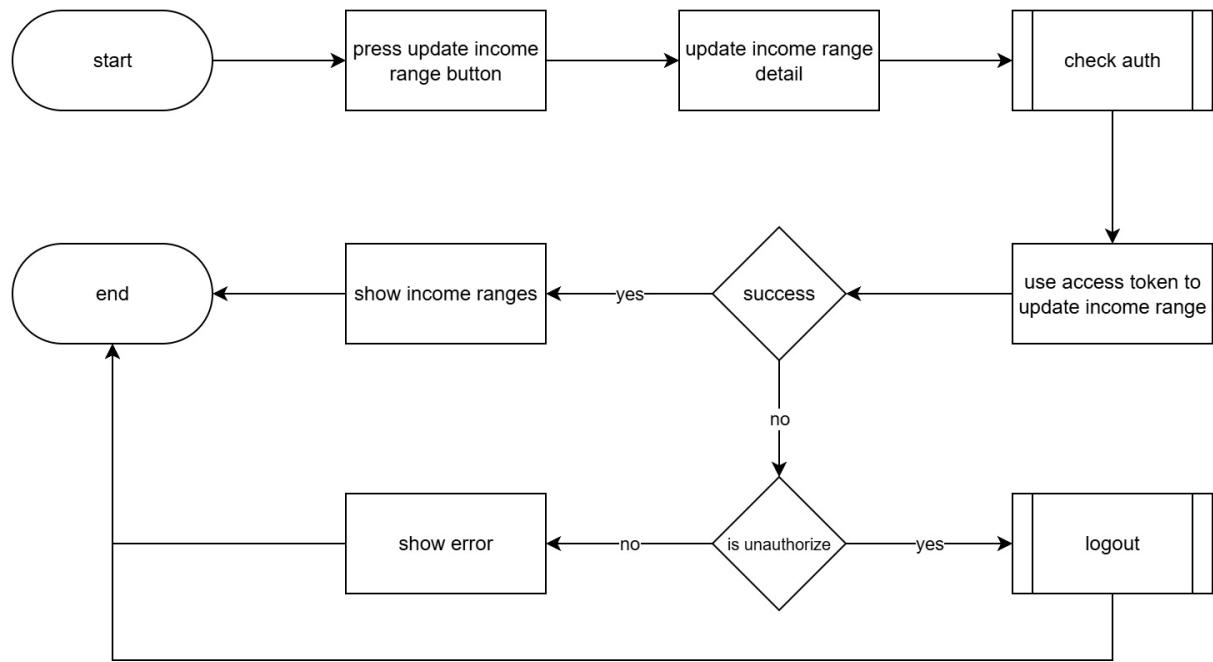
activity_baseadmin-20 delete country



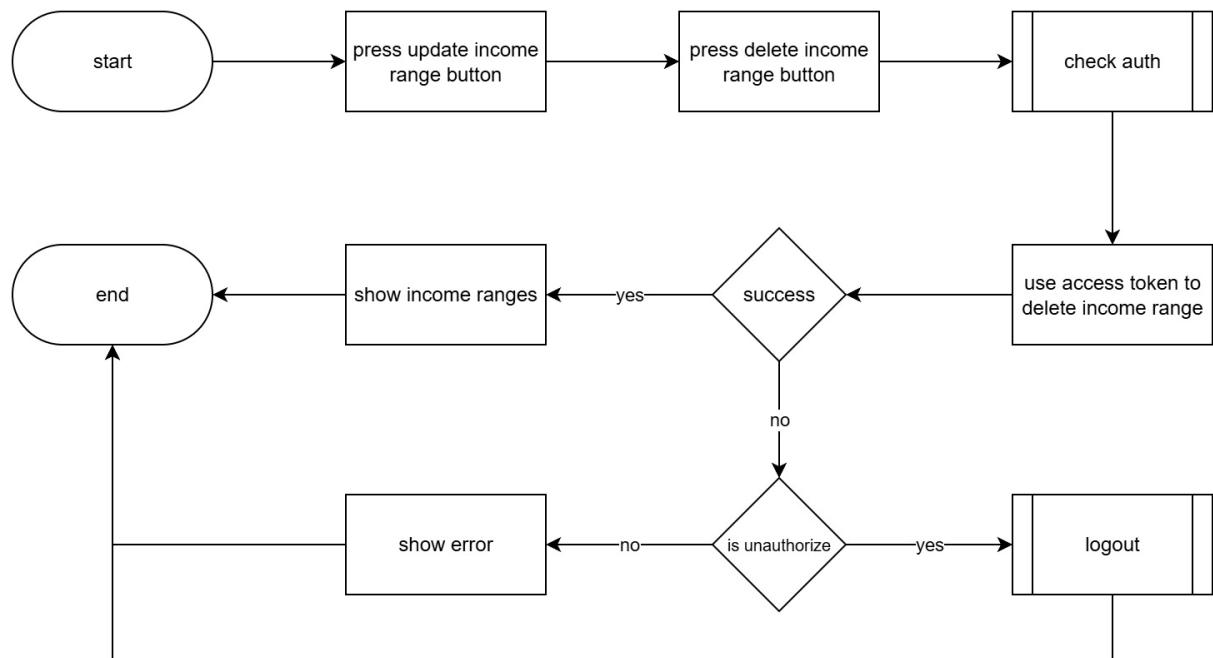
activity_baseadmin-21 create income range



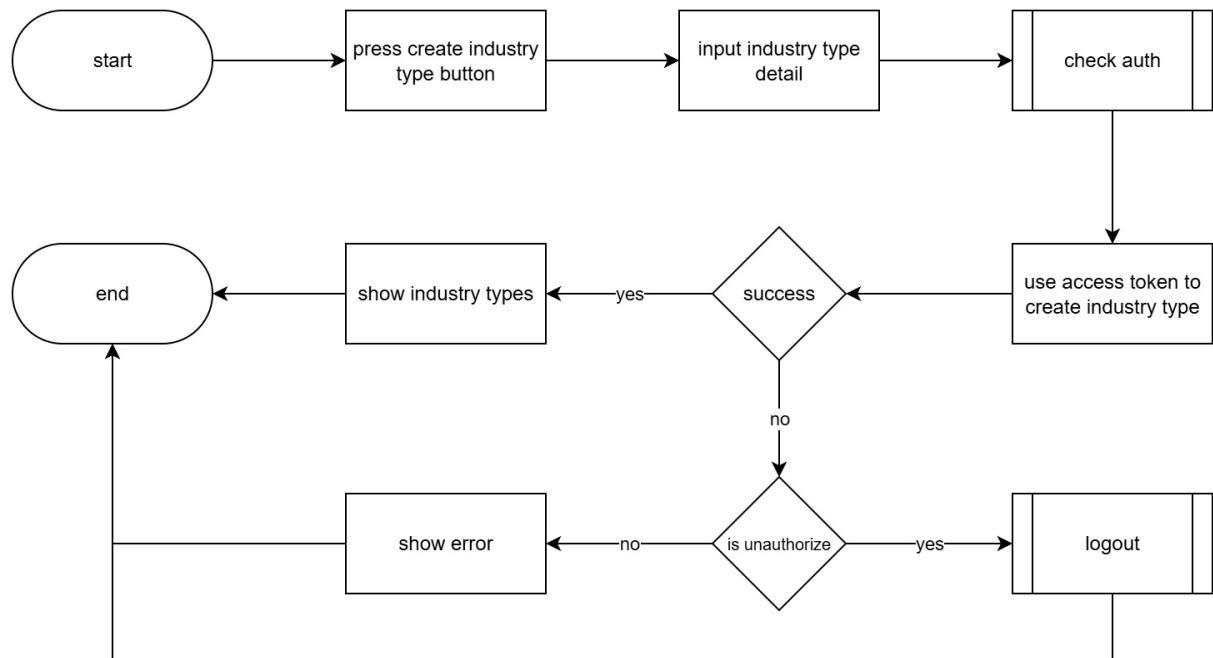
activity_baseadmin-22 read income ranges



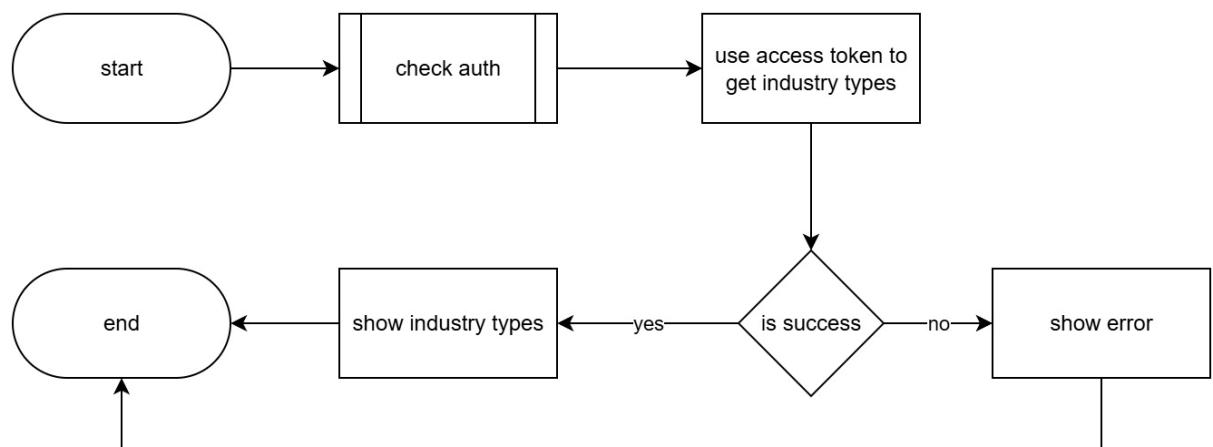
activity_baseadmin-23 update income range



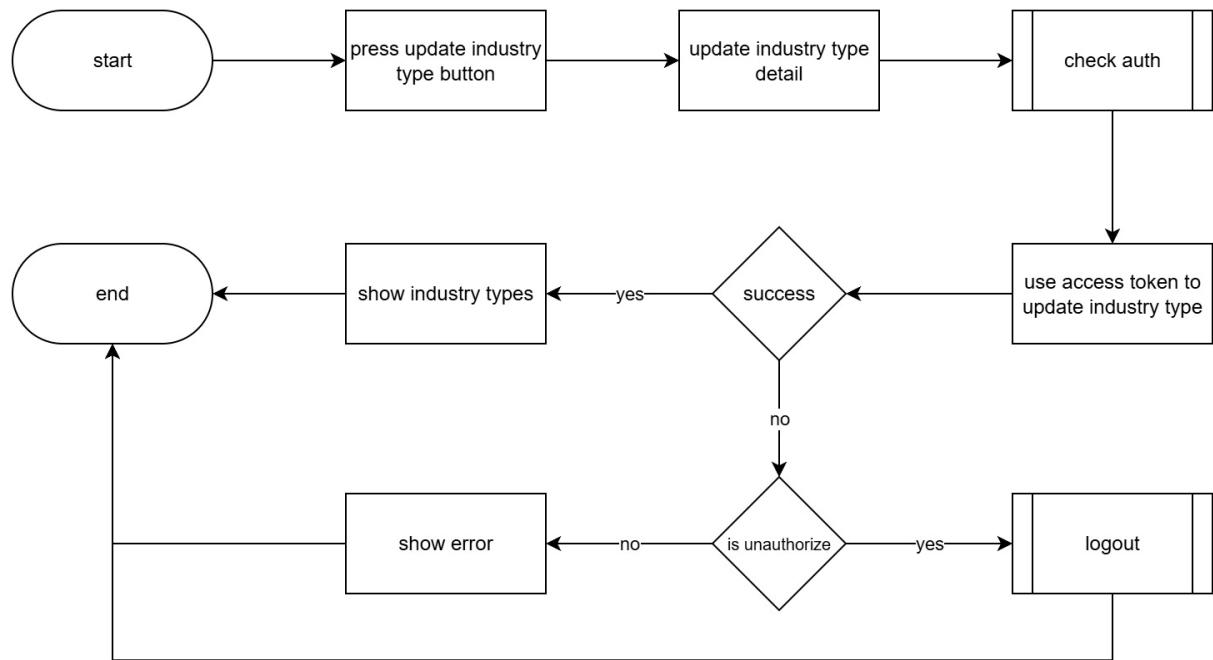
activity_baseadmin-24 delete income range



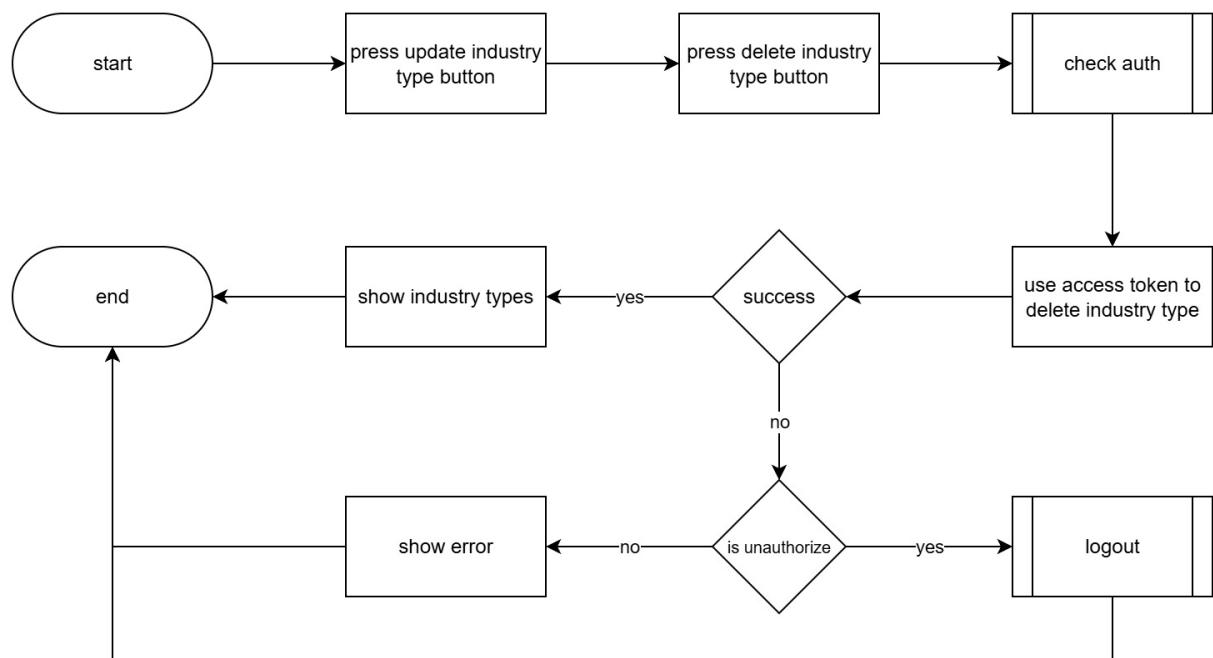
activity_baseadmin-25 create industry type



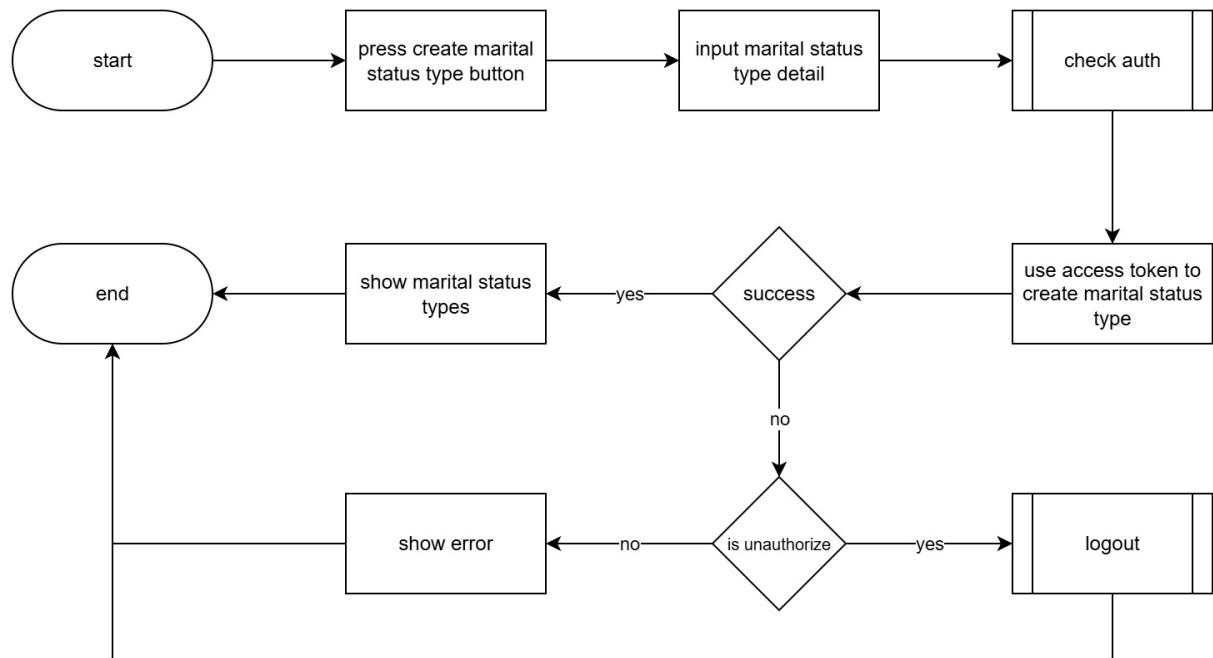
activity_baseadmin-26 read industry types



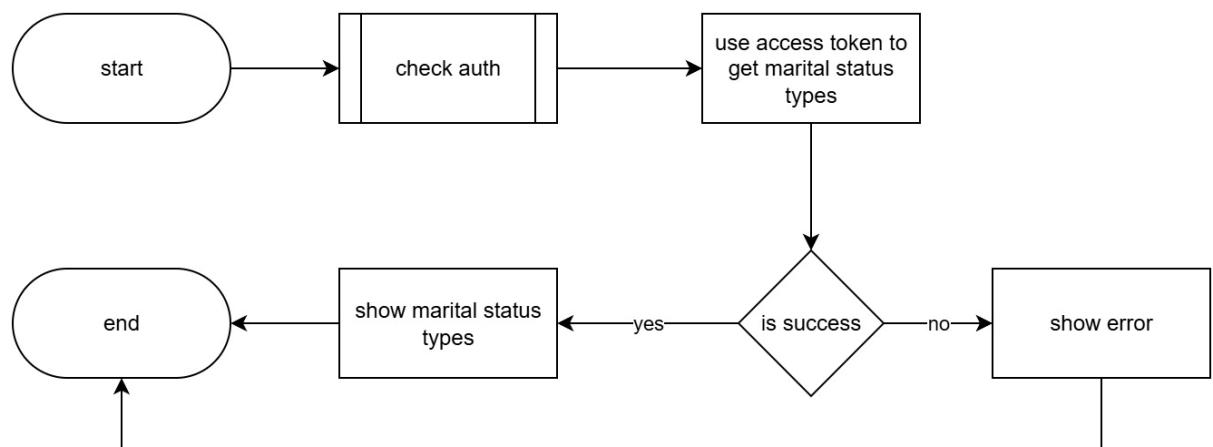
activity_baseadmin-27 update industry type



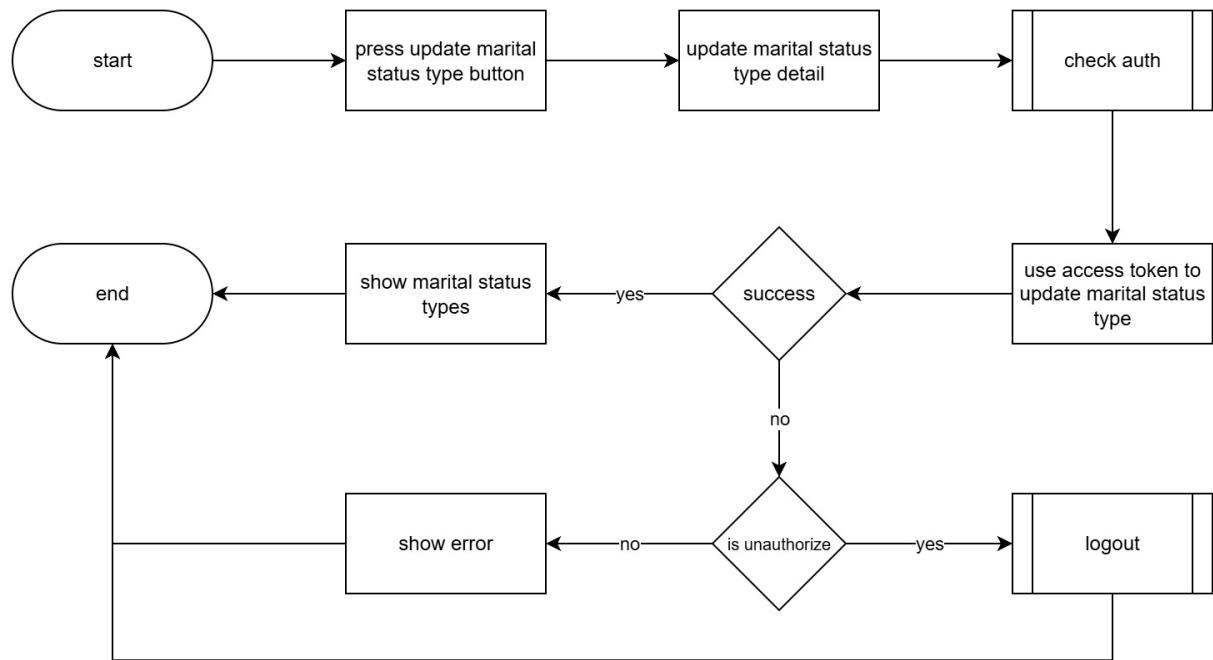
activity_baseadmin-28 delete industry type



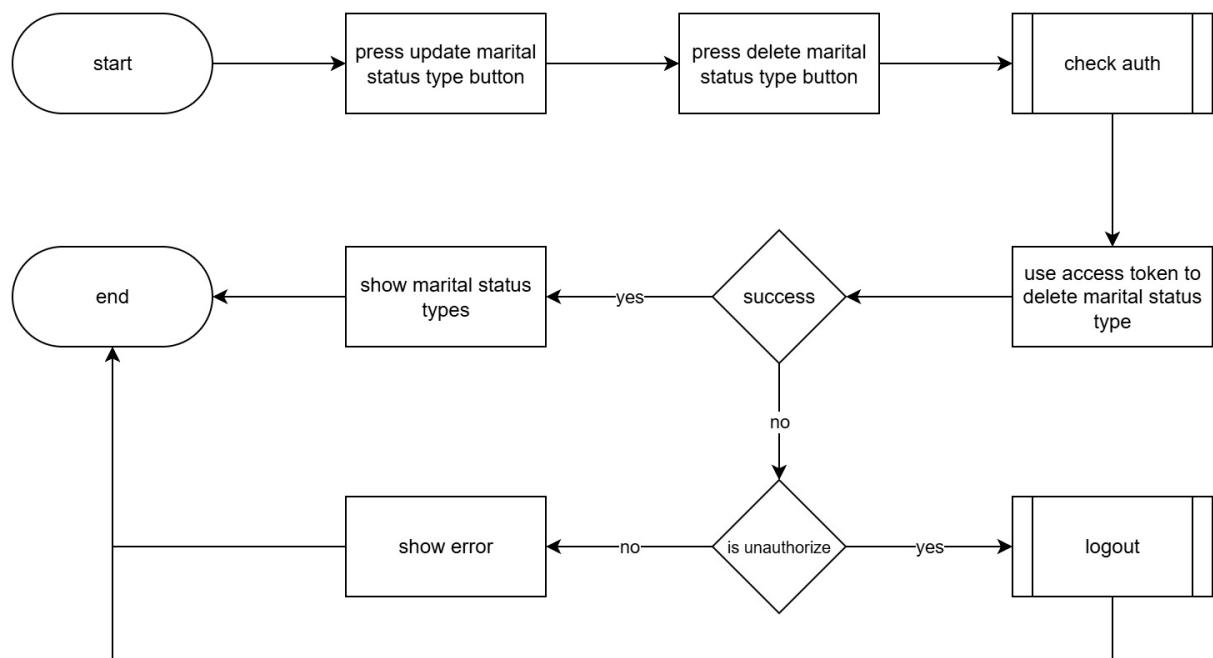
activity_baseadmin-29 create marital status type



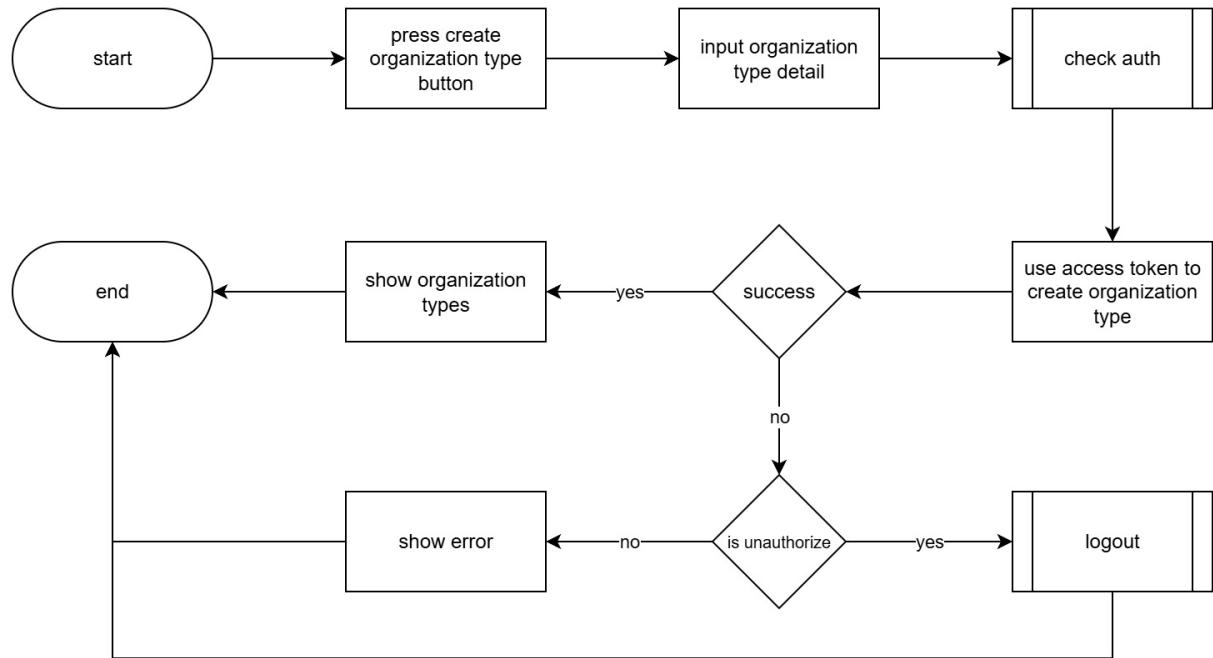
activity_baseadmin-30 read marital status types



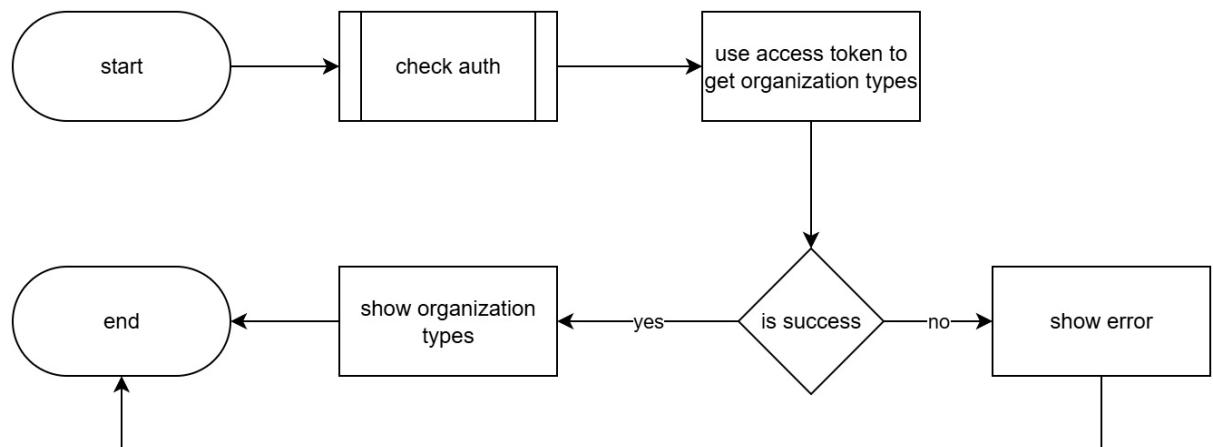
activity_baseadmin-31 update marital status type



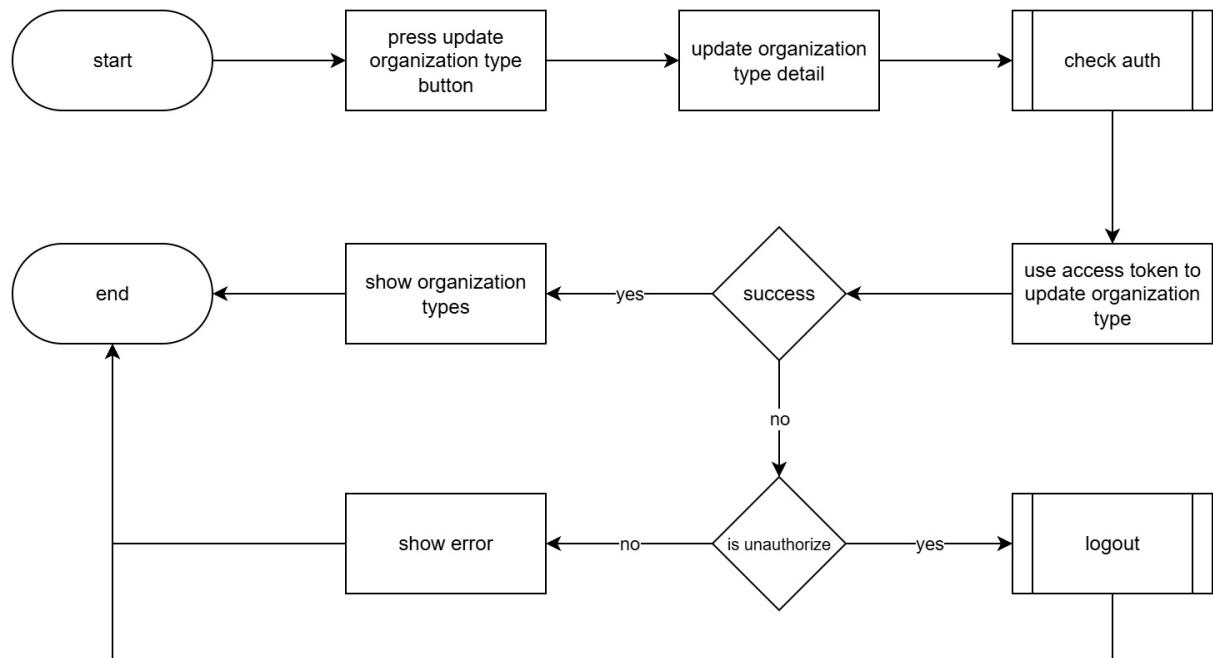
activity_baseadmin-32 delete marital status type



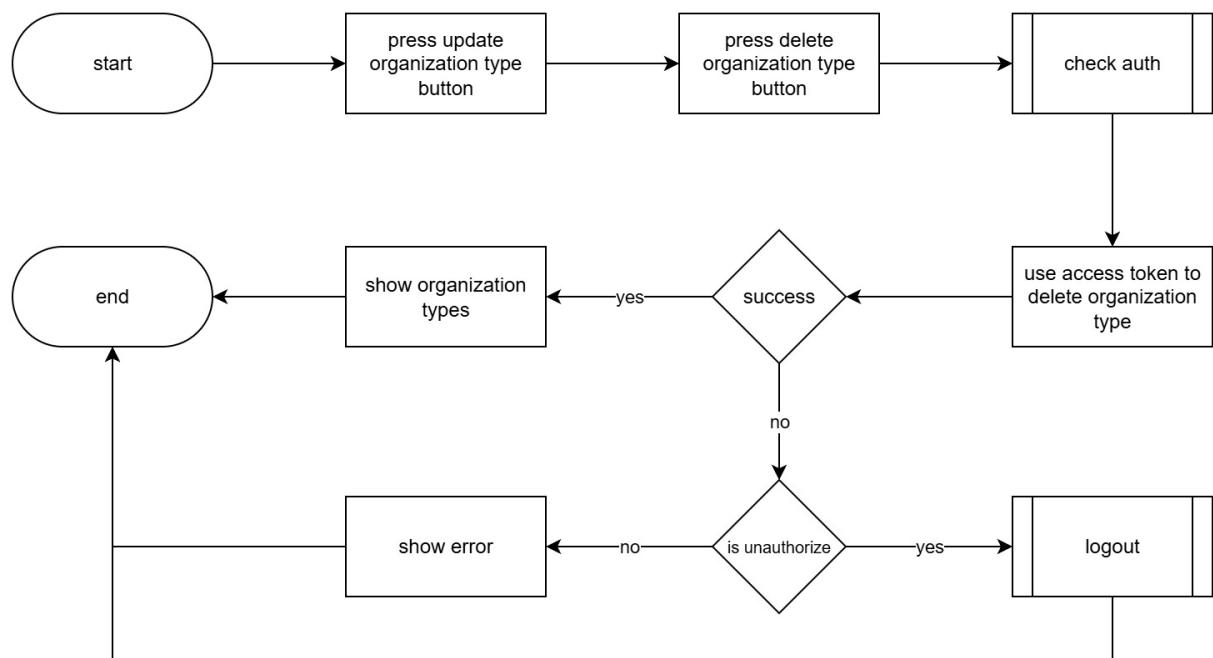
activity_baseadmin-33 create organization type



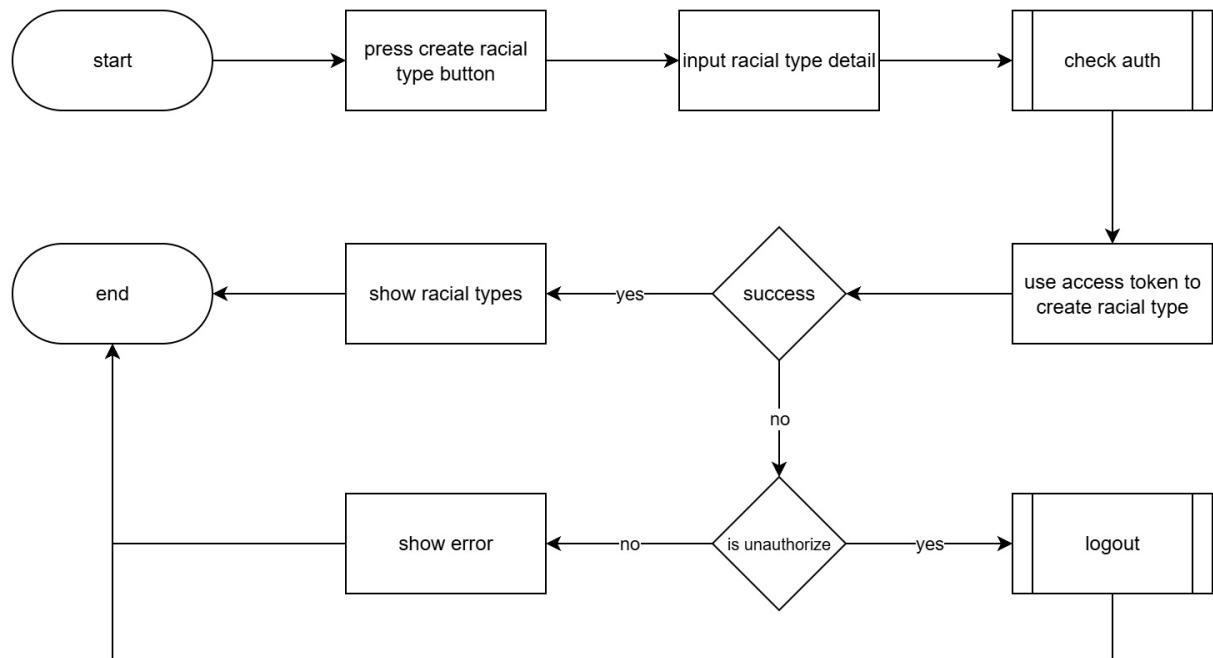
activity_baseadmin-34 read organization types



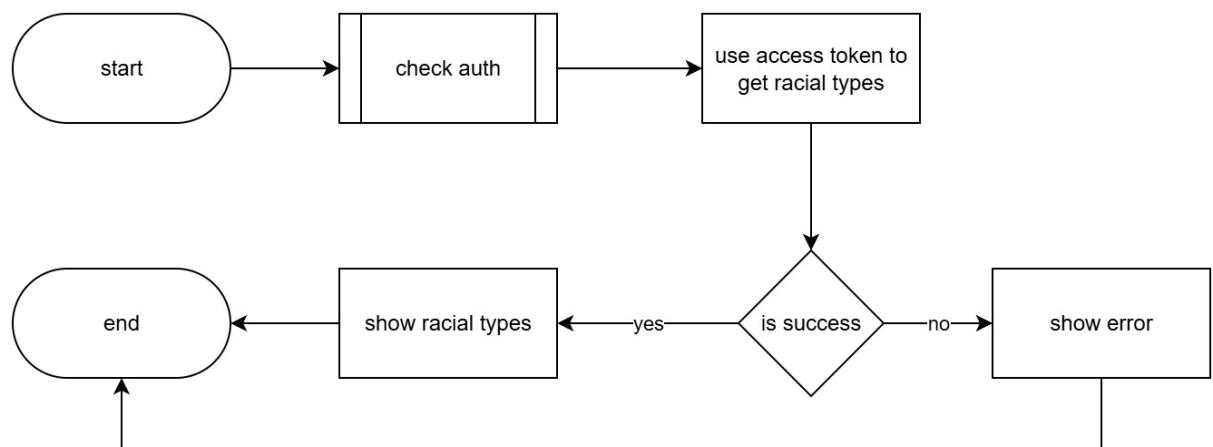
activity_baseadmin-35 update organization type



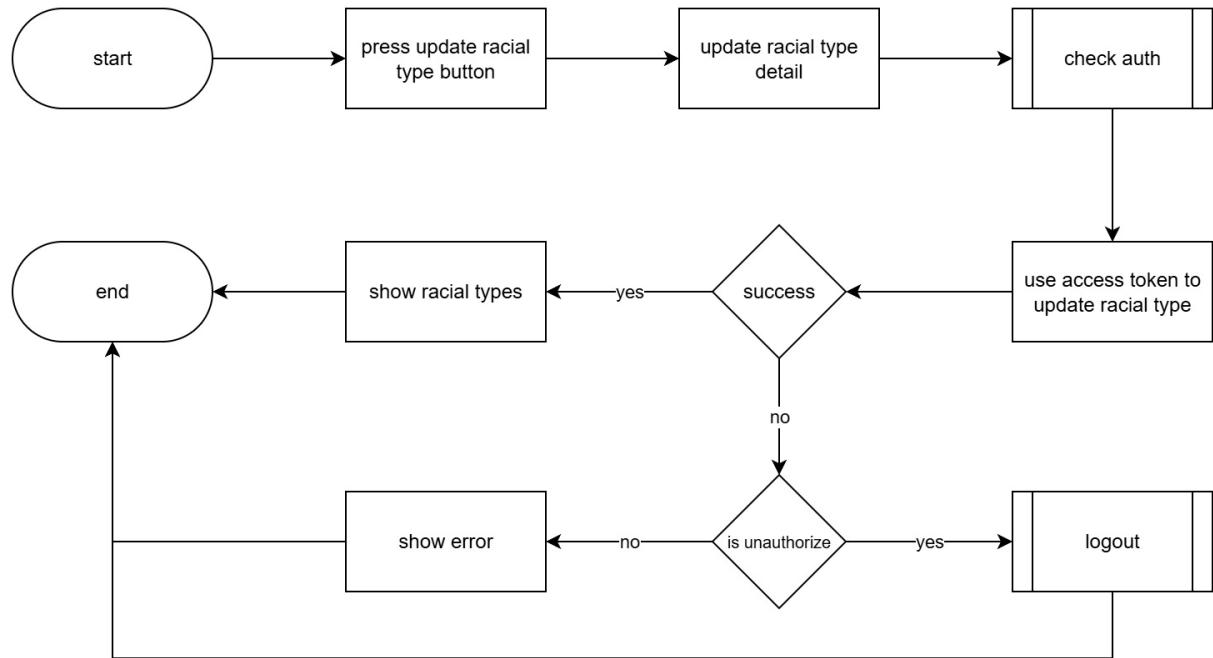
activity_baseadmin-36 delete organization type



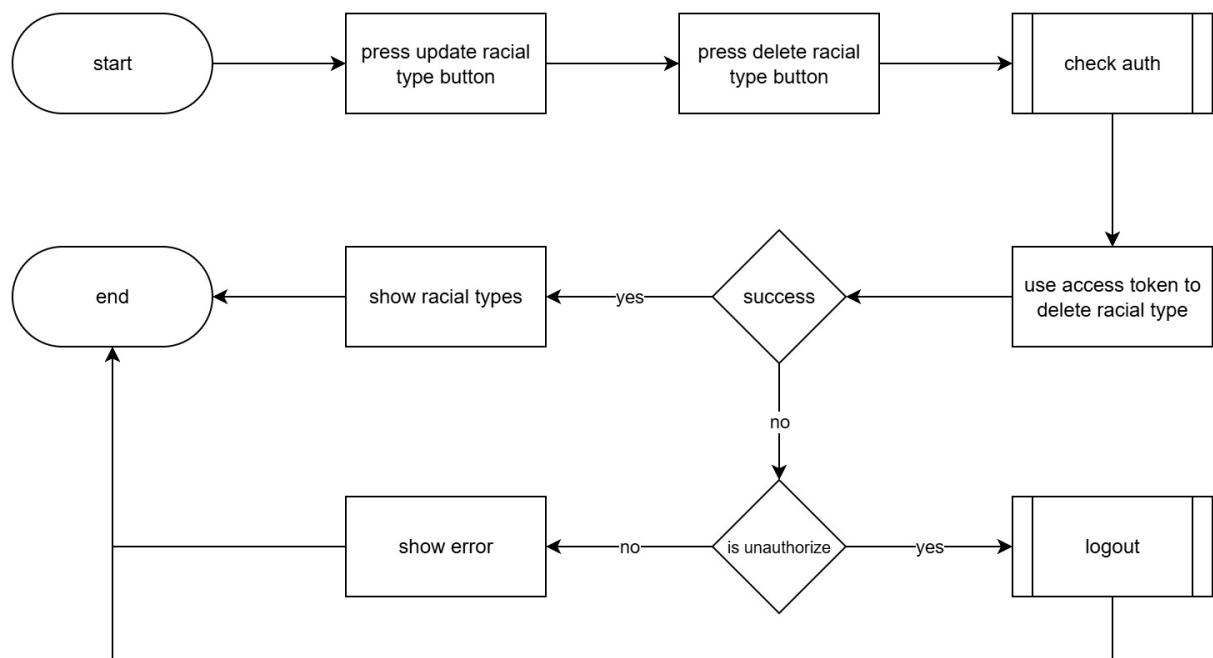
activity_baseadmin-37 create racial type



activity_baseadmin-38 read racial types

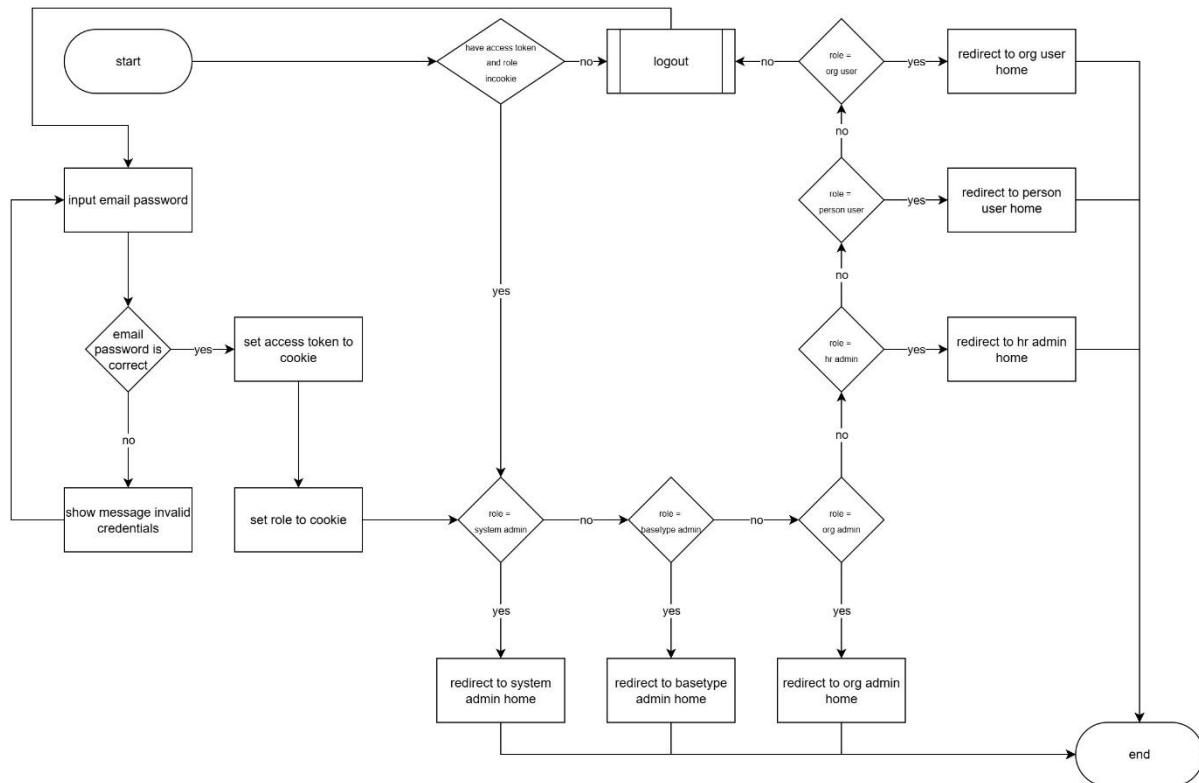


activity_baseadmin-39 update racial type

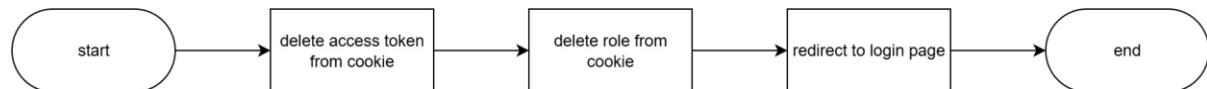


activity_baseadmin-40 delete racial type

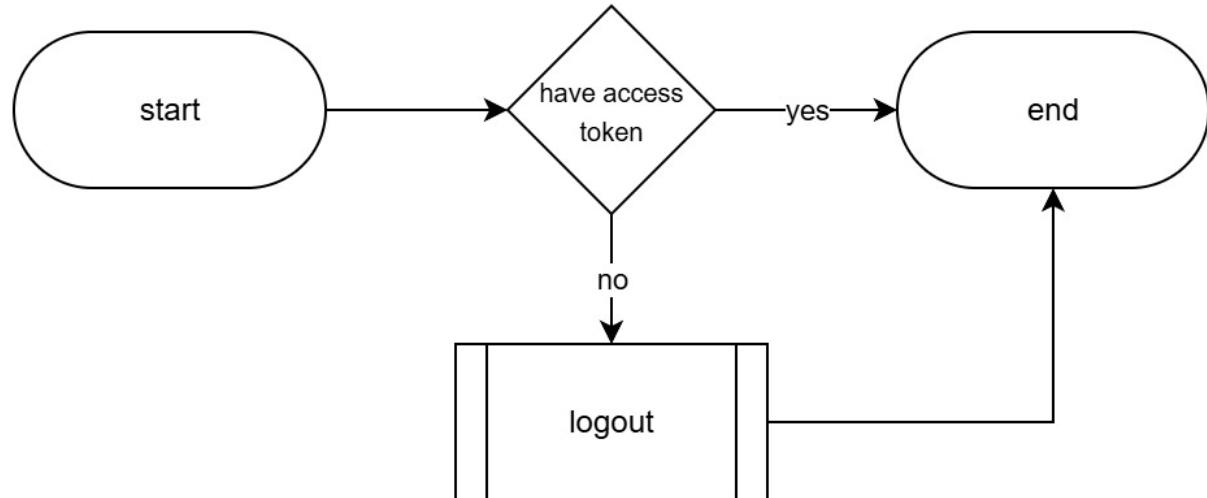
For General Purpose



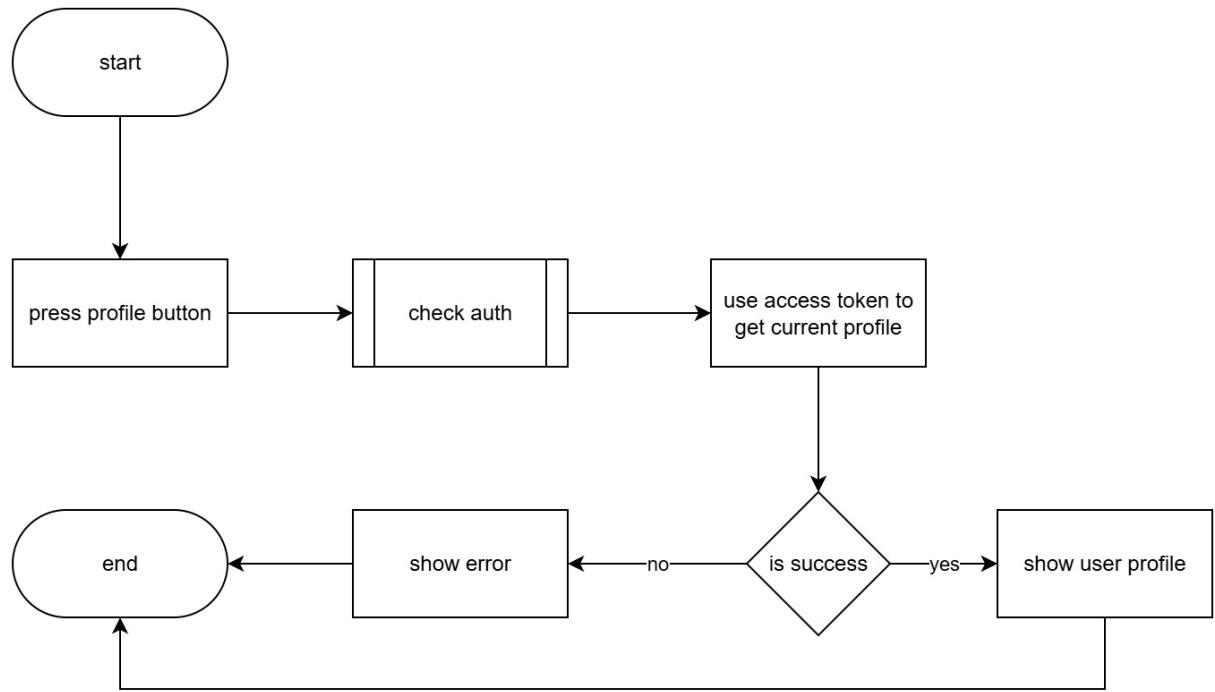
activity_general-1 root page



activity_general-2 logout

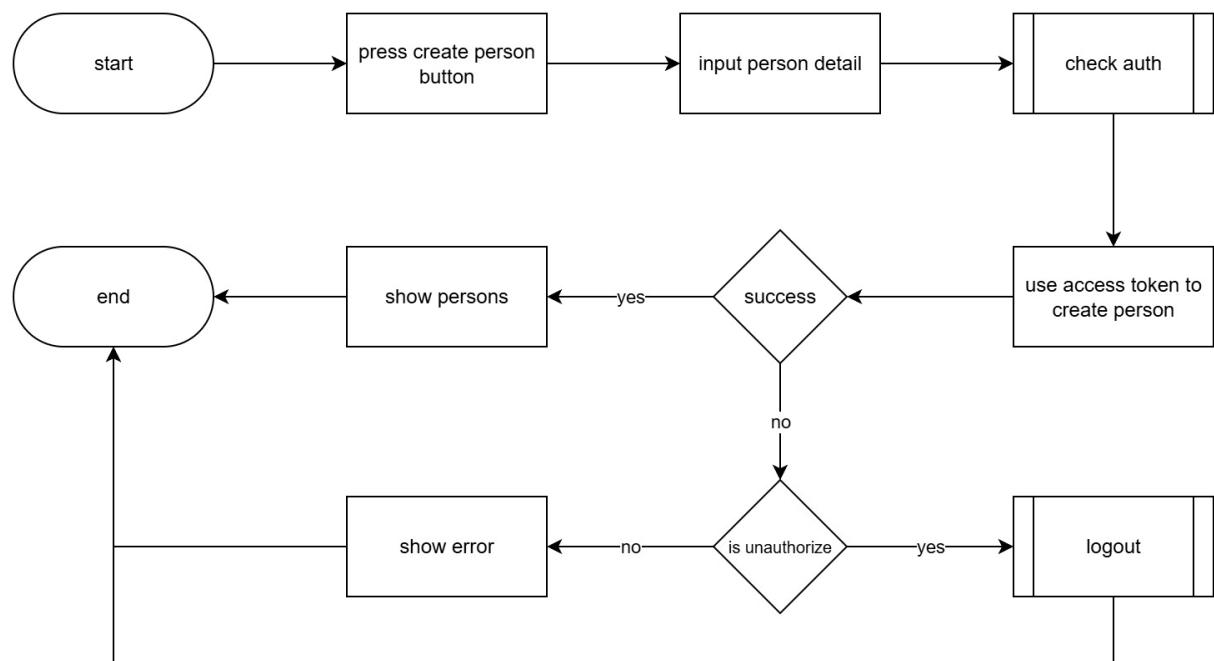


activity_general-3 check auth

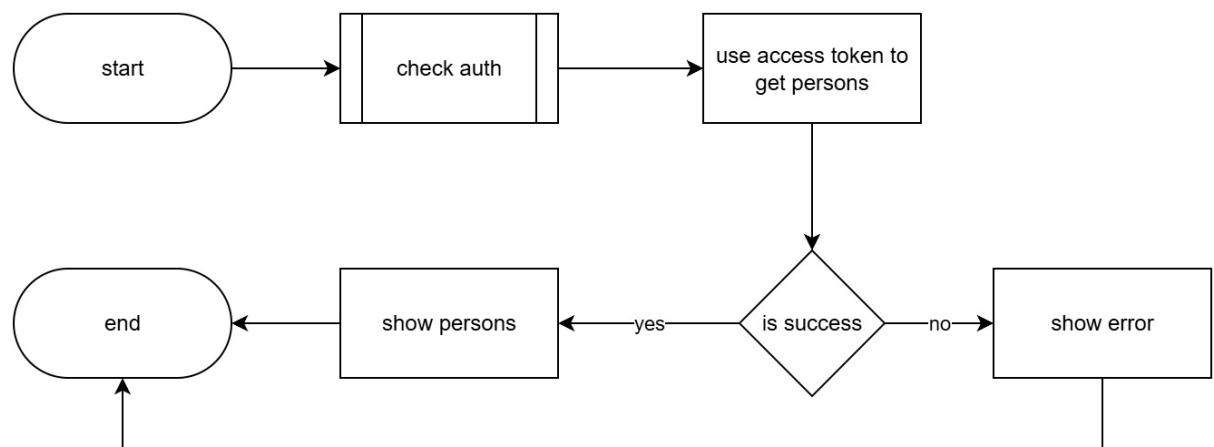


activity_general-4 each role profile

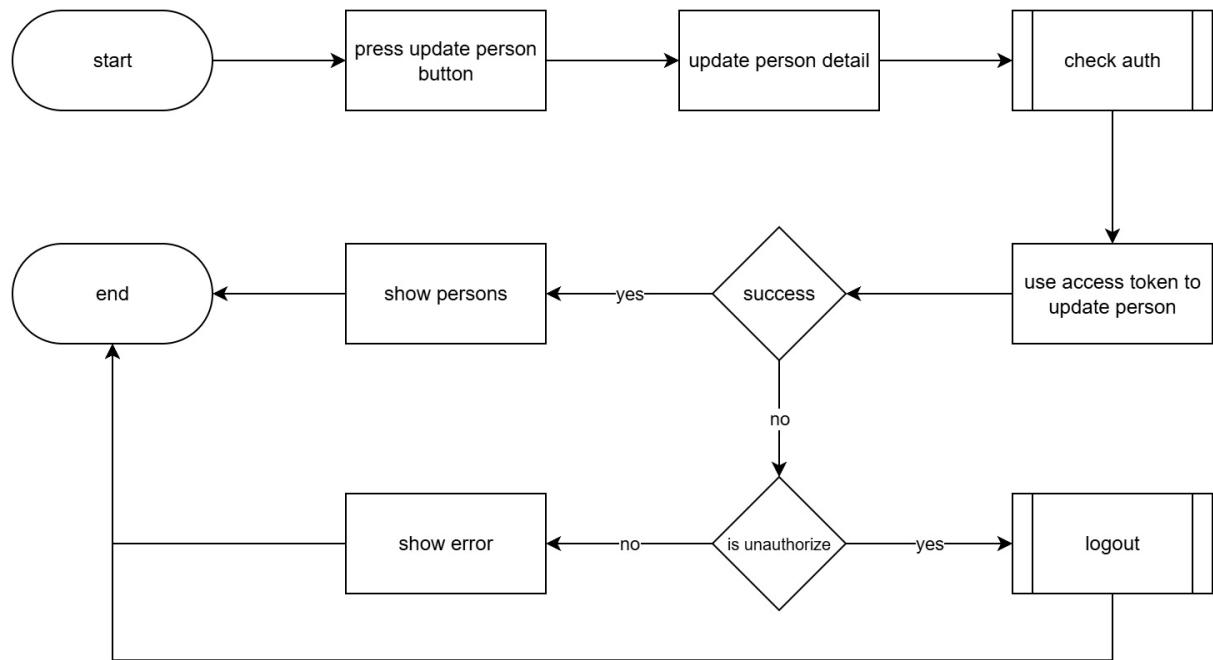
For HR Admin Role



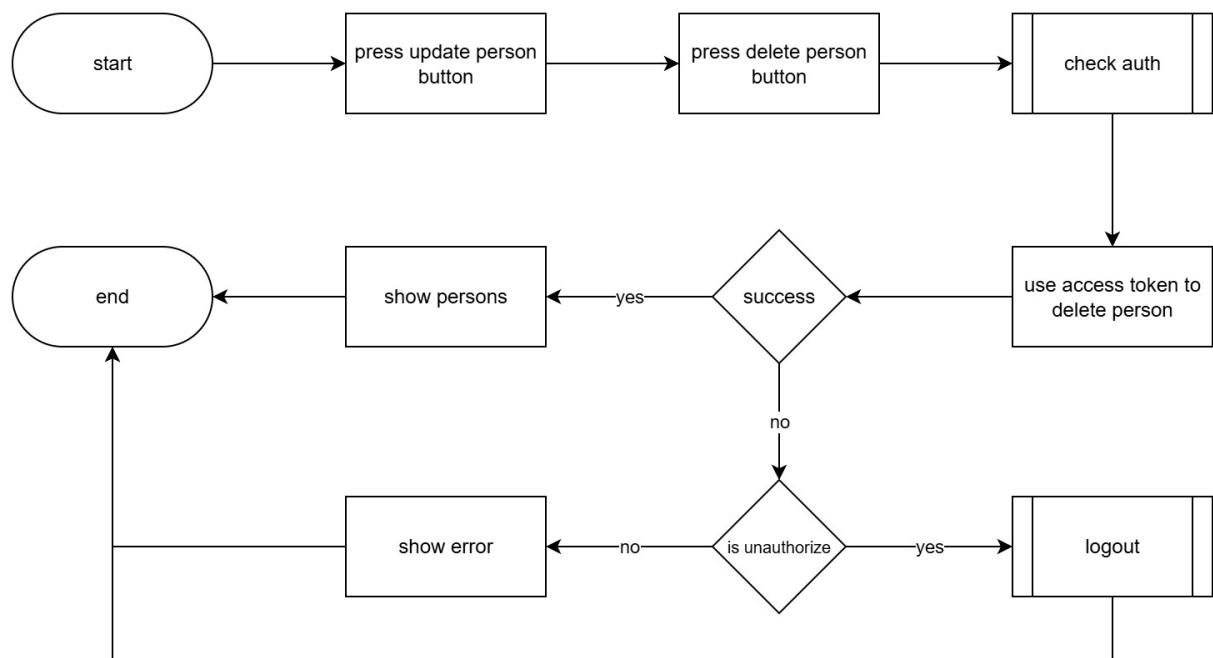
activity_hr_admin-1 create person



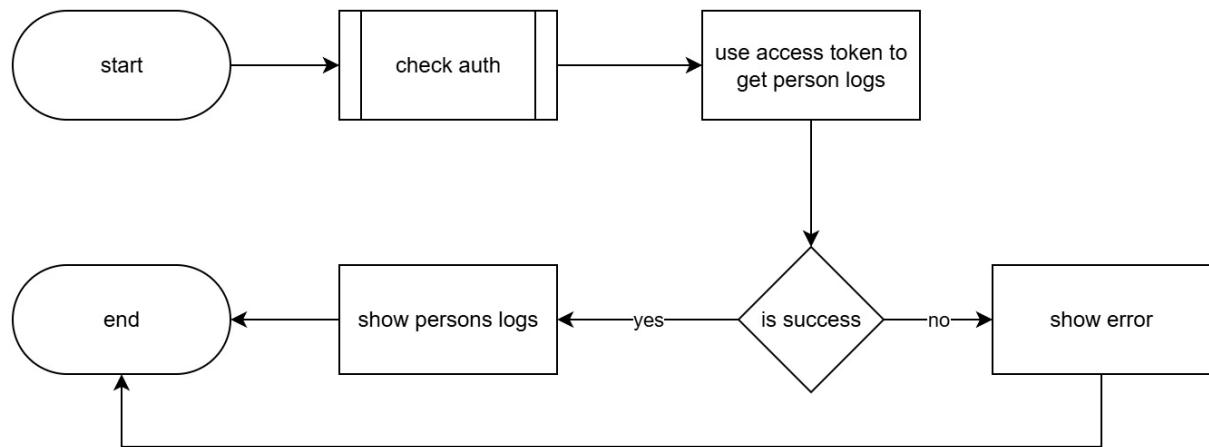
activity_hr_admin-2 read persons



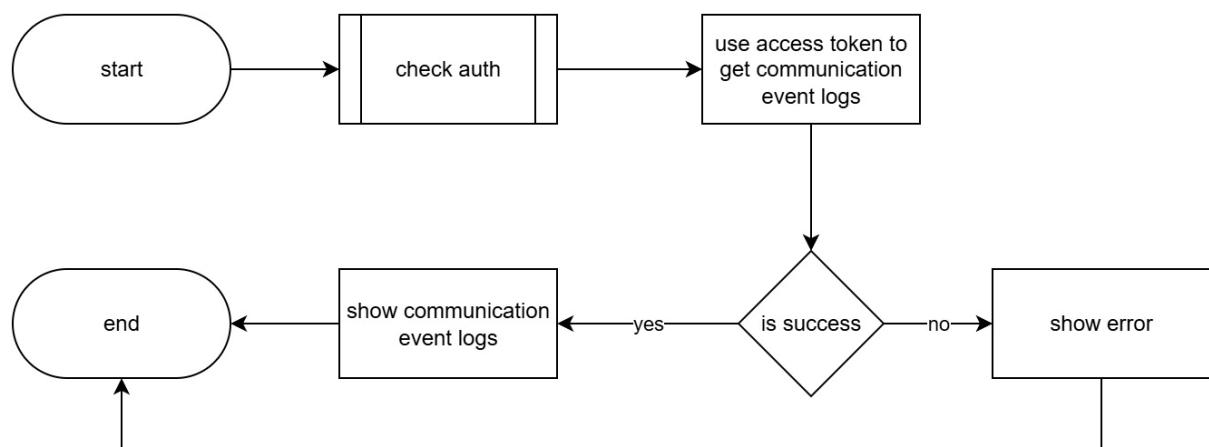
activity_hr_admin-3 update person



activity_hr_admin-4 delete person

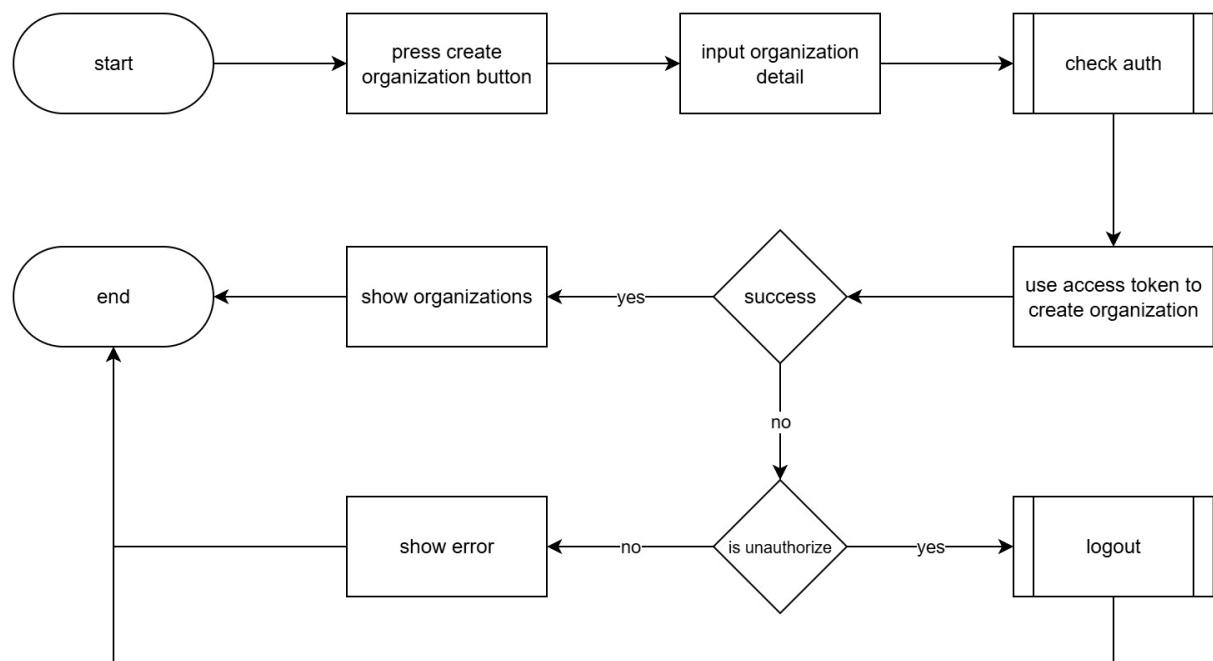


activity_hr_admin-5 read persons log

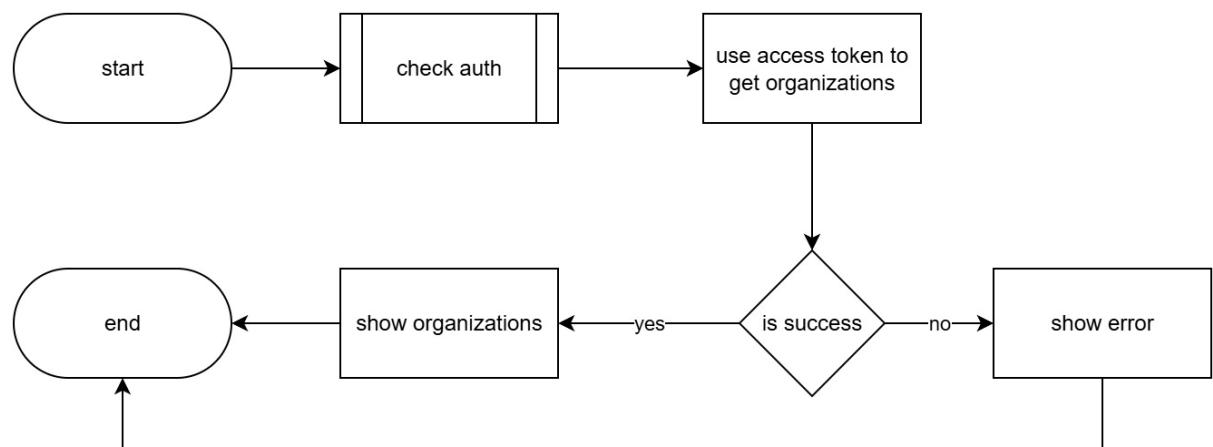


activity_hr_admin-6 read communication events log

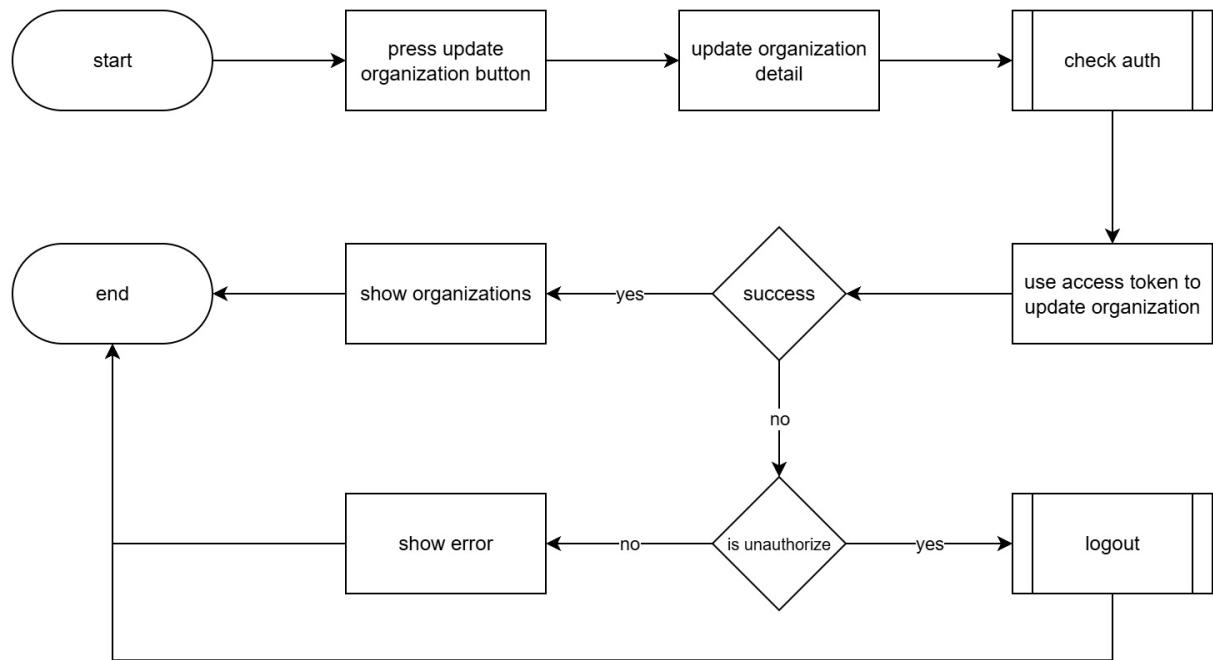
For Organization Admin



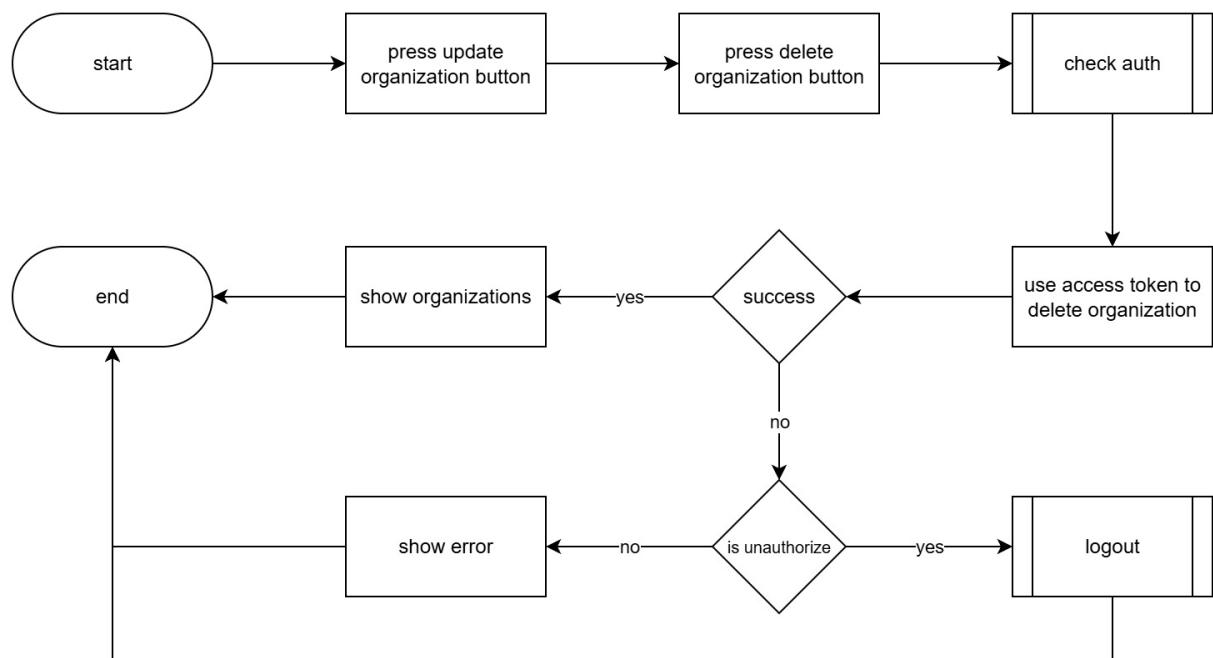
activity_organization_admin-1 create organization



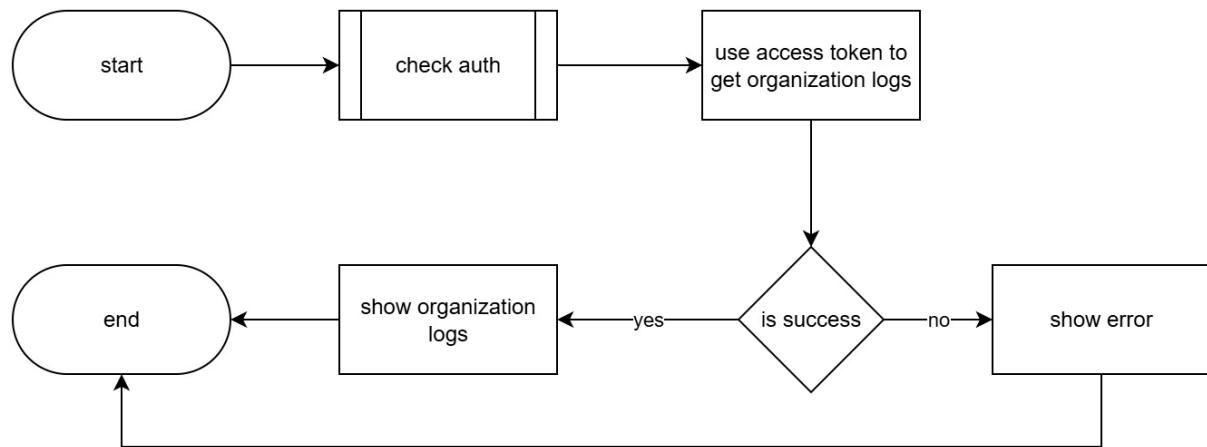
activity_organization_admin-2 read organizations



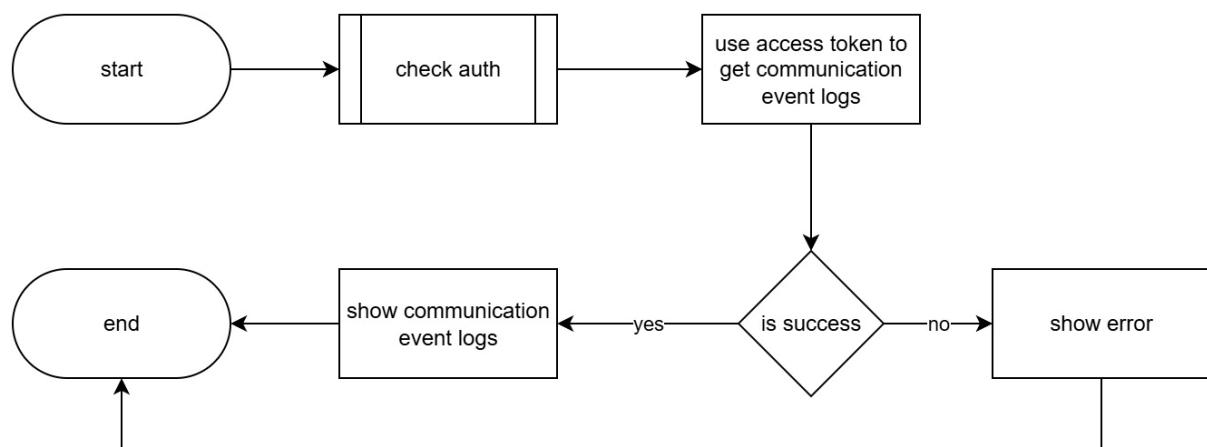
activity_organization_admin-3 update organization



activity_organization_admin-4 delete organization

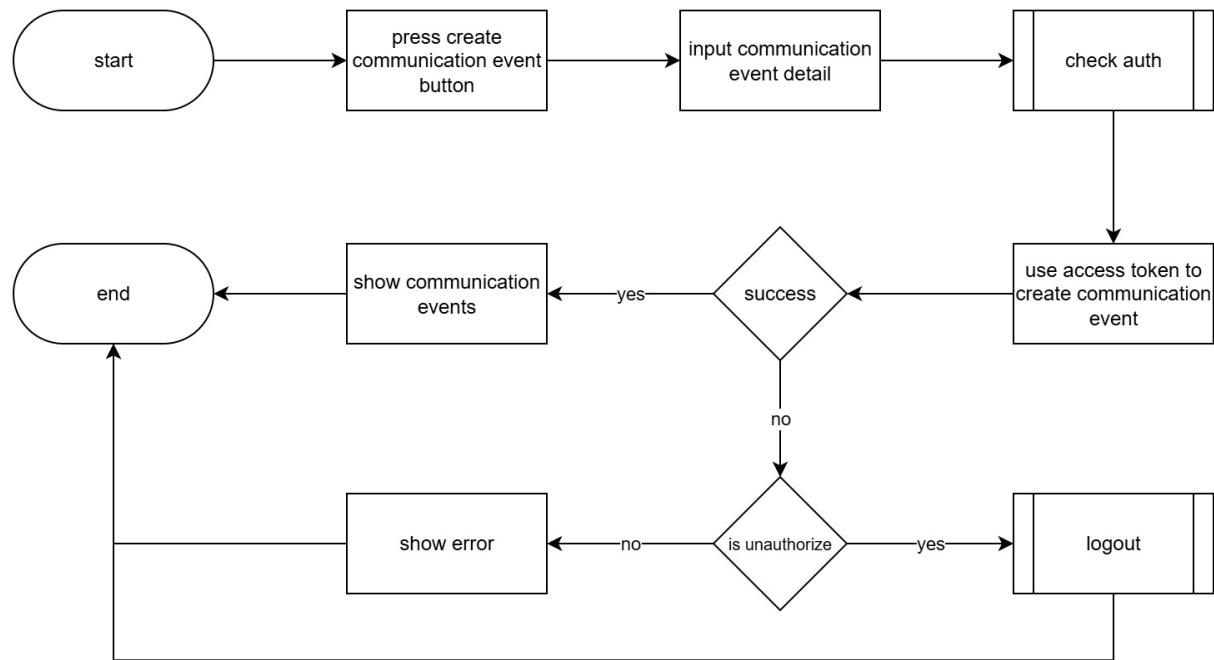


activity_organization_admin-5 read organization logs

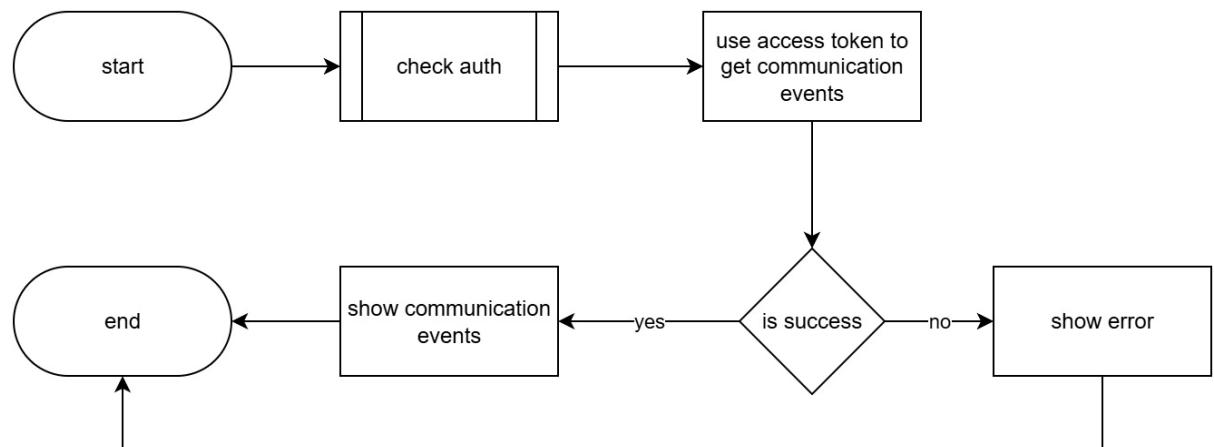


activity_organization_admin-6 read communication event logs

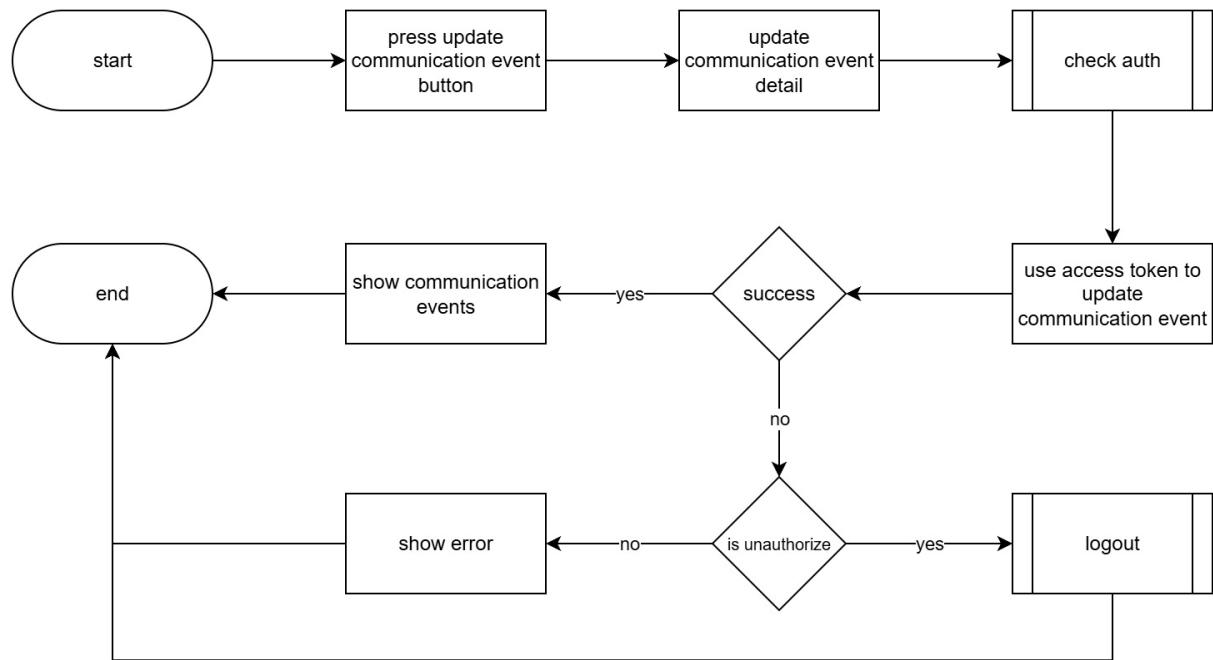
For Organization and Person User Role



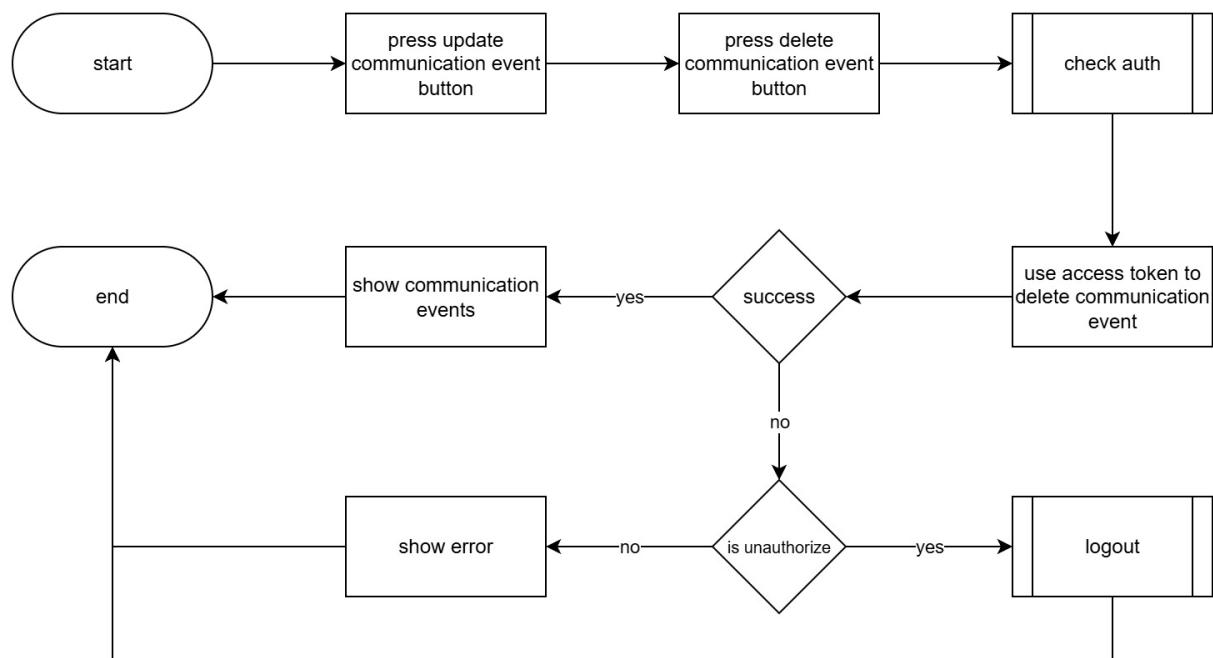
activity_person_organization_user-1 create communication event



activity_person_organization_user-2 read communication events

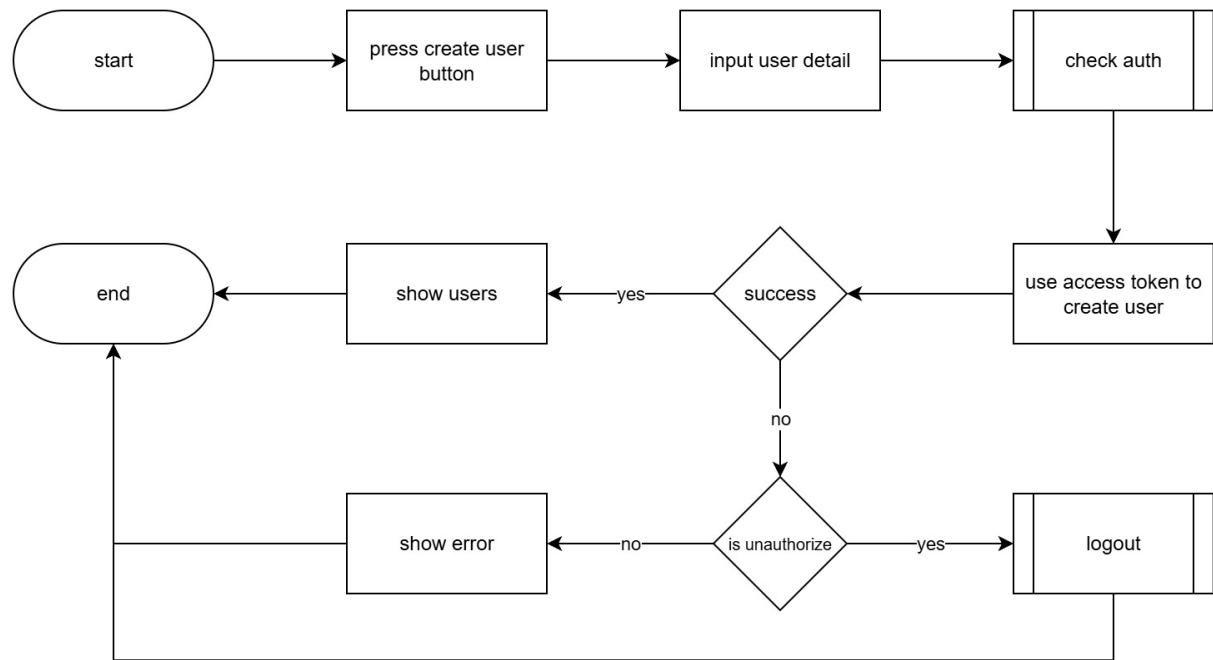


activity_person_organization_user-3 update communication event

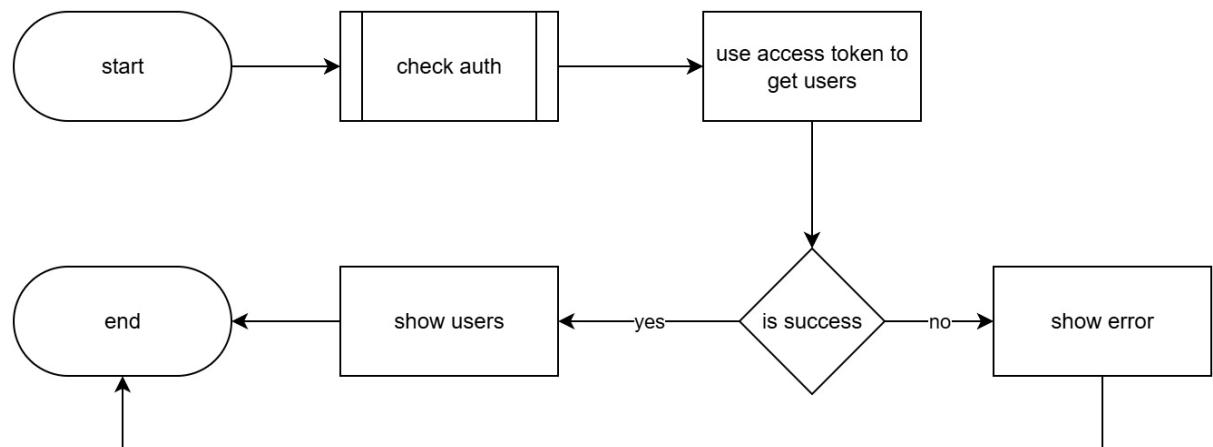


activity_person_organization_user-4 delete communication event

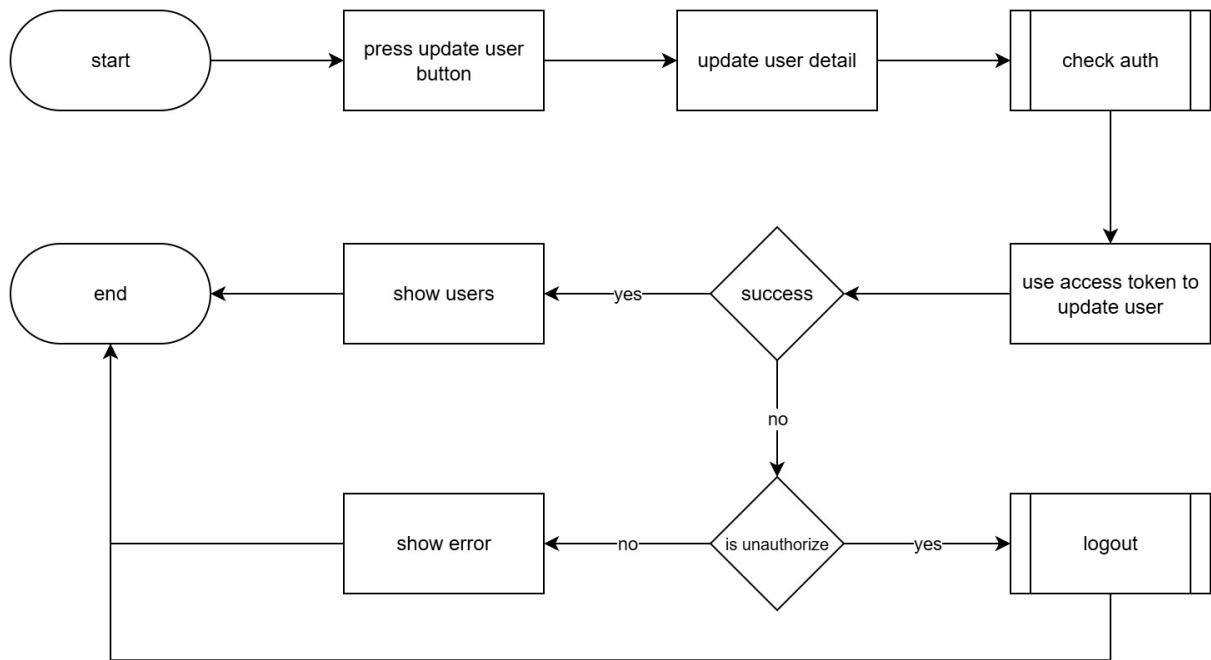
For System Admin Role



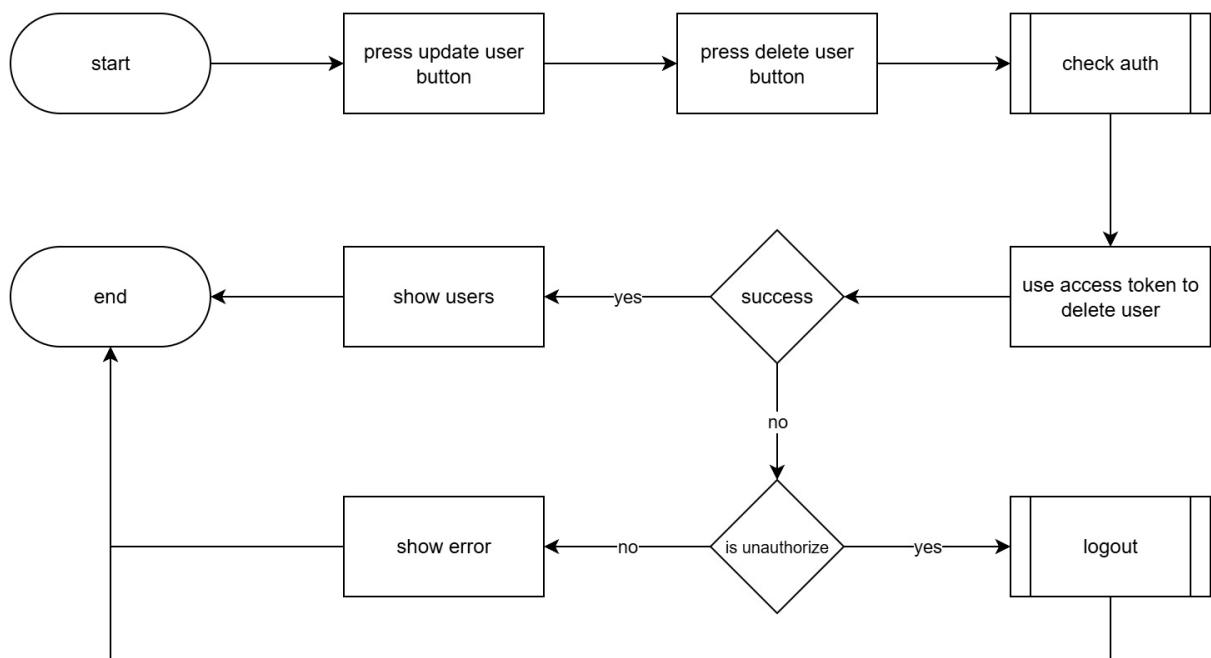
activity_sysadmin-1 create user



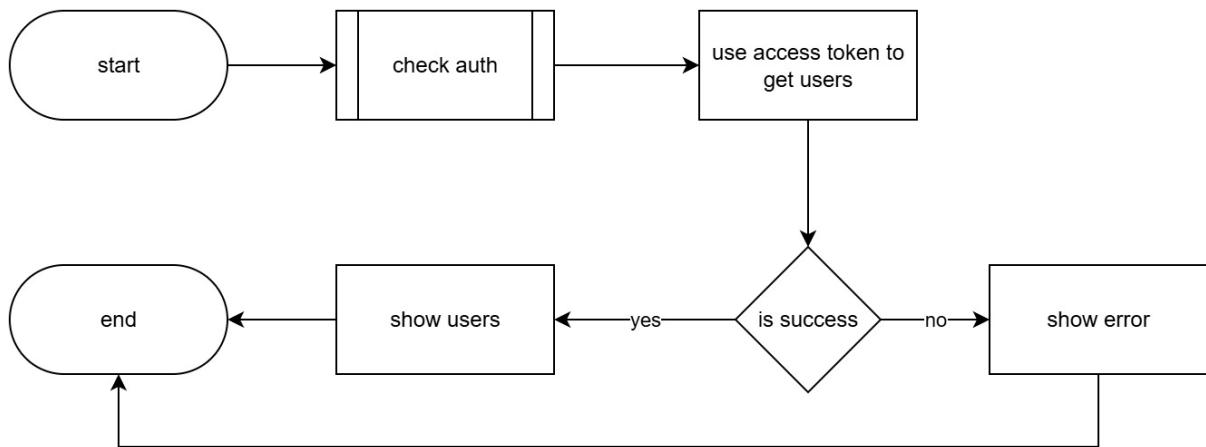
activity_sysadmin-2 read users



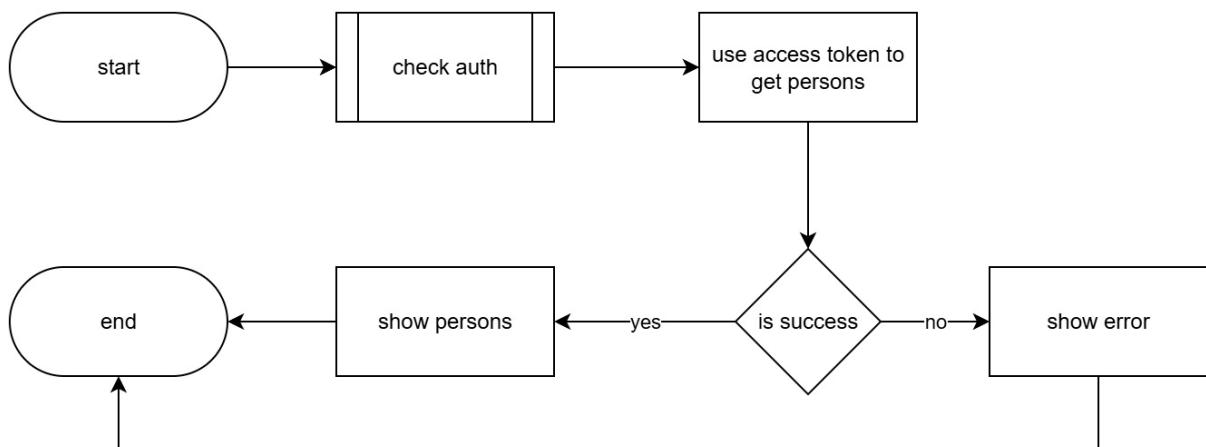
activity_sysadmin-3 update user



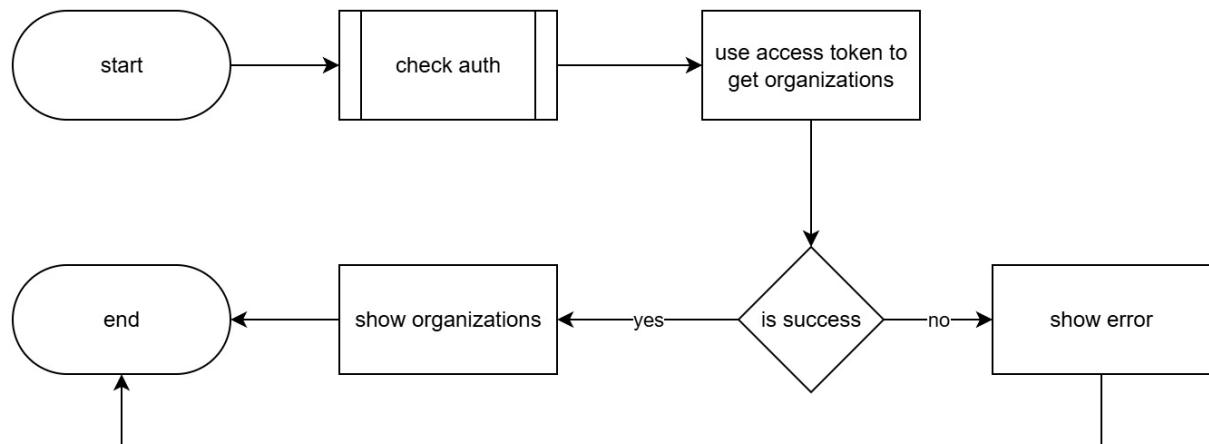
activity_sysadmin-4 delete user



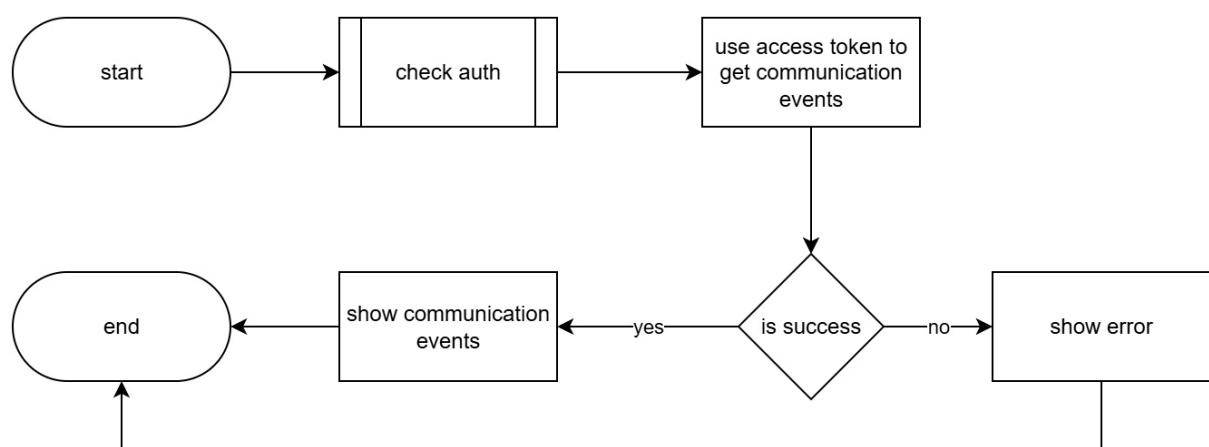
activity_sysadmin-5 read users log



activity_sysadmin-6 read persons log

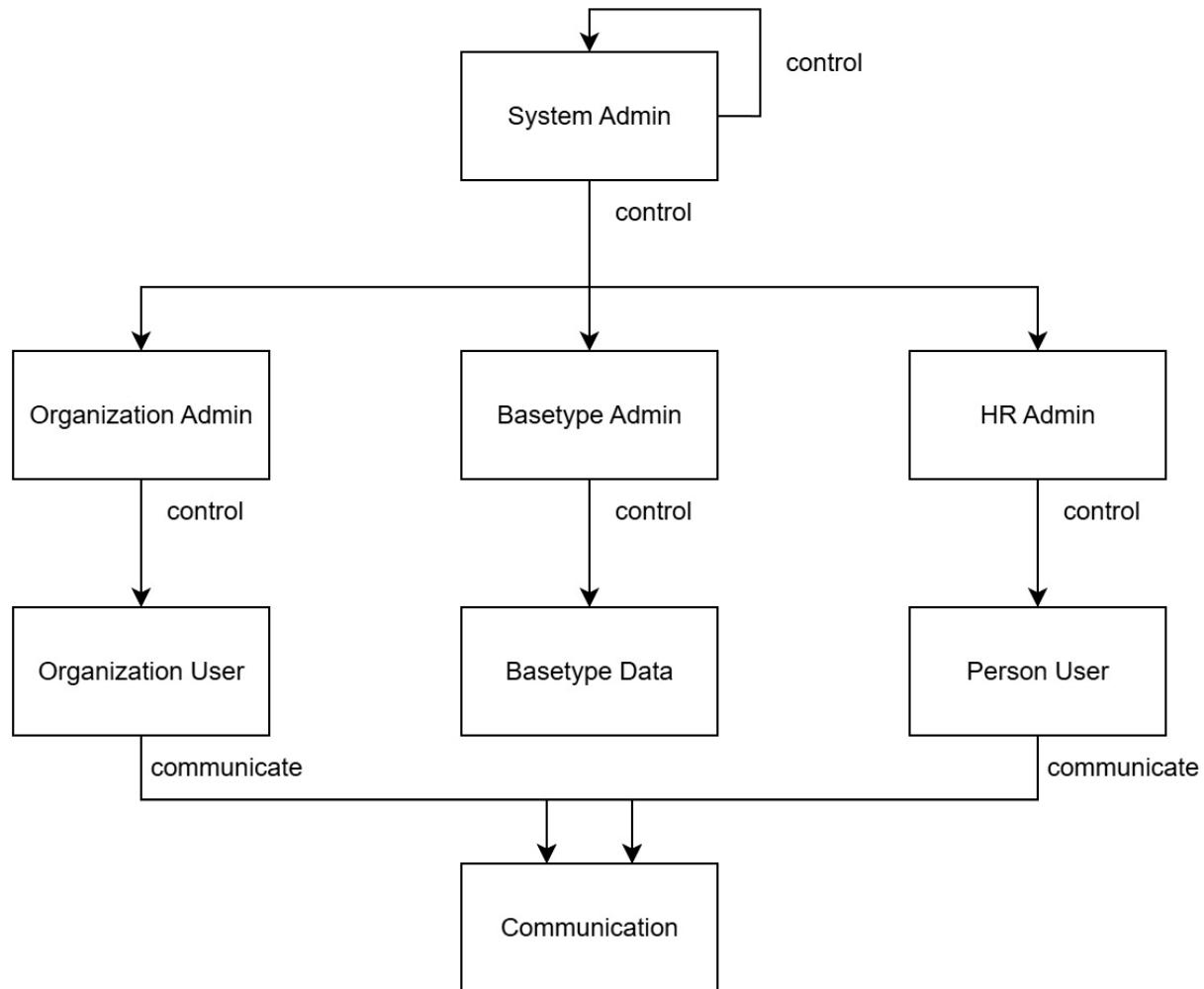


activity_sysadmin-7 read organizations log



activity_sysadmin-8 read communication events log

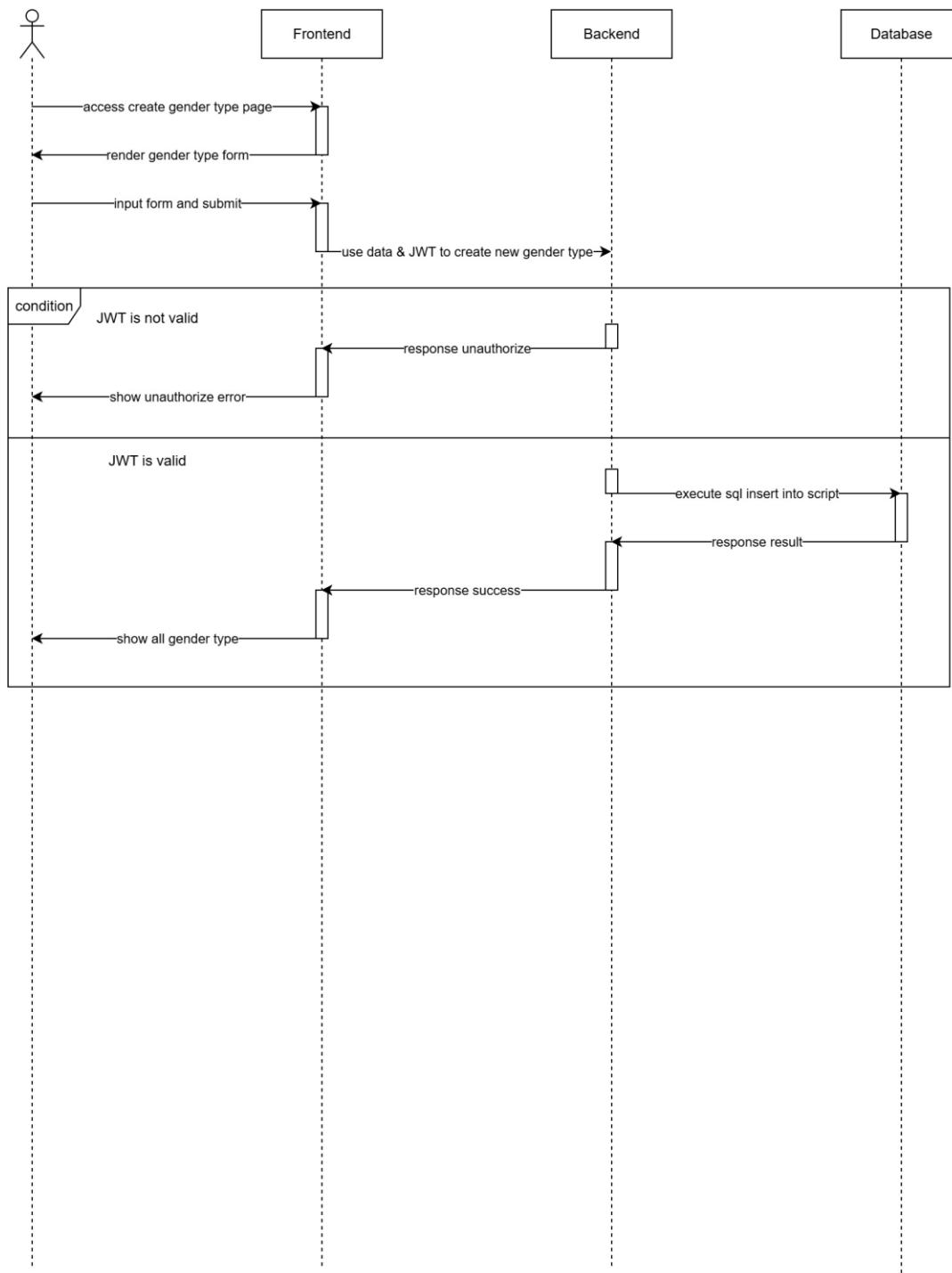
Role Chart Diagram



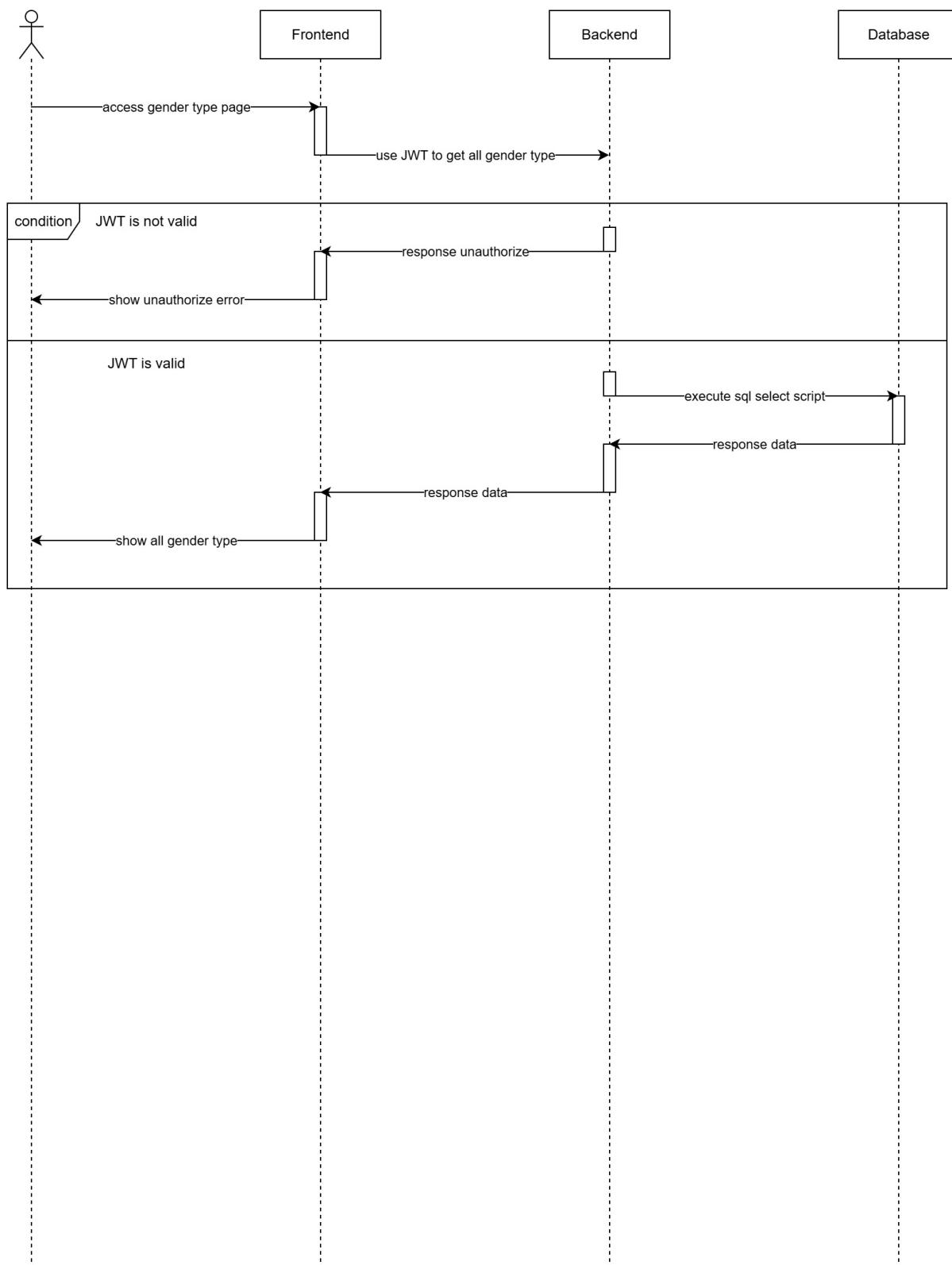
Role Chart Diagram show role ... can control role ...

Sequence Diagram

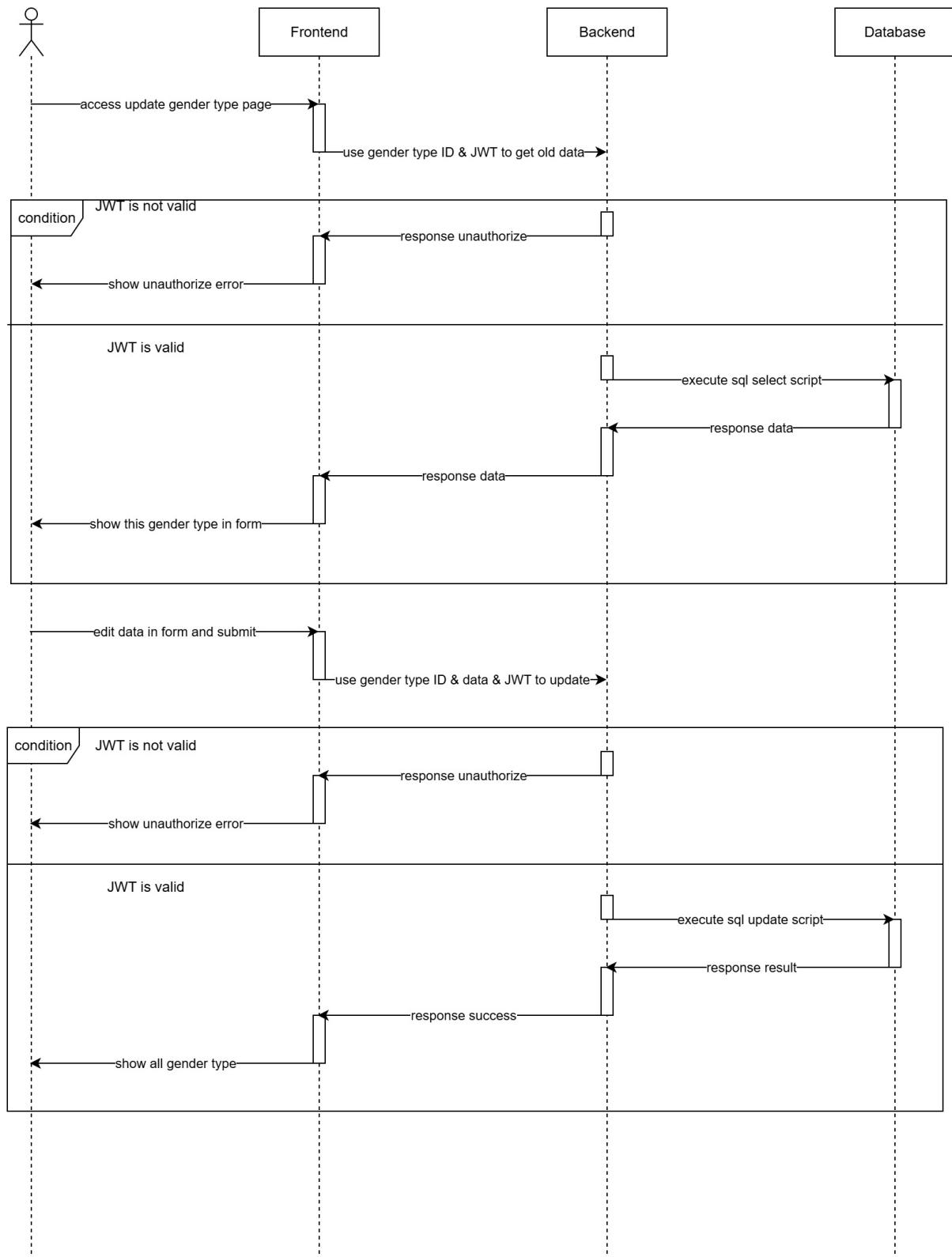
For base type admin



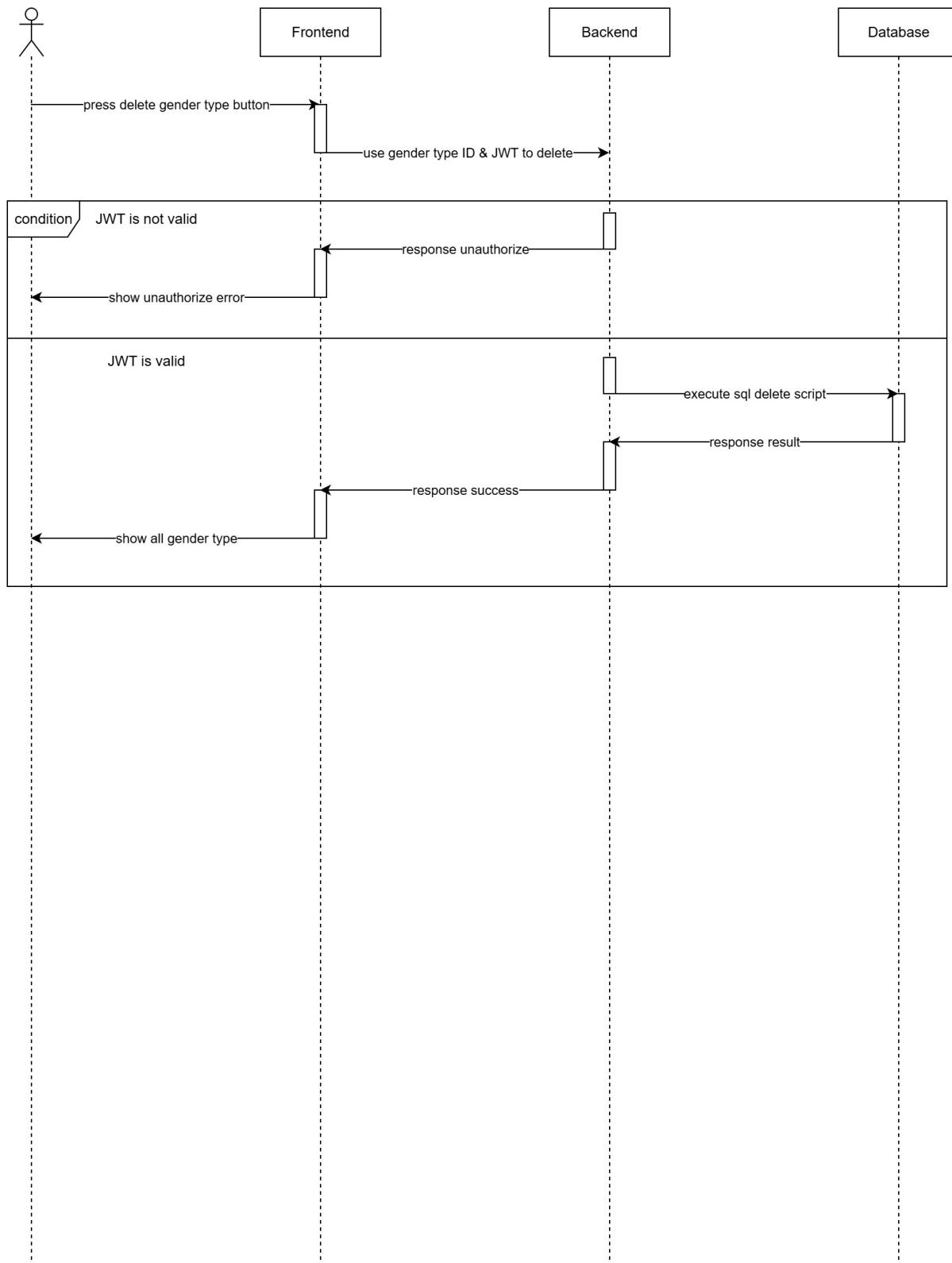
sequence_basetype_admin-1 create gender type



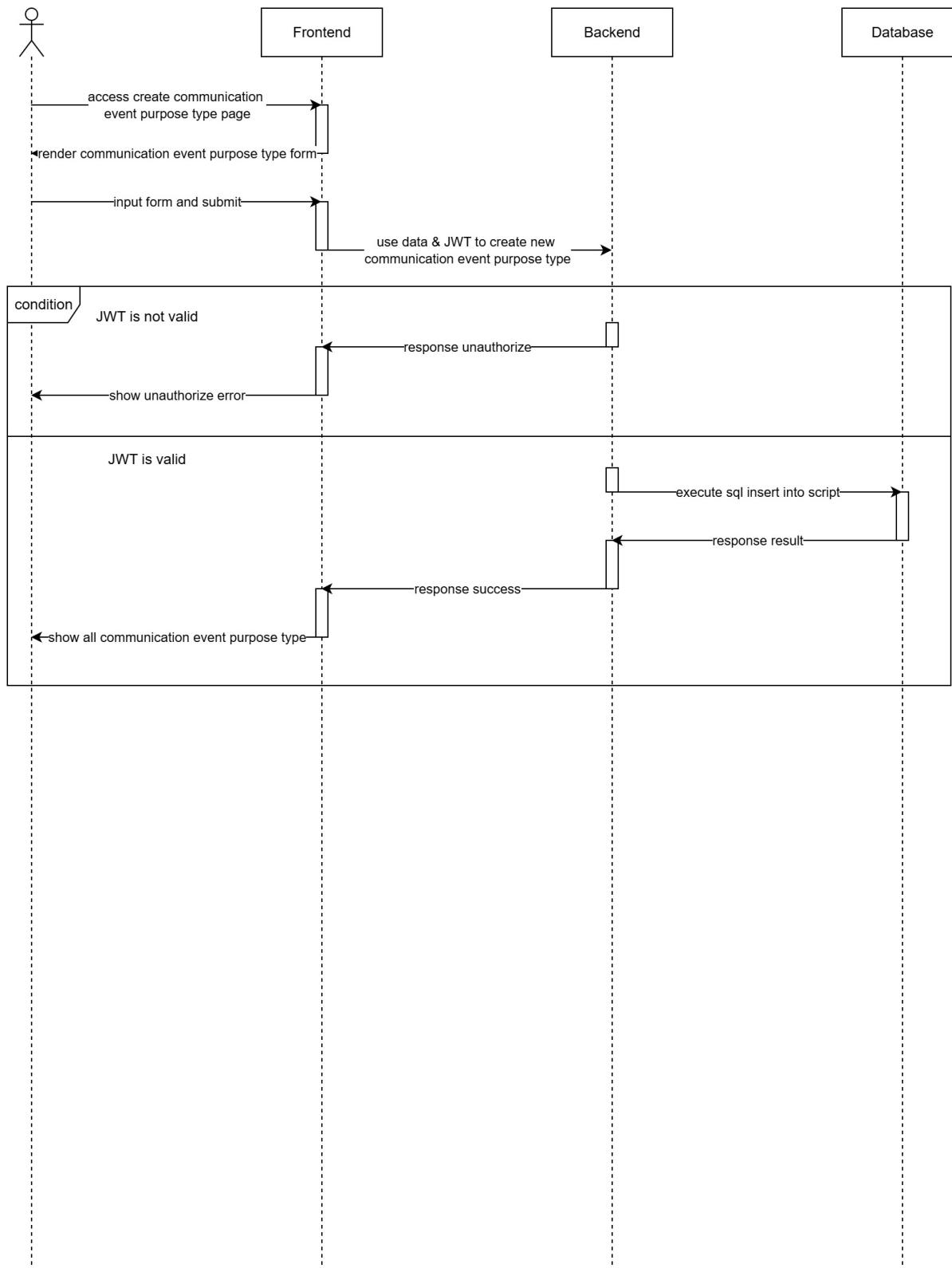
sequence_basetype_admin-2 read gender type



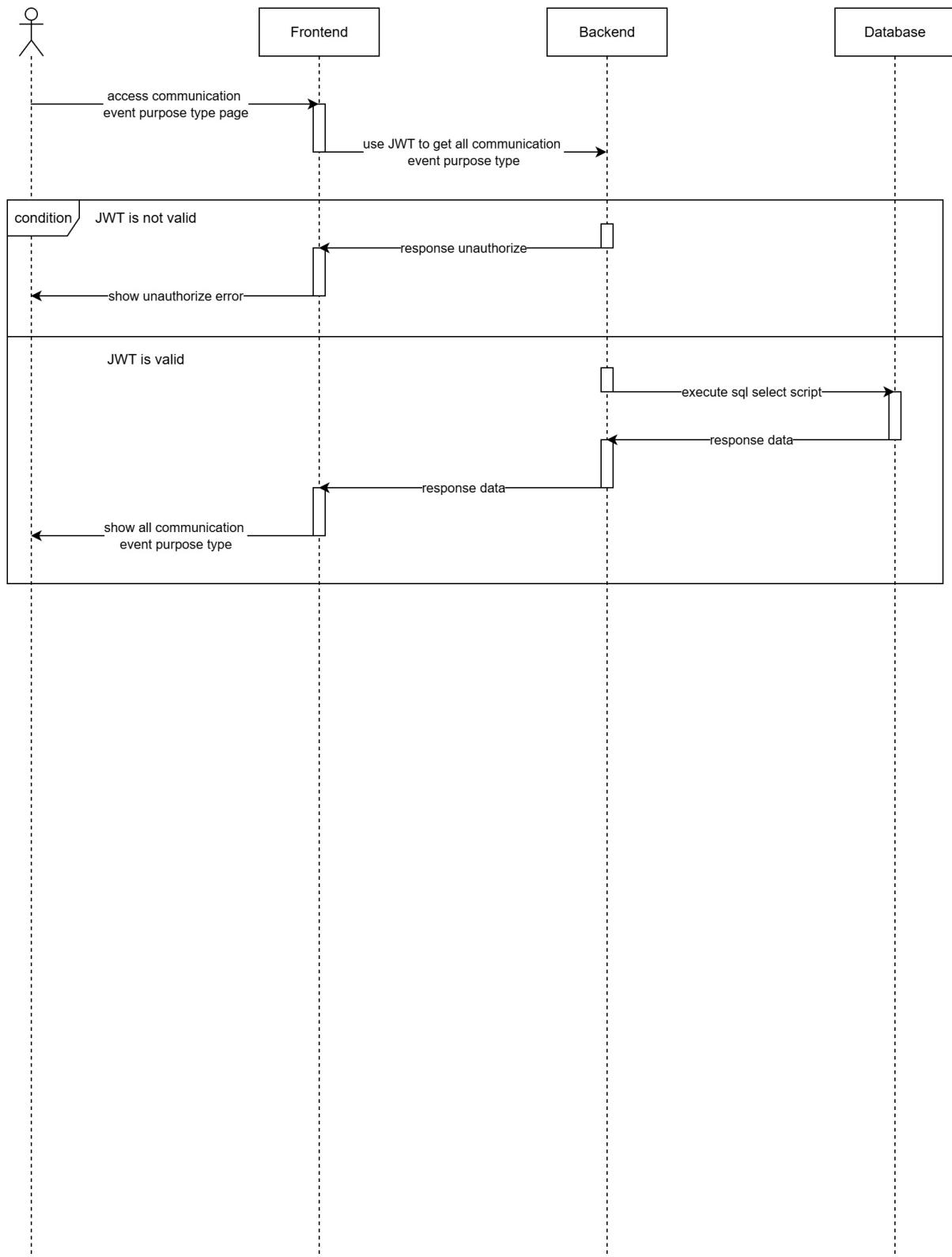
sequence_basetype_admin-3 update gender type



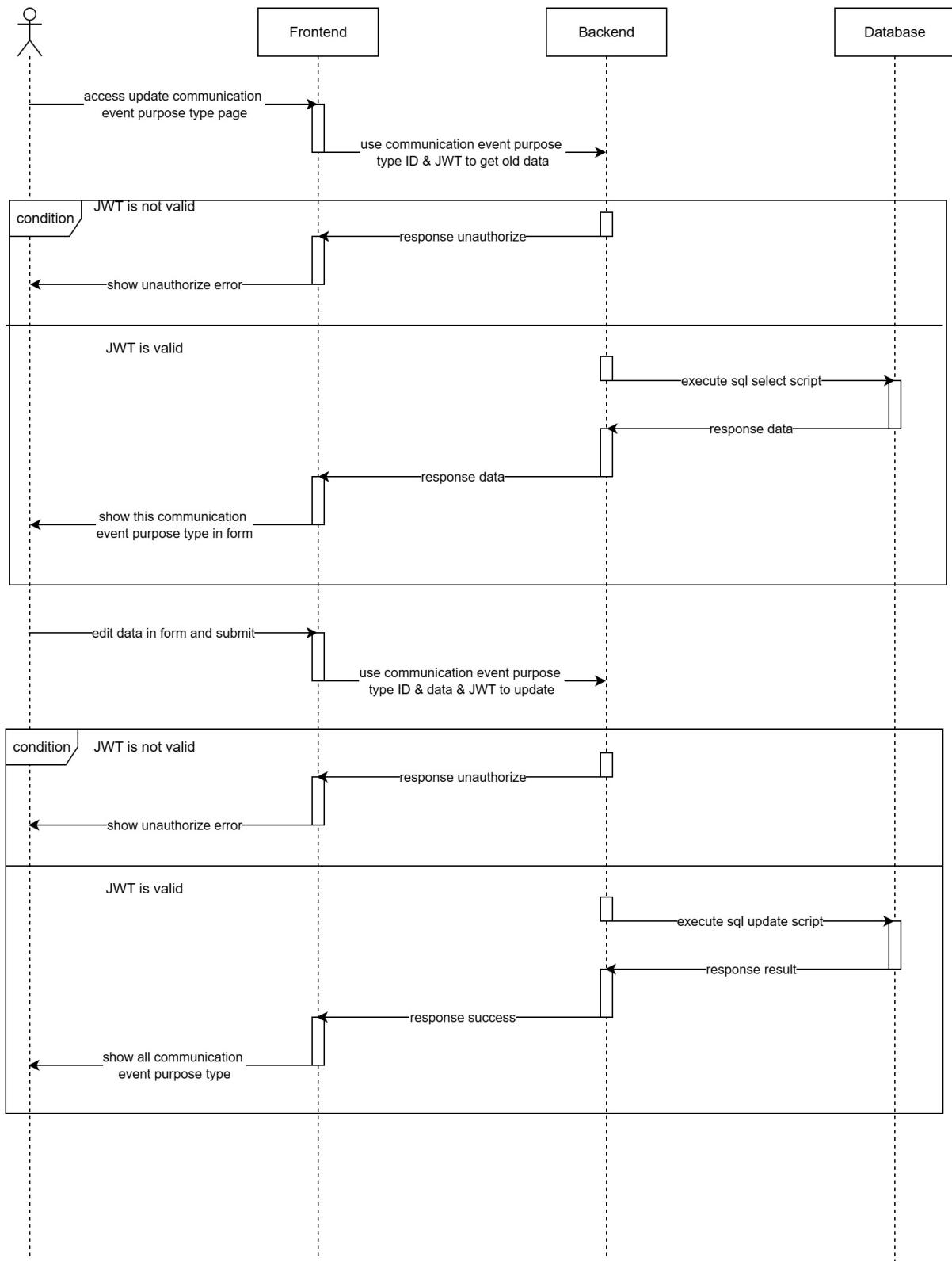
sequence_basetype_admin-4 delete gender type



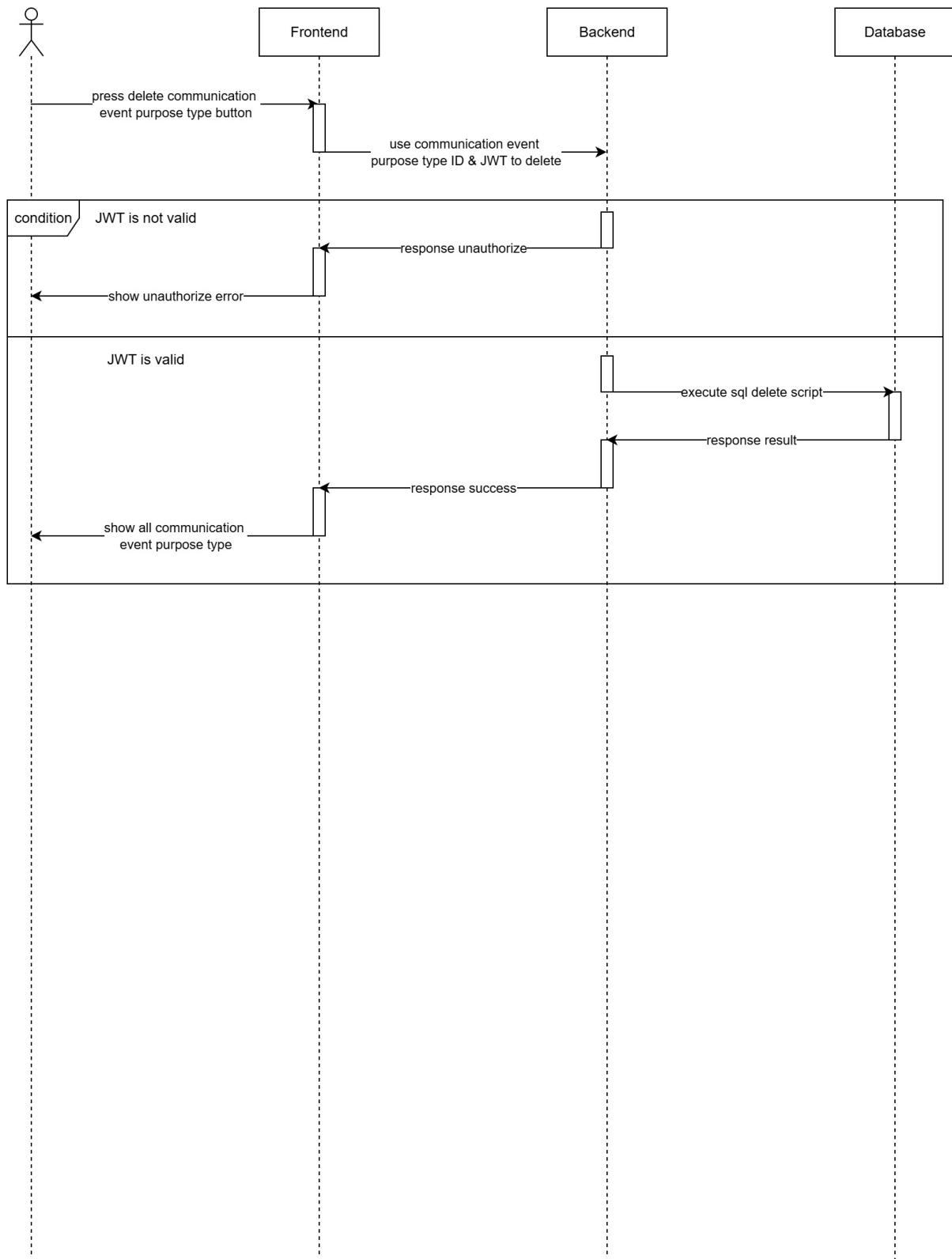
sequence_basetype_admin-5 create communication event purpose type



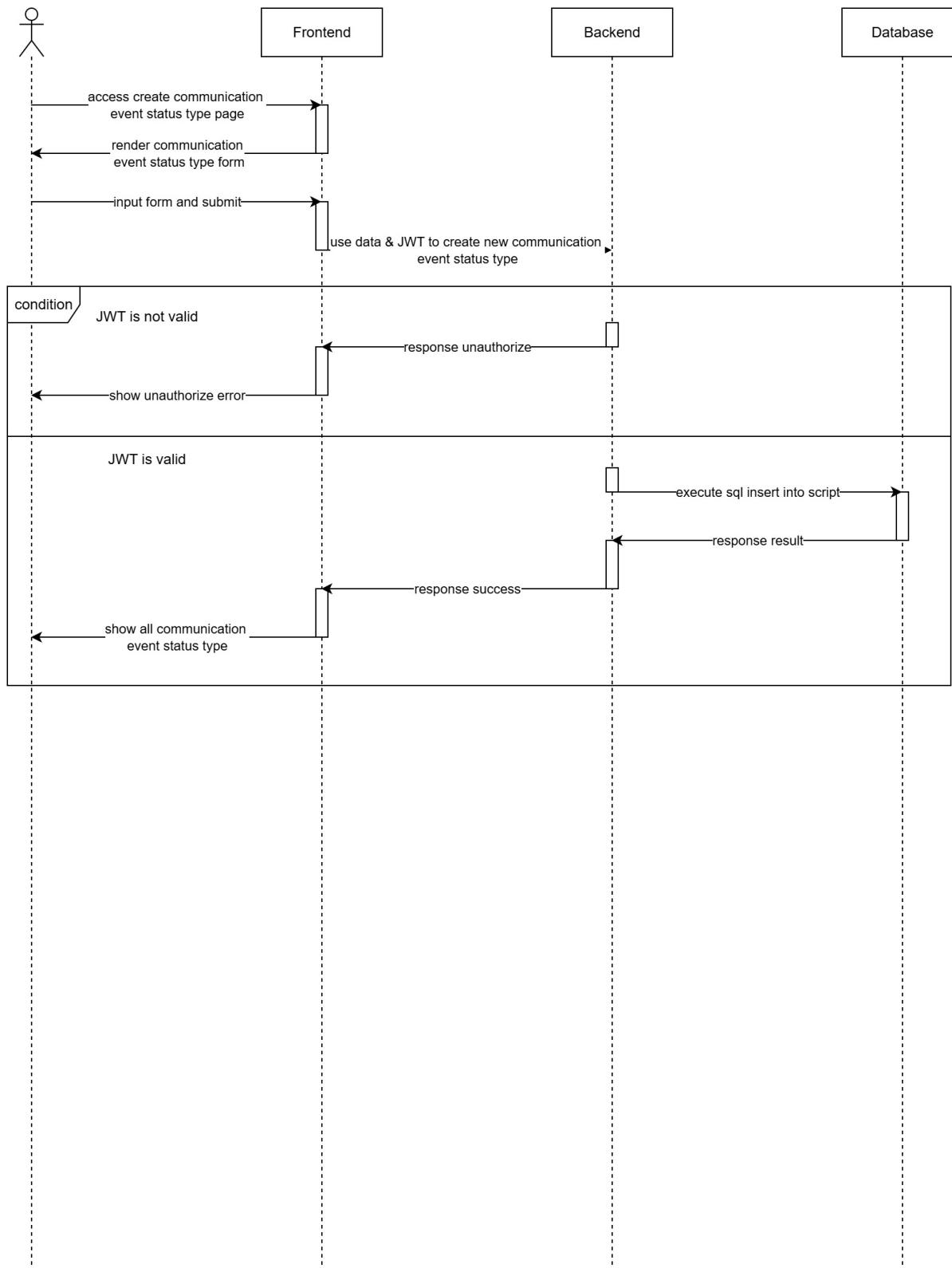
sequence_basetype_admin-6 read communication event type



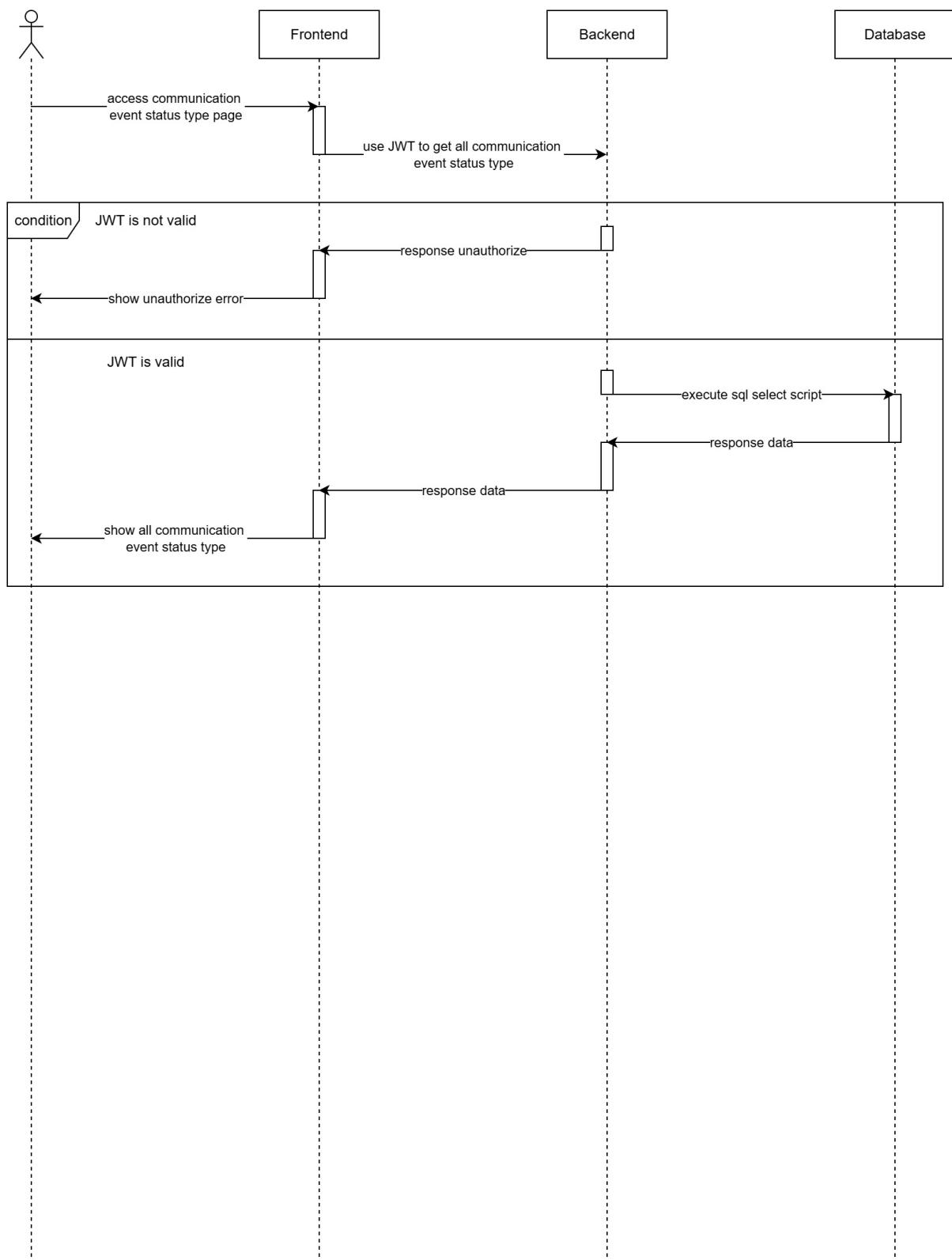
sequence_basetype_admin-7 update communication event type



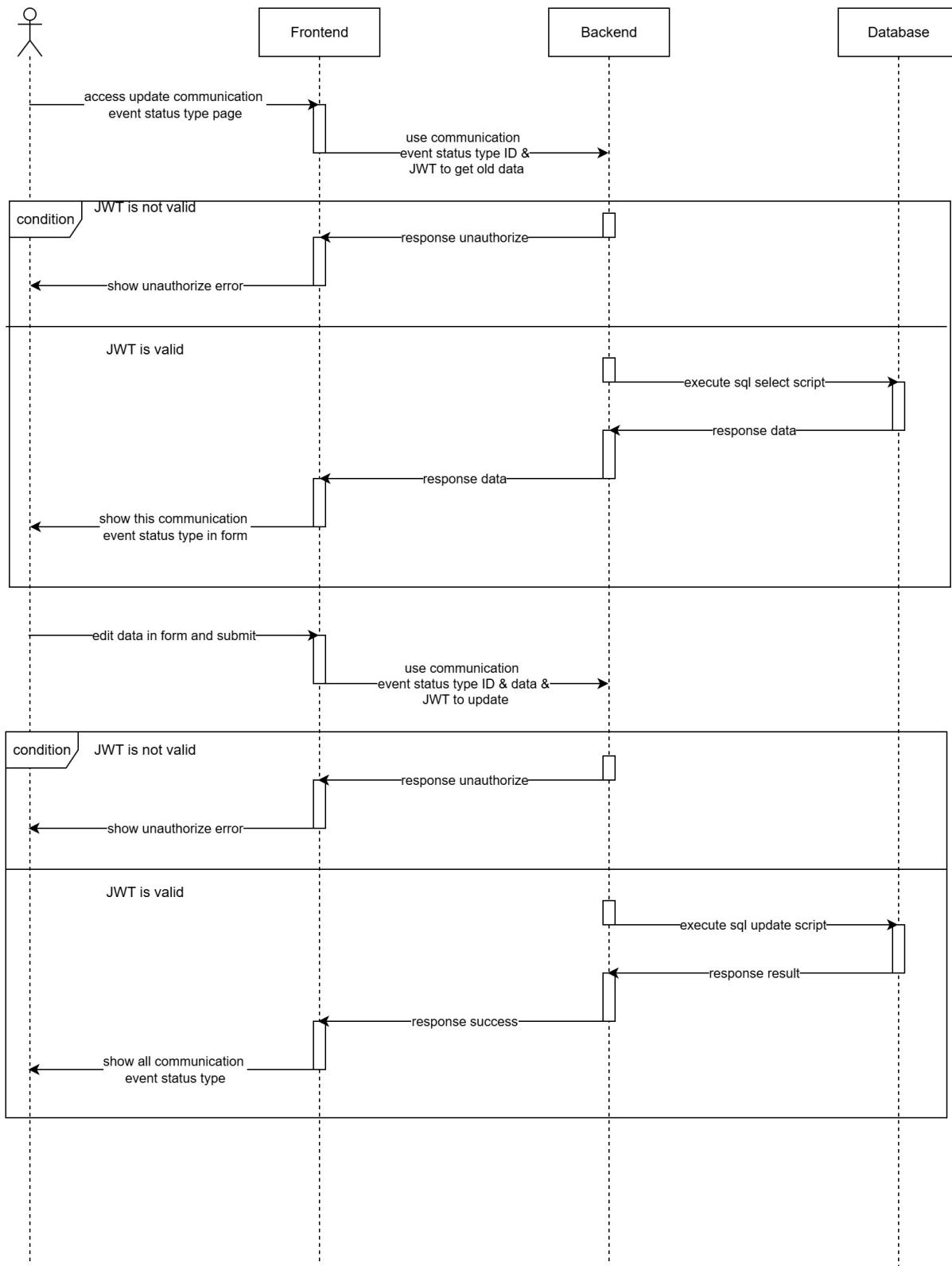
sequence_basetype_admin-8 delete communication event purpose type



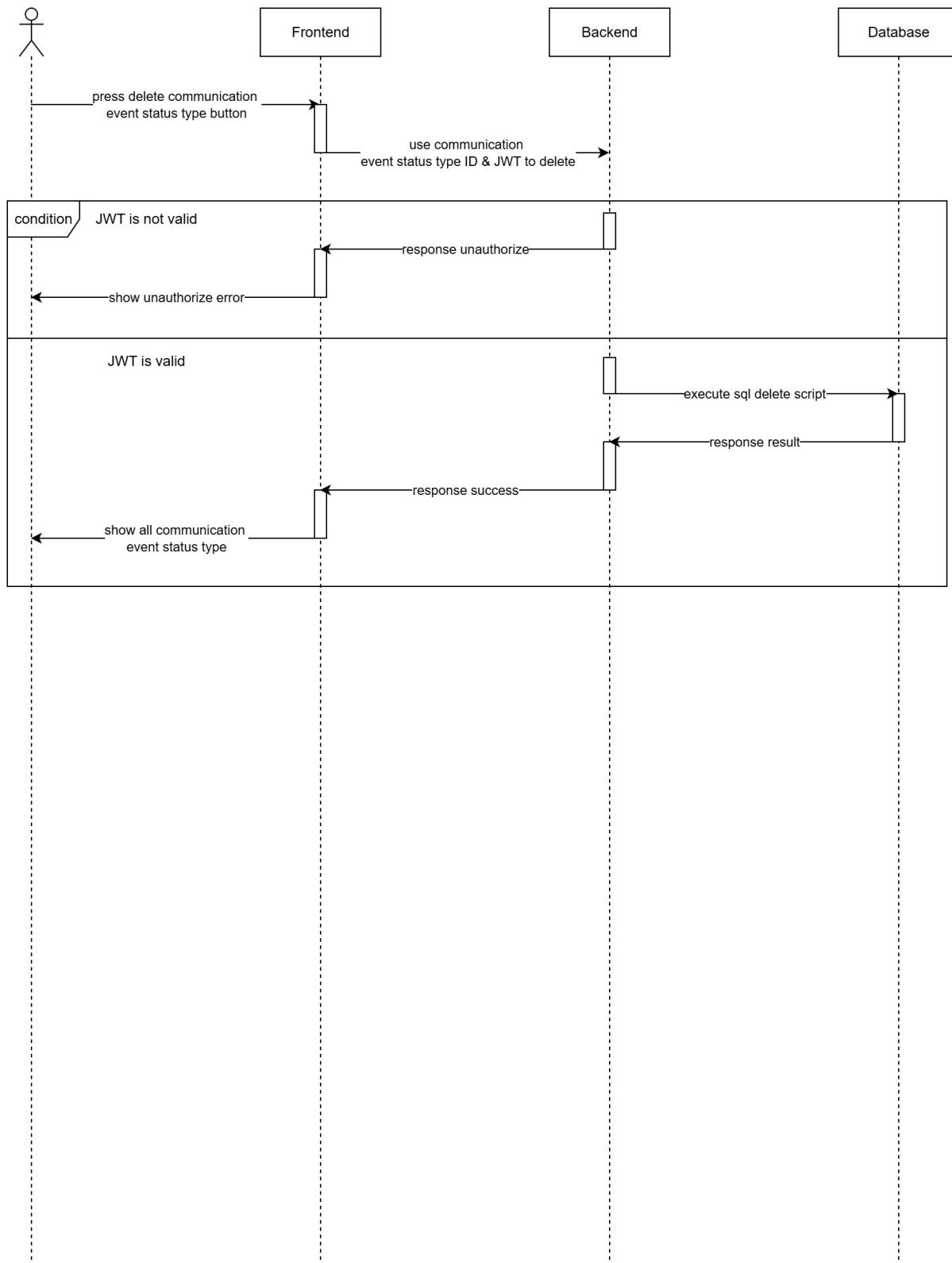
sequence_basetype_admin-9 create communication event status type



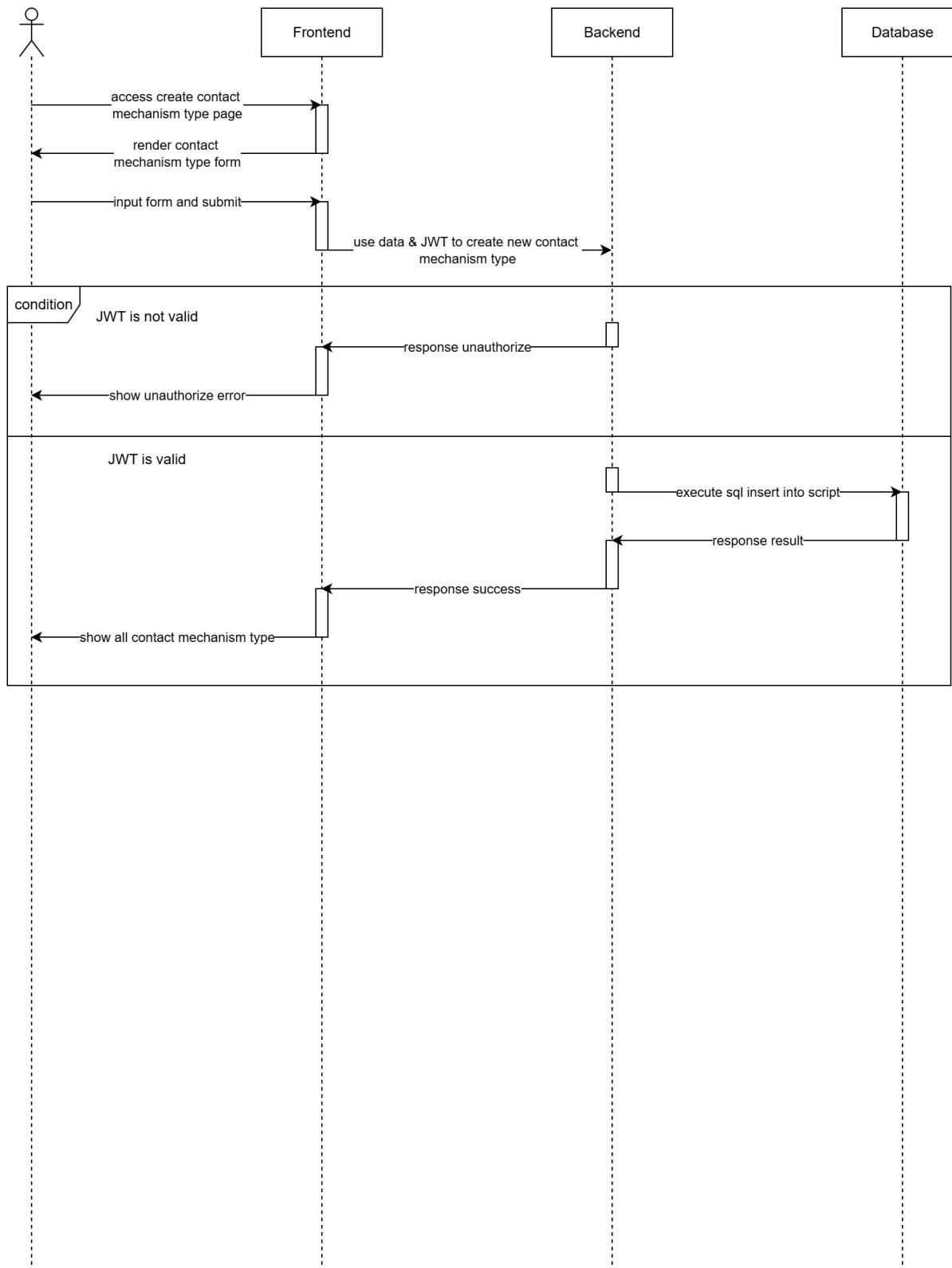
sequence_basetype_admin-10 read communication event status type



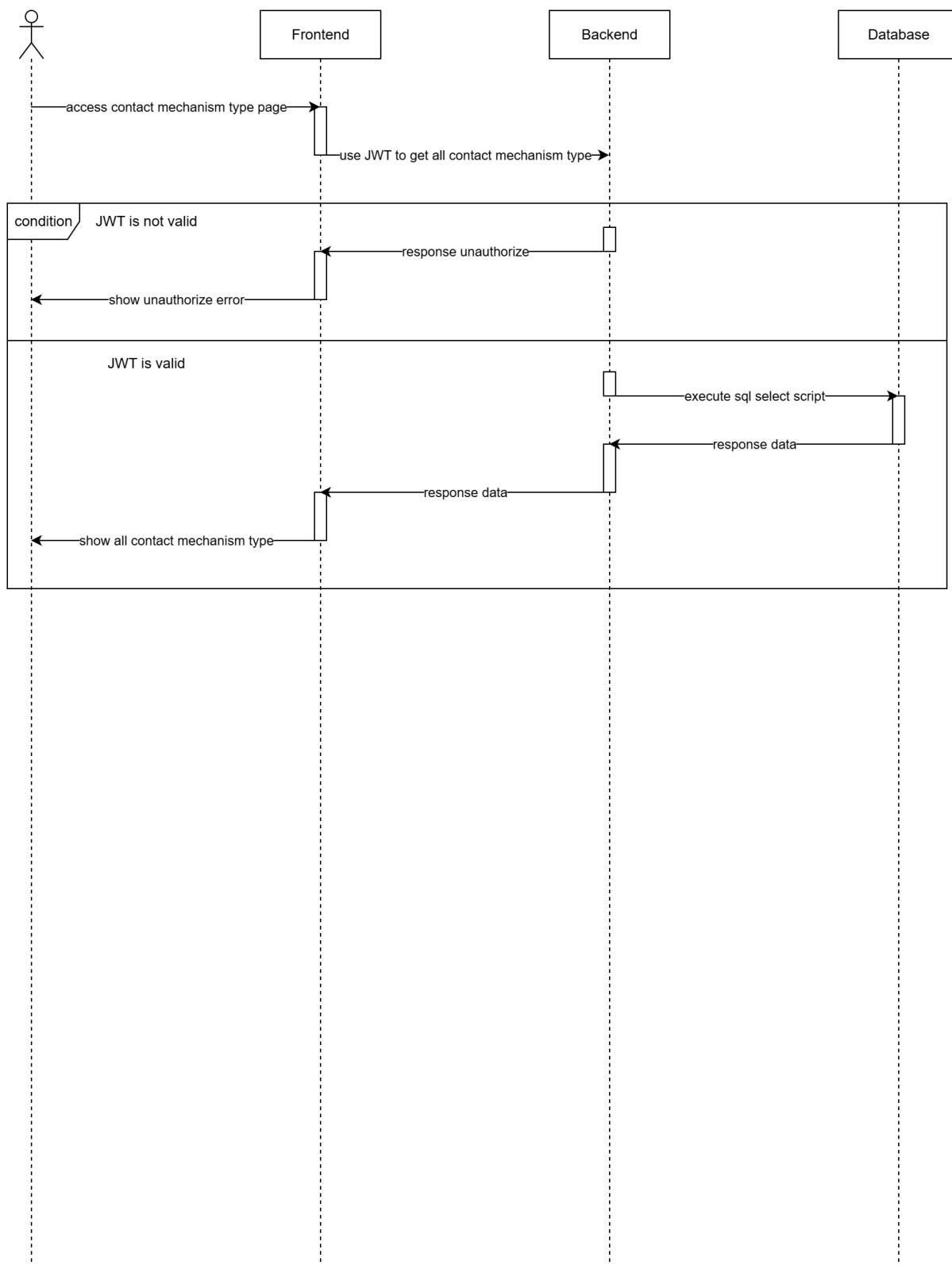
sequence_basetype_admin-11 update communication event status type



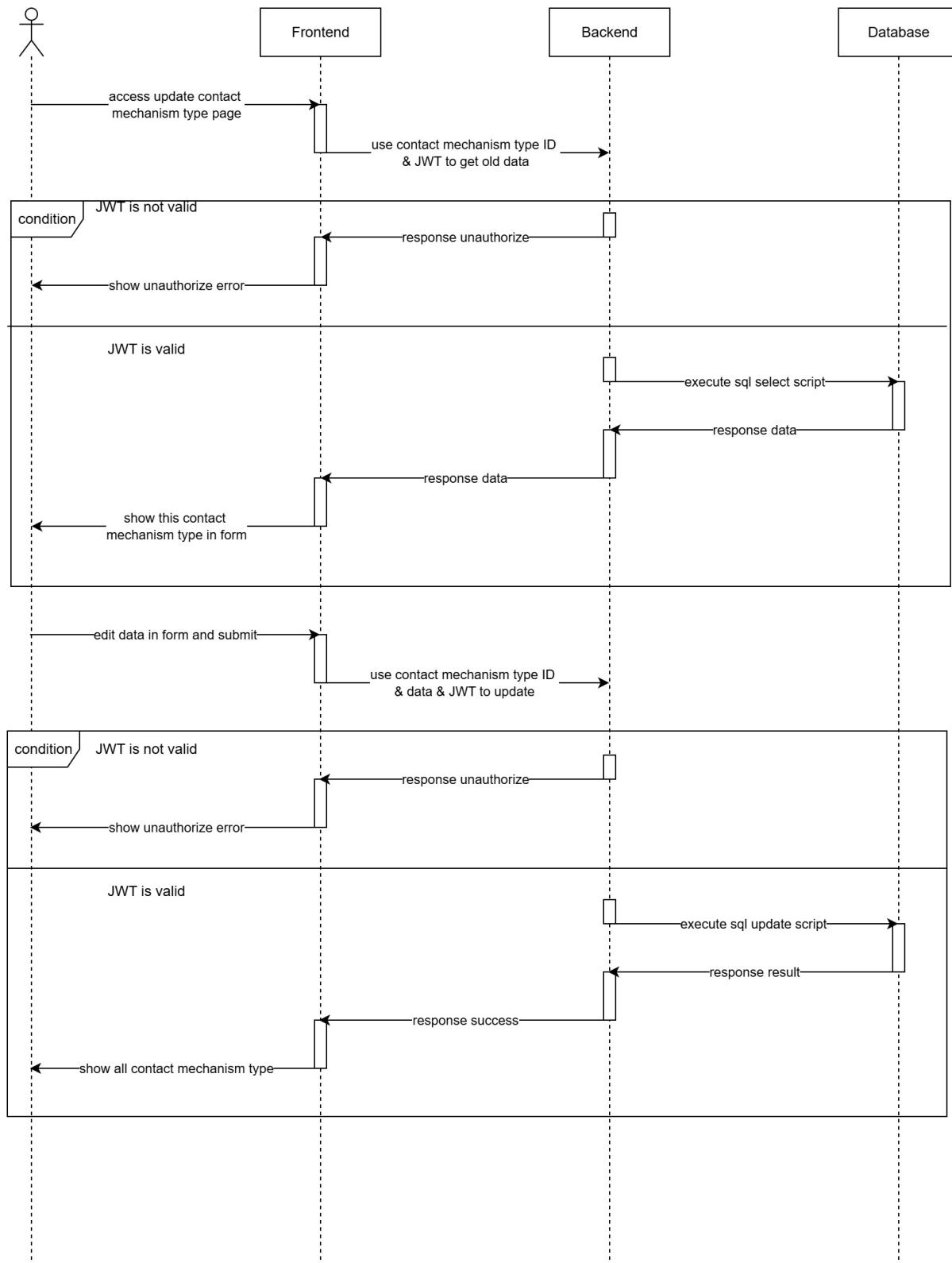
sequence_basetype_admin-12 delete communication event status type



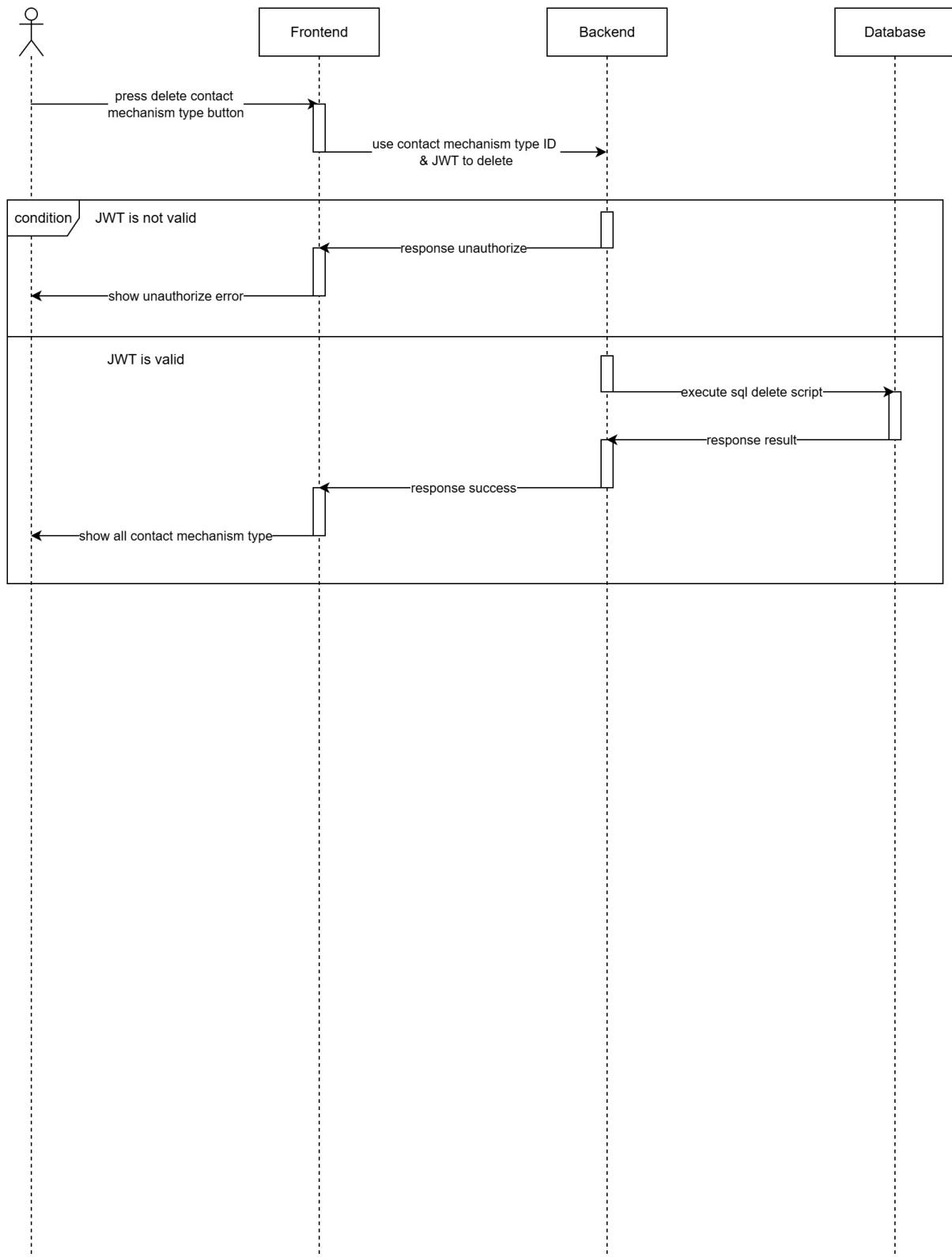
sequence_basetype_admin-13 create contact mechanism type



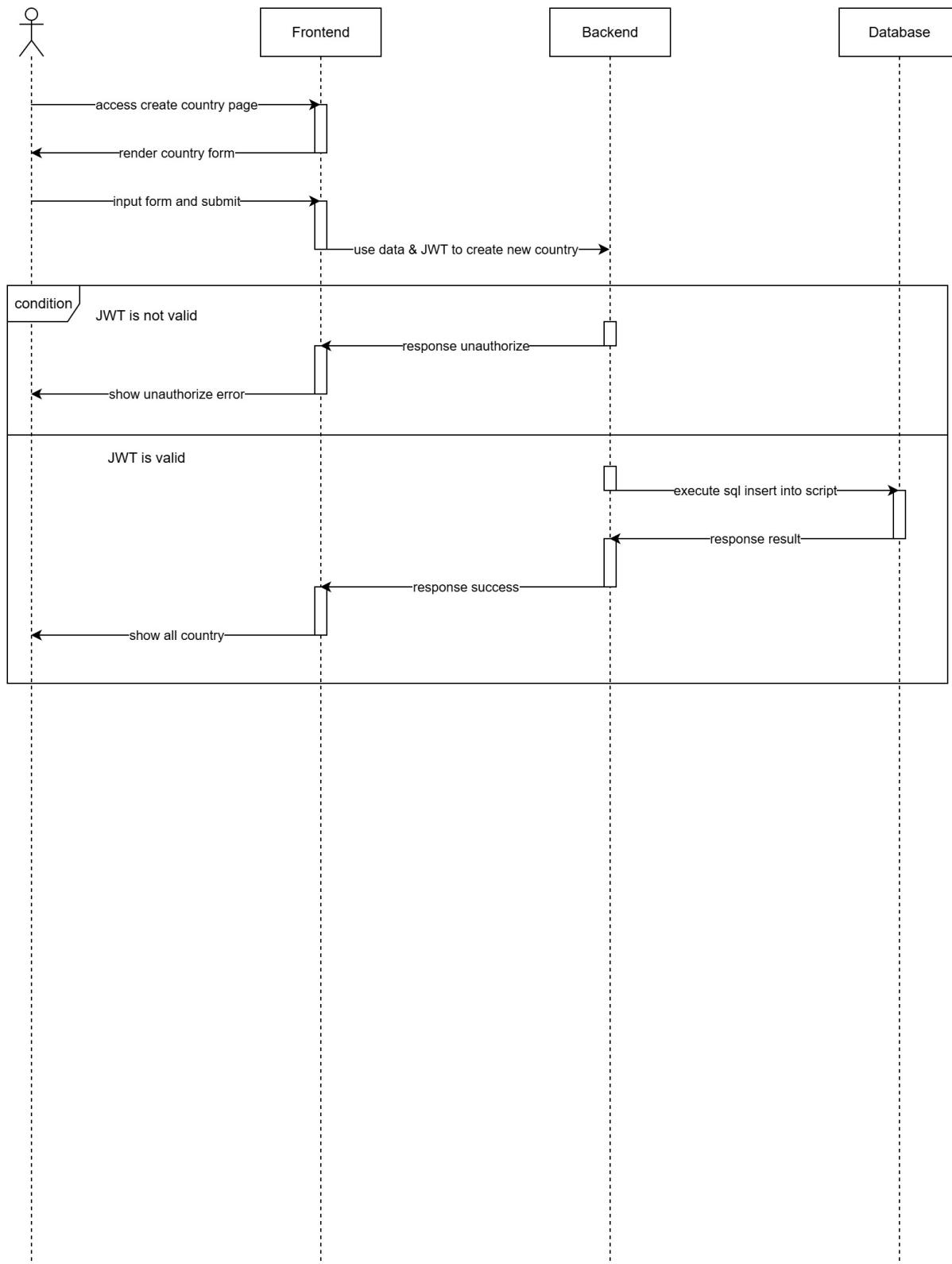
sequence_basetype_admin-14 read contact mechanism type



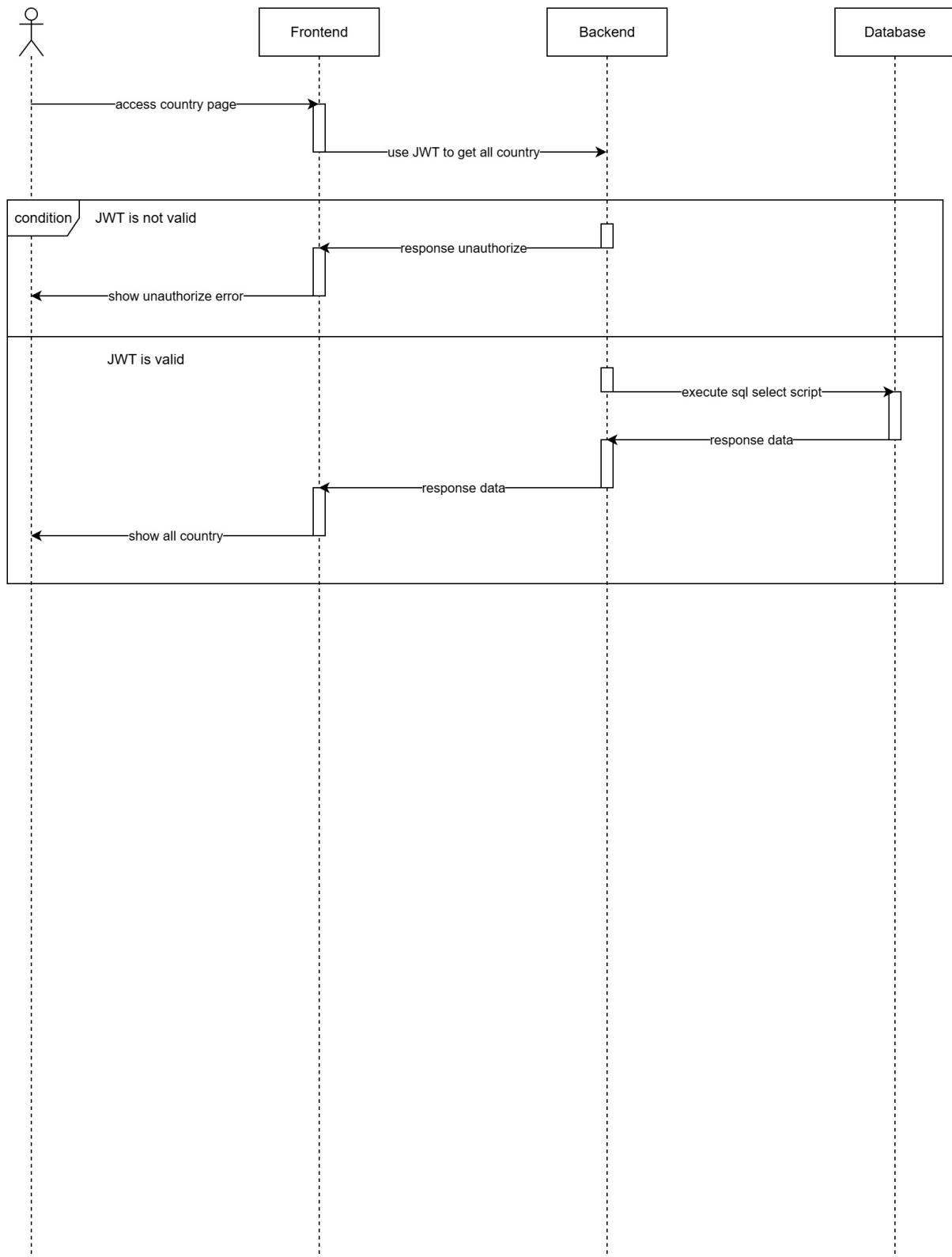
sequence_basetype_admin-15 update contact mechanism type



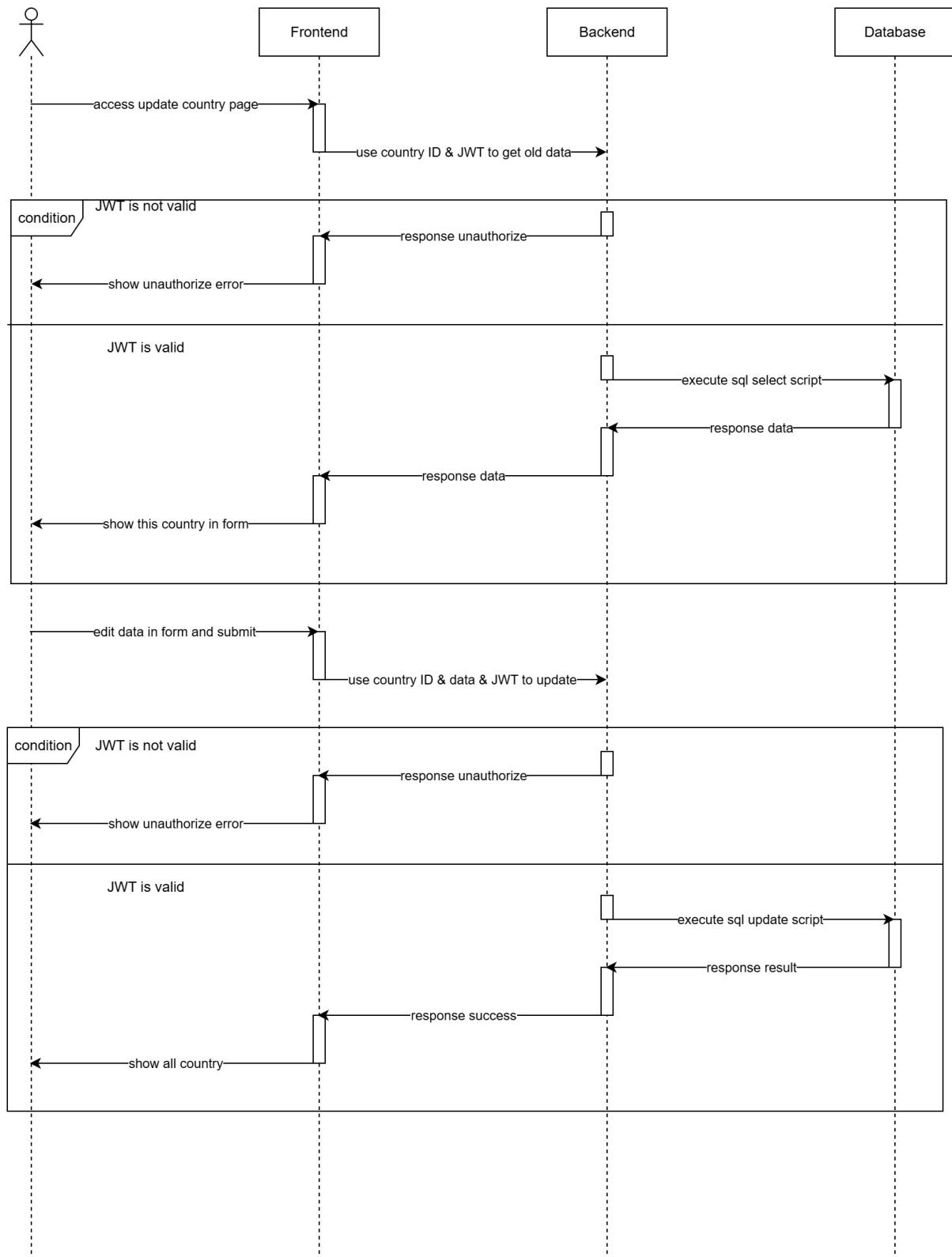
sequence_basetype_admin-16 delete contact mechanism type



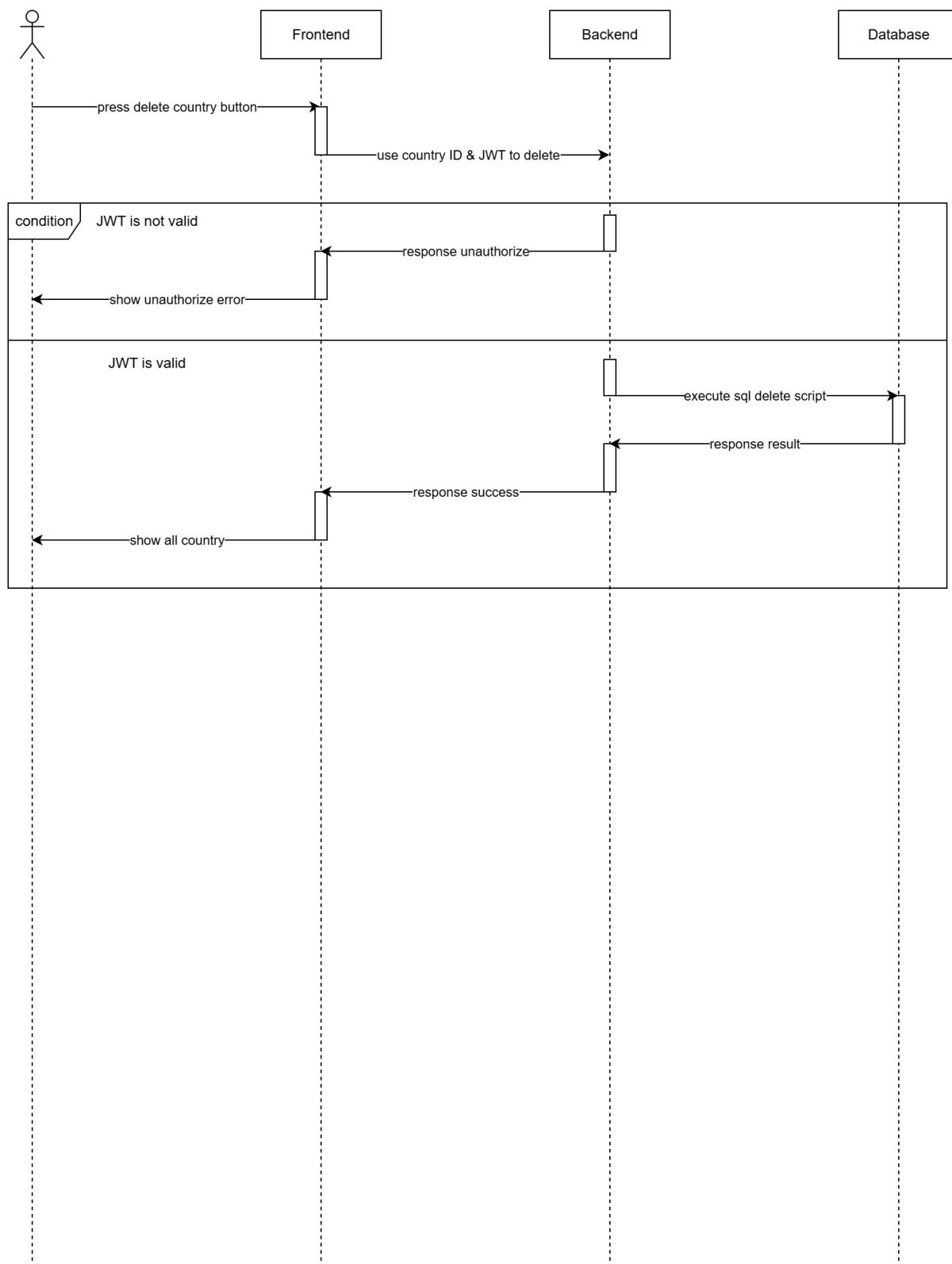
sequence_basetype_admin-17 create country



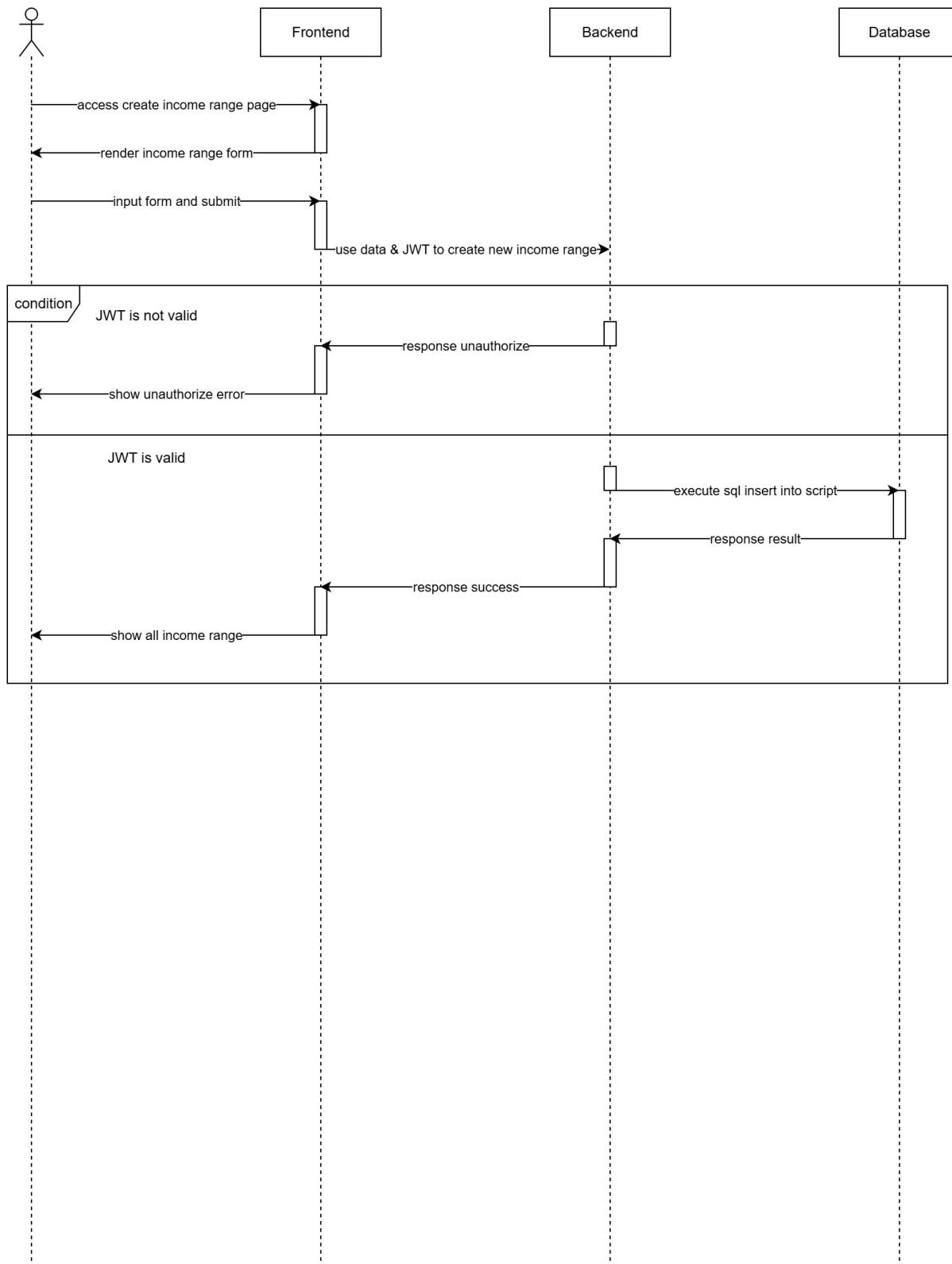
sequence_basetype_admin-18 read country



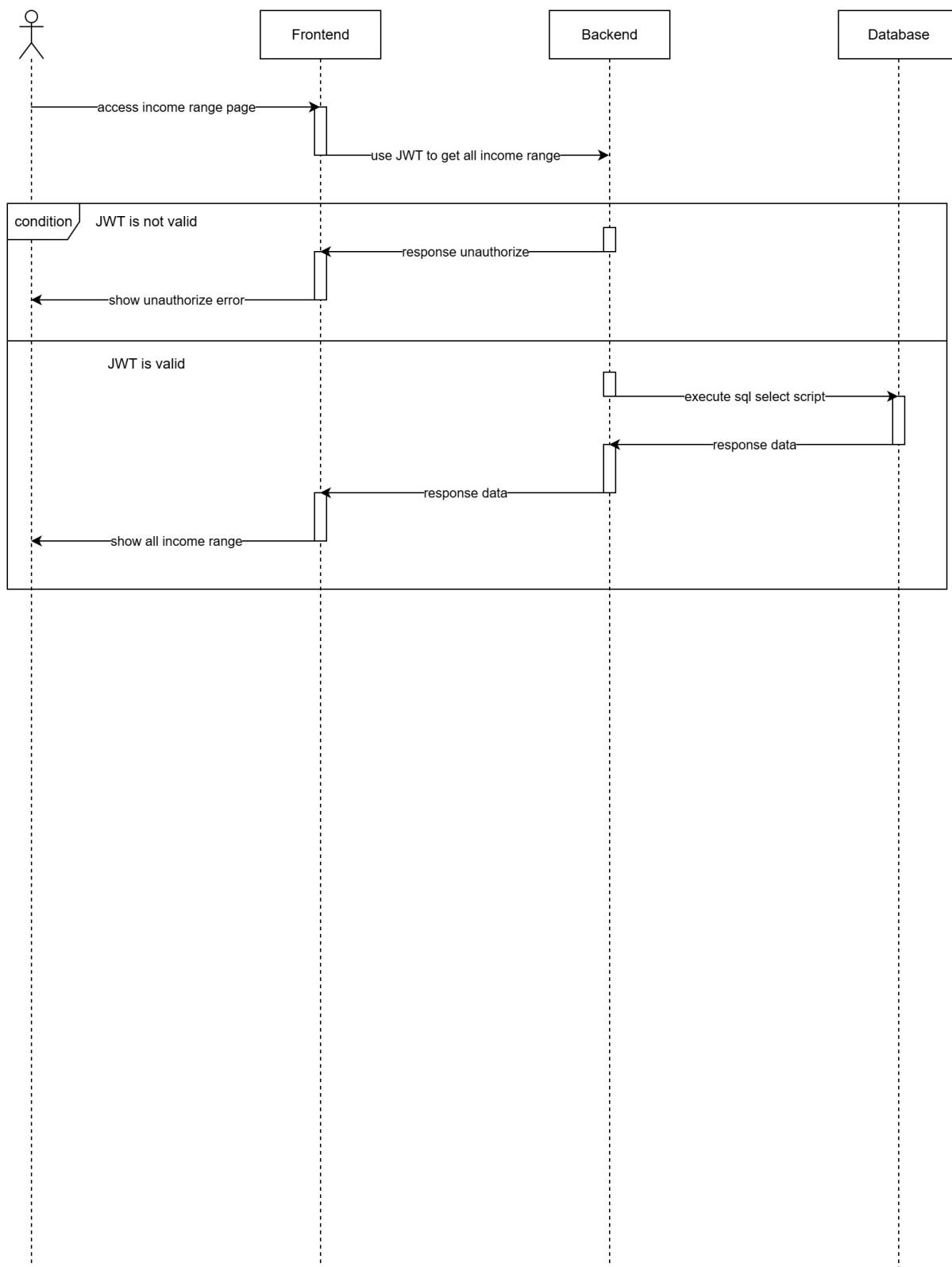
sequence_basetype_admin-19 update country



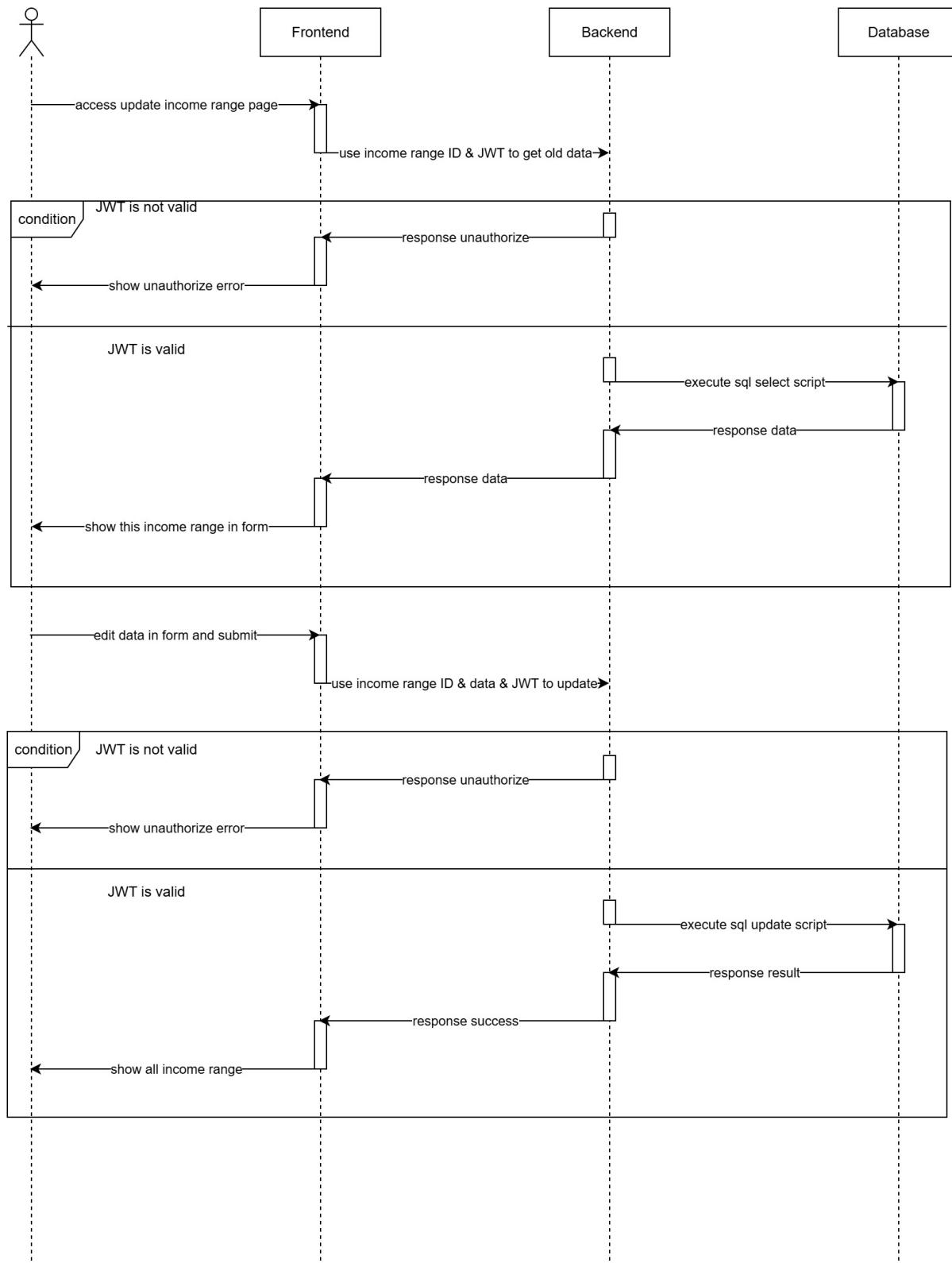
sequence_basetype_admin-20 delete country



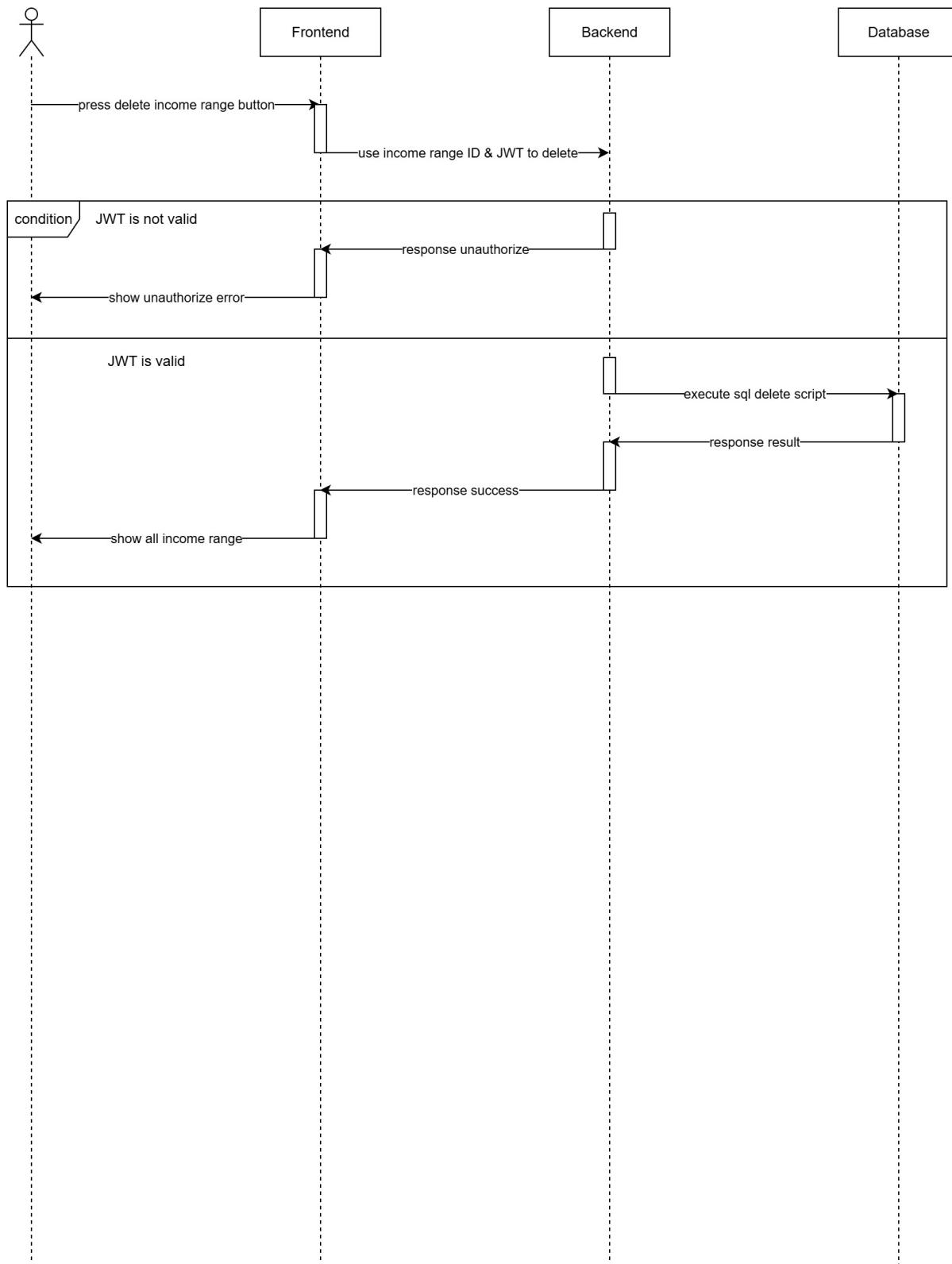
sequence_basetype_admin-21 create income range



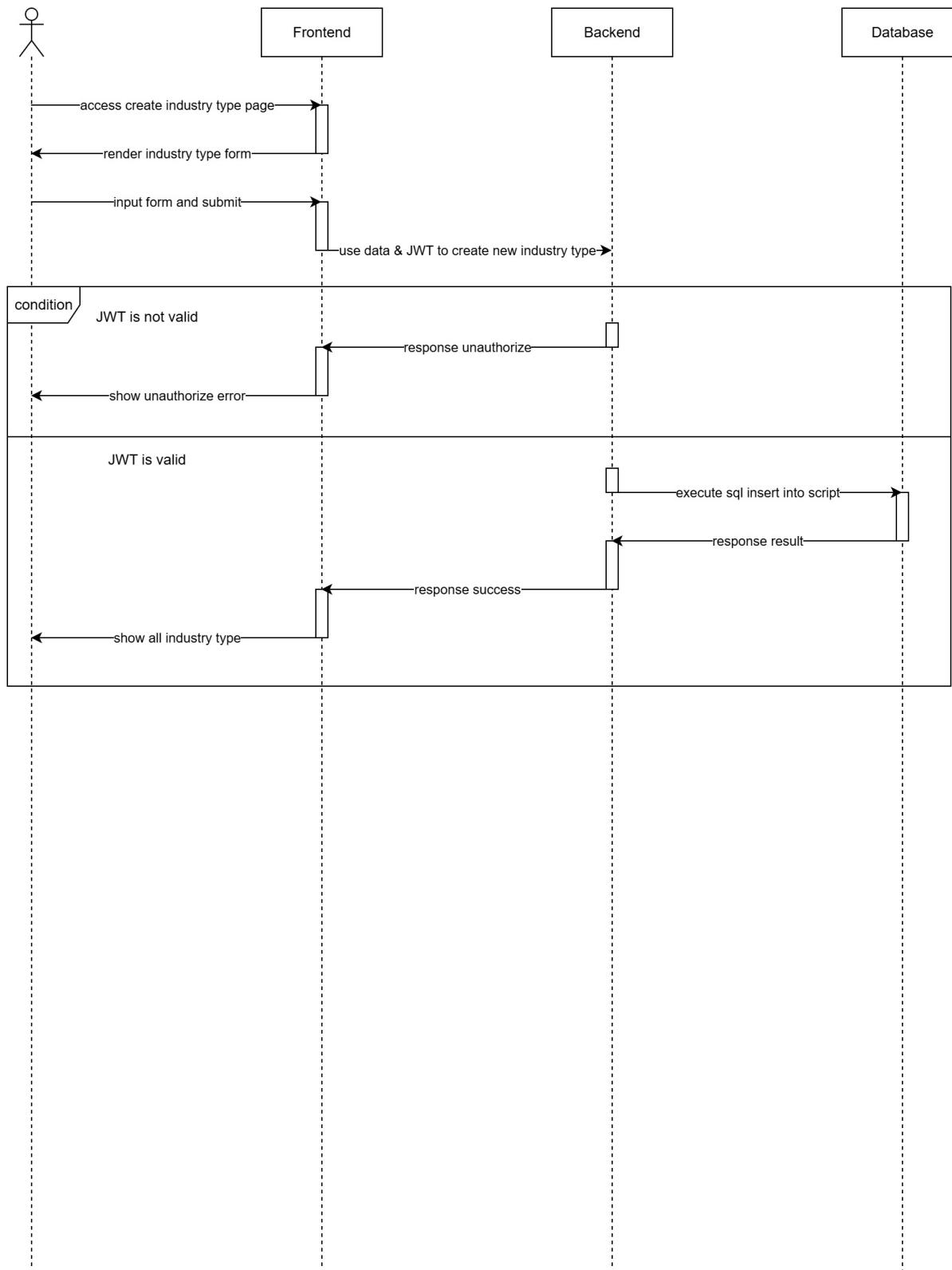
sequence_basetype_admin-22 read income range



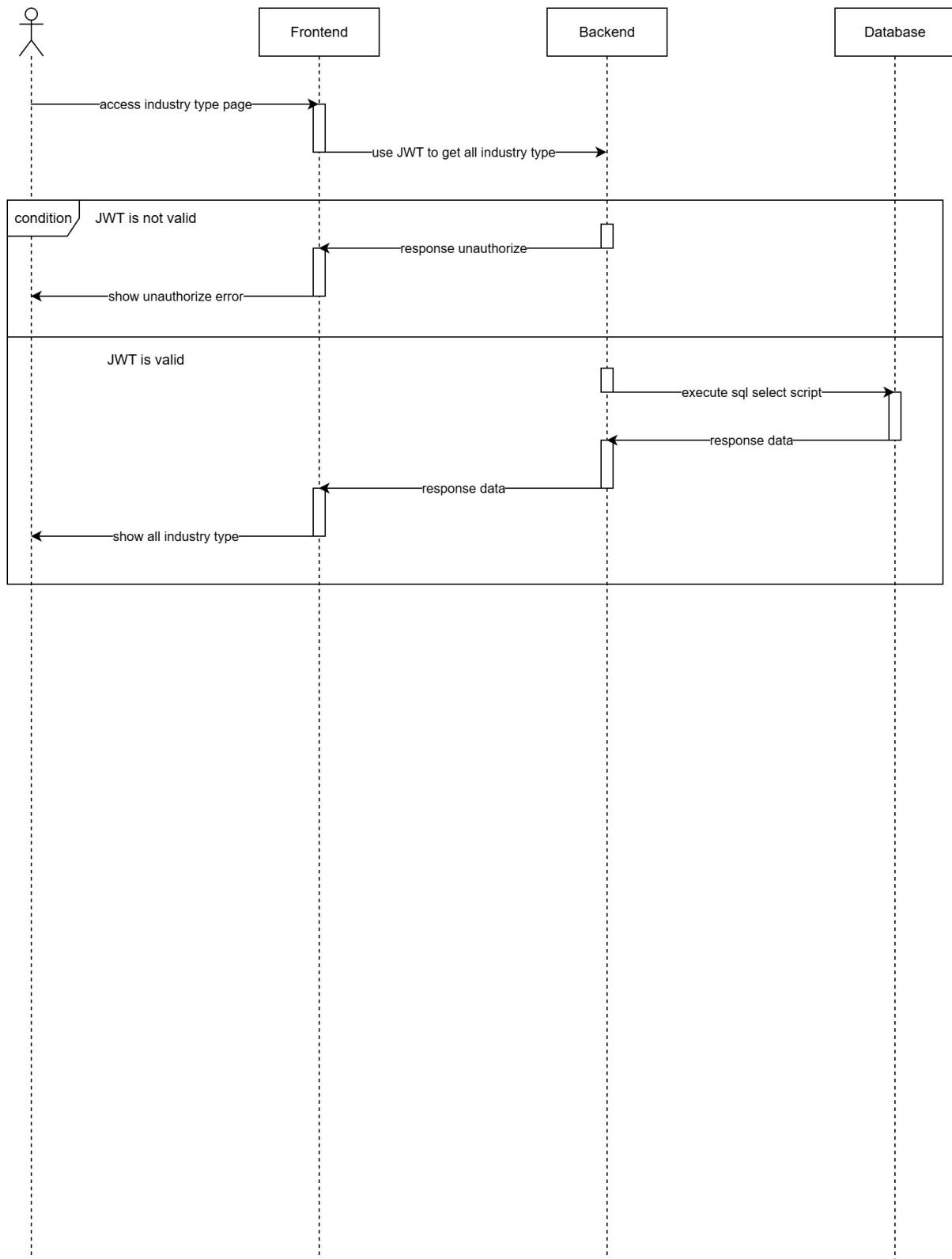
sequence_basetype_admin-23 update income range



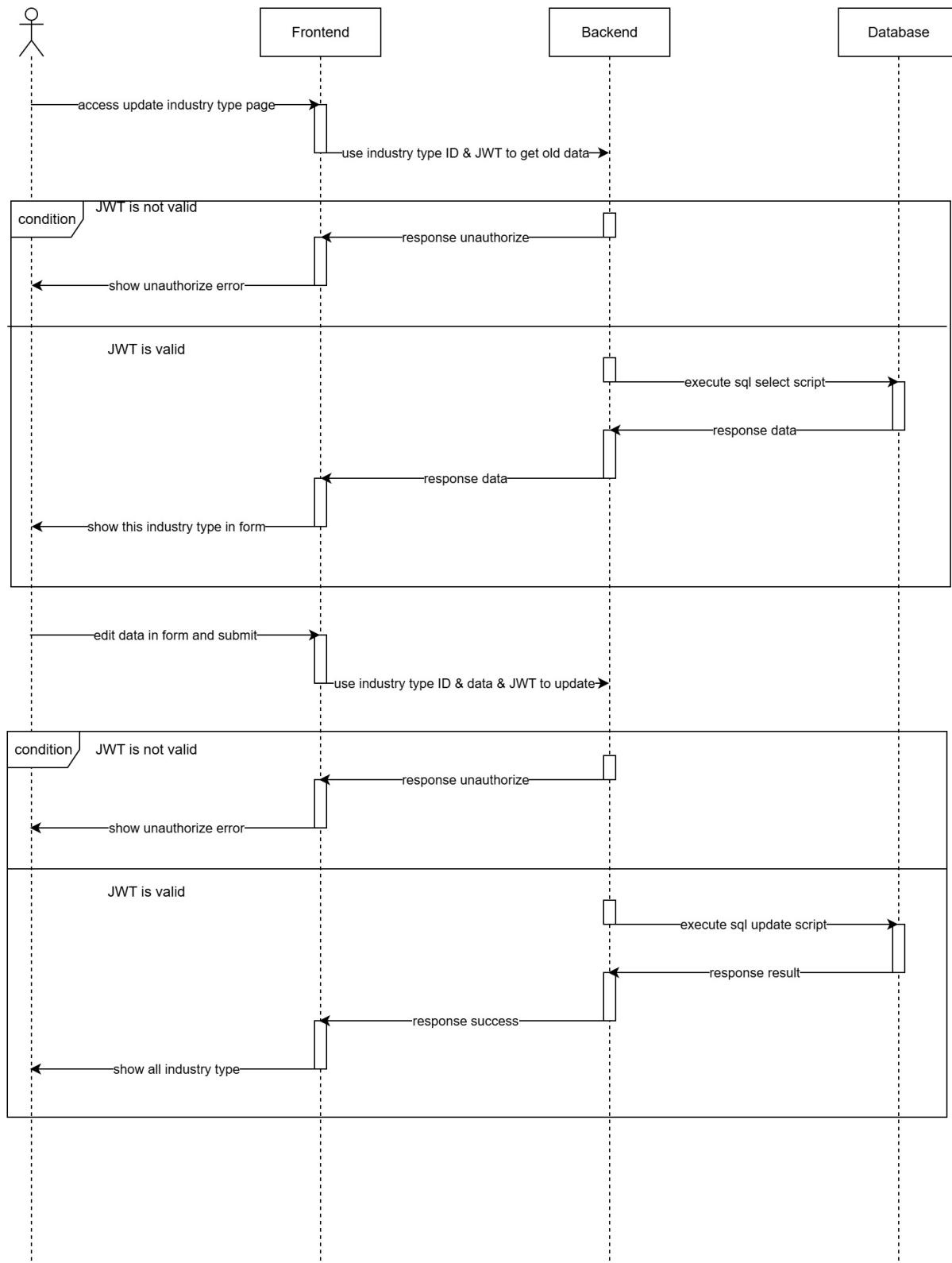
sequence_basetype_admin-24 delete income range



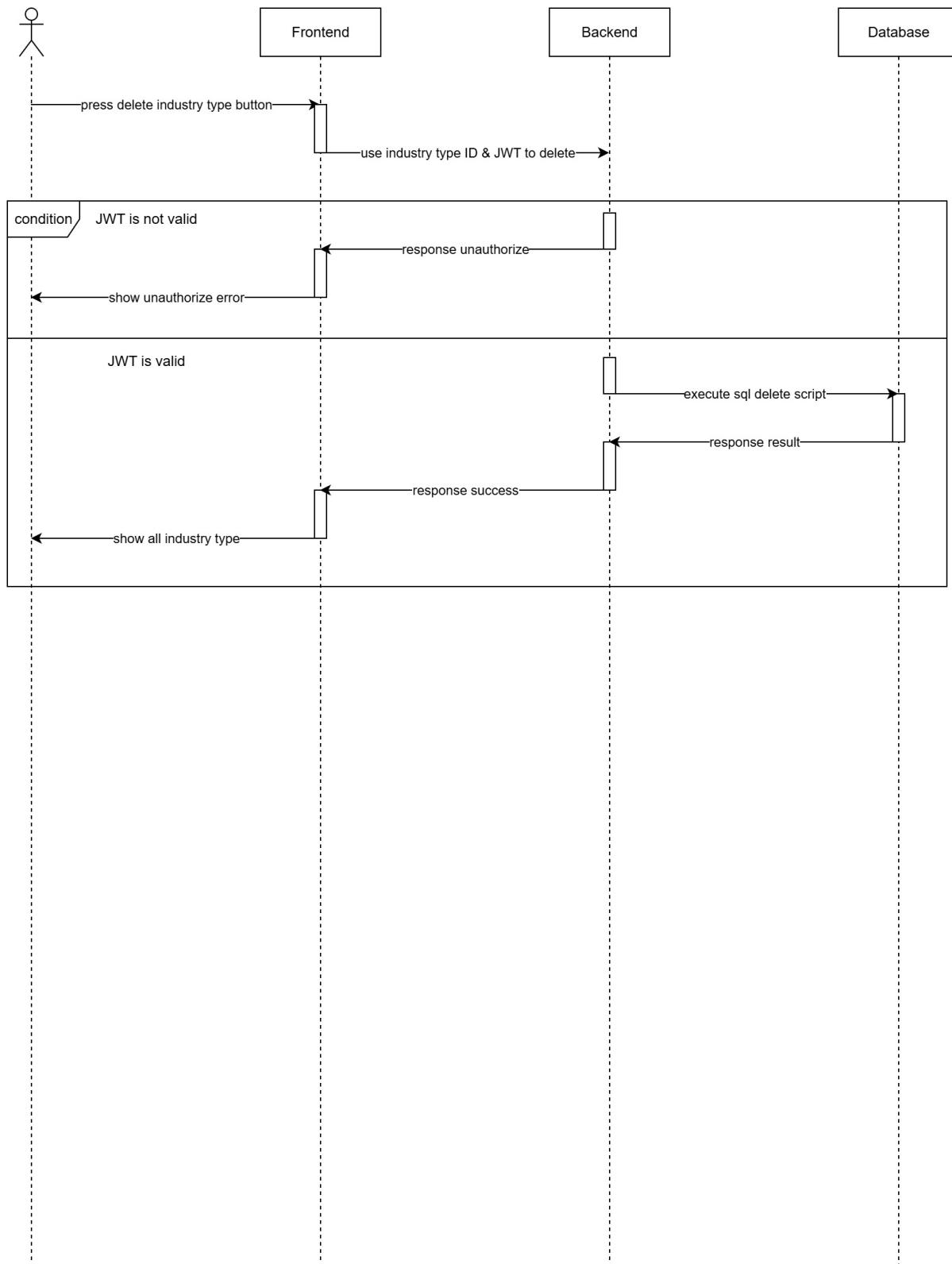
sequence_basetype_admin-25 create industry type



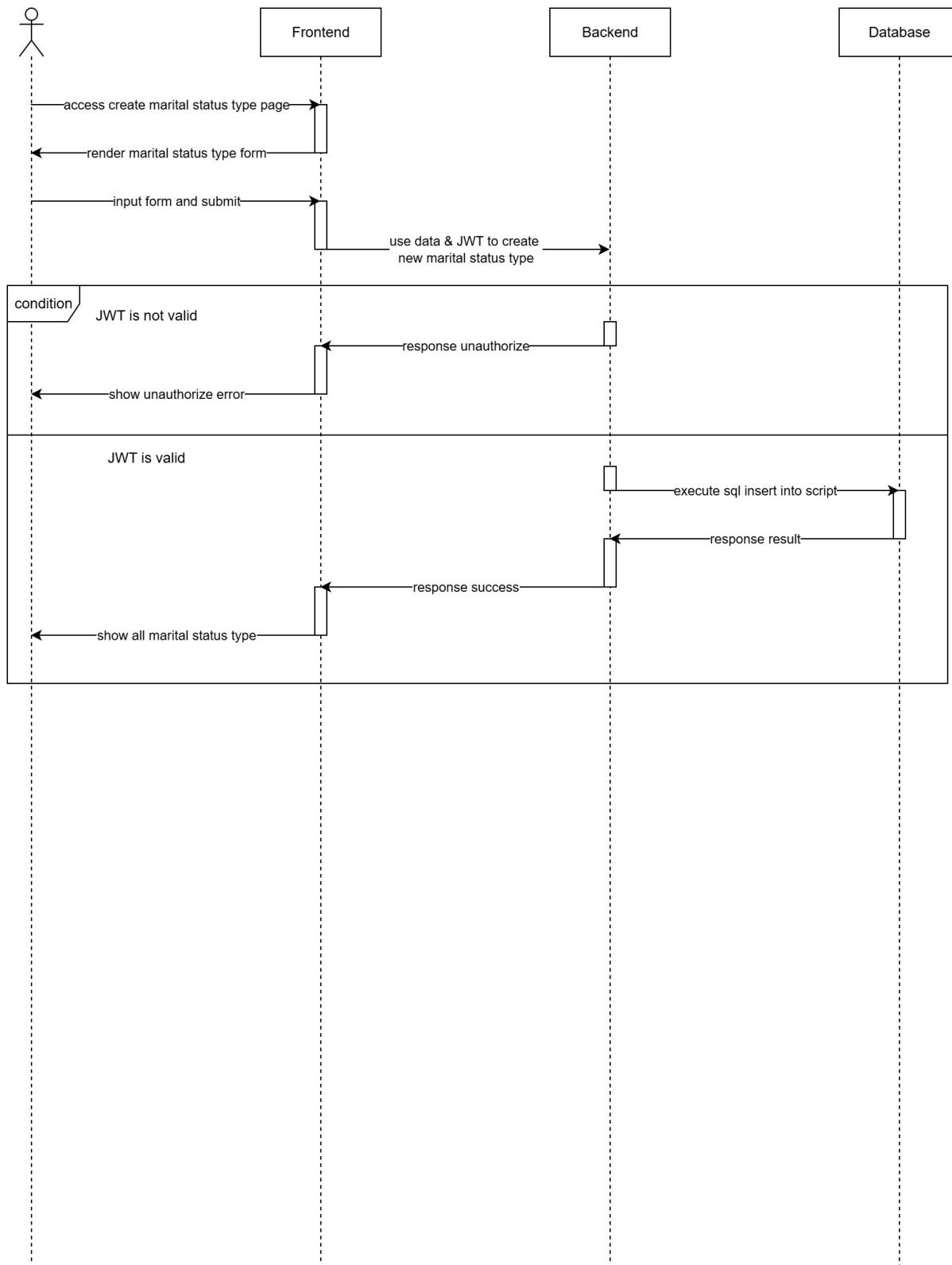
sequence_basetype_admin-26 read industry type



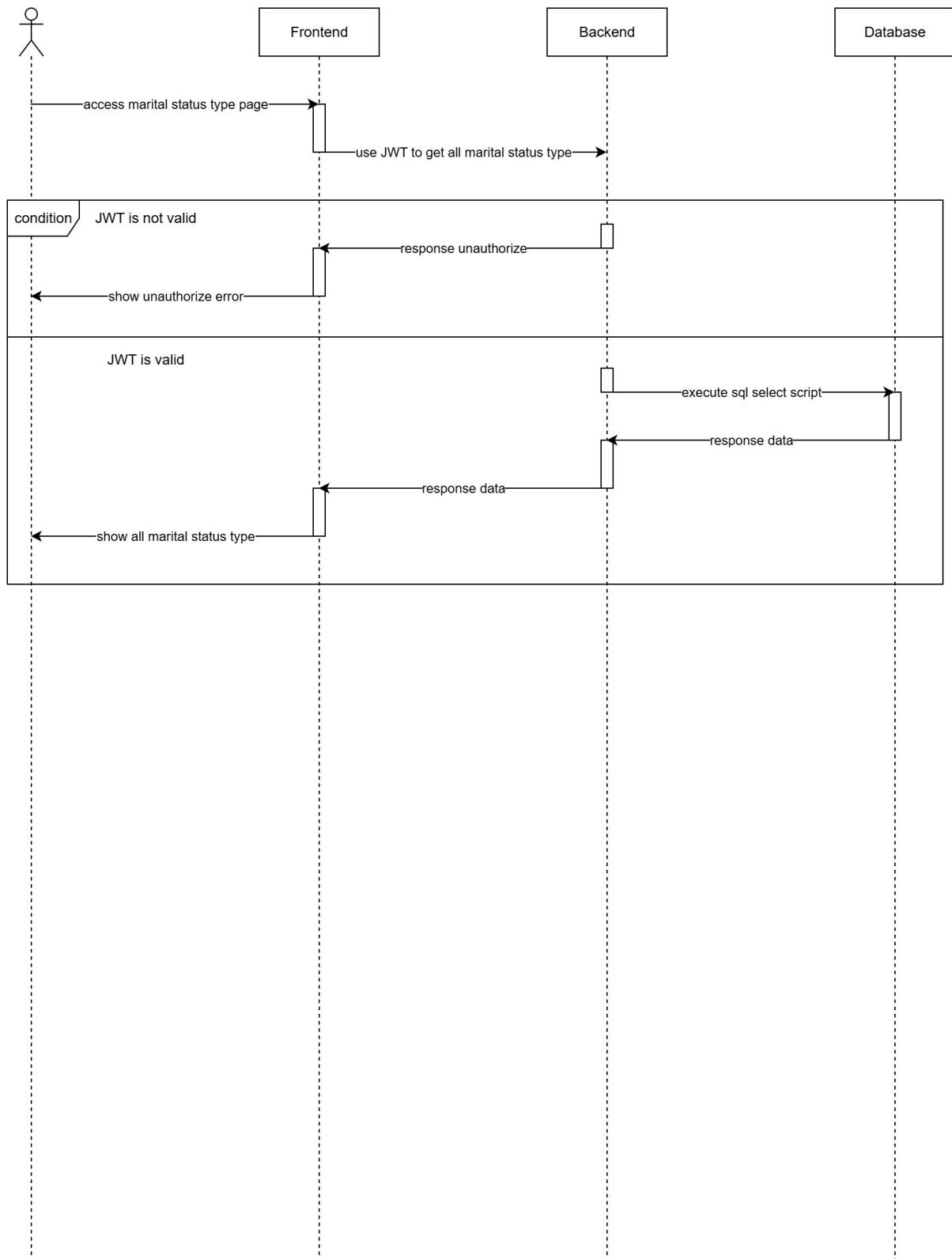
sequence_basetype_admin-27 update industry type



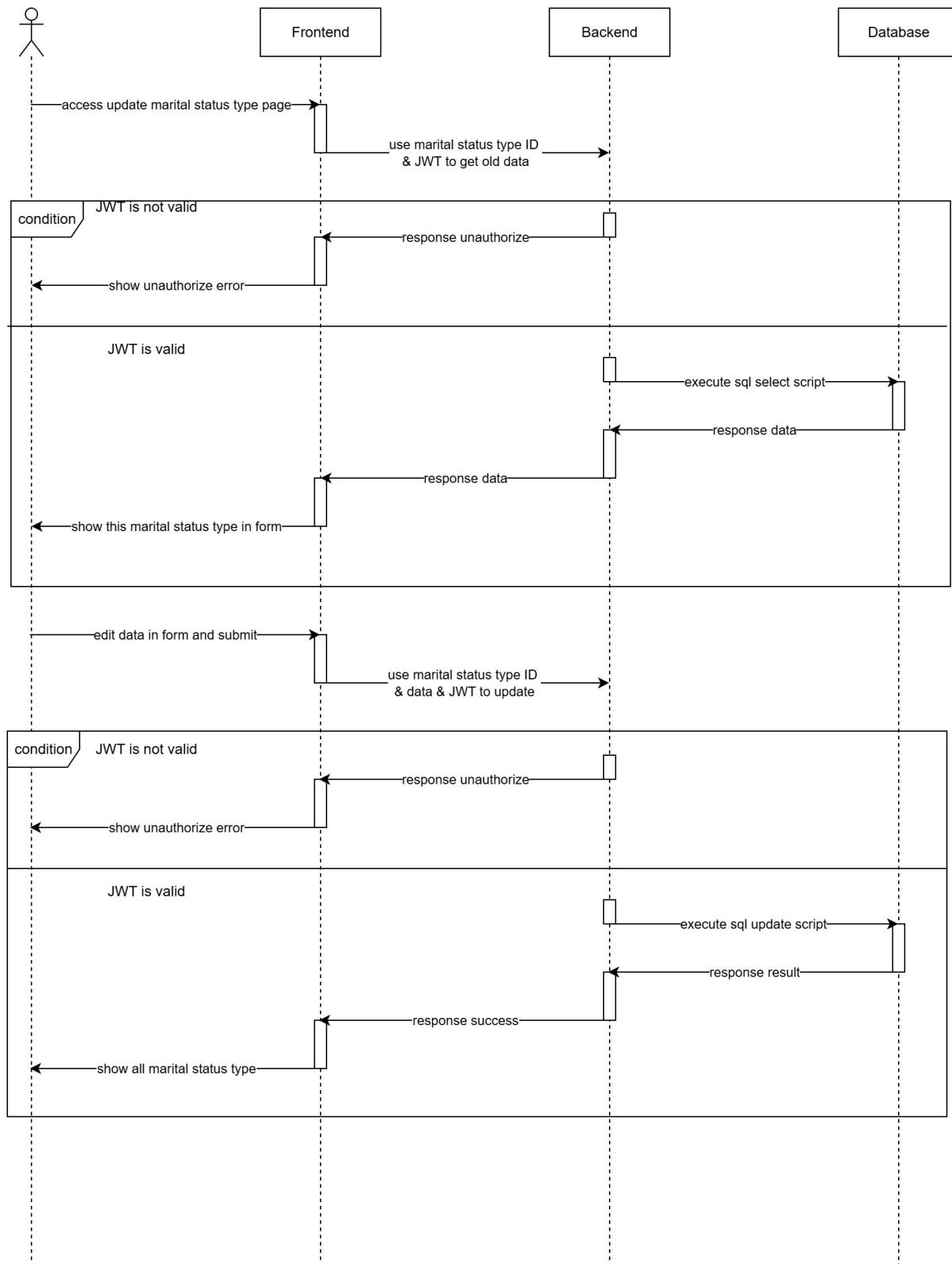
sequence_basetype_admin-28 delete industry type



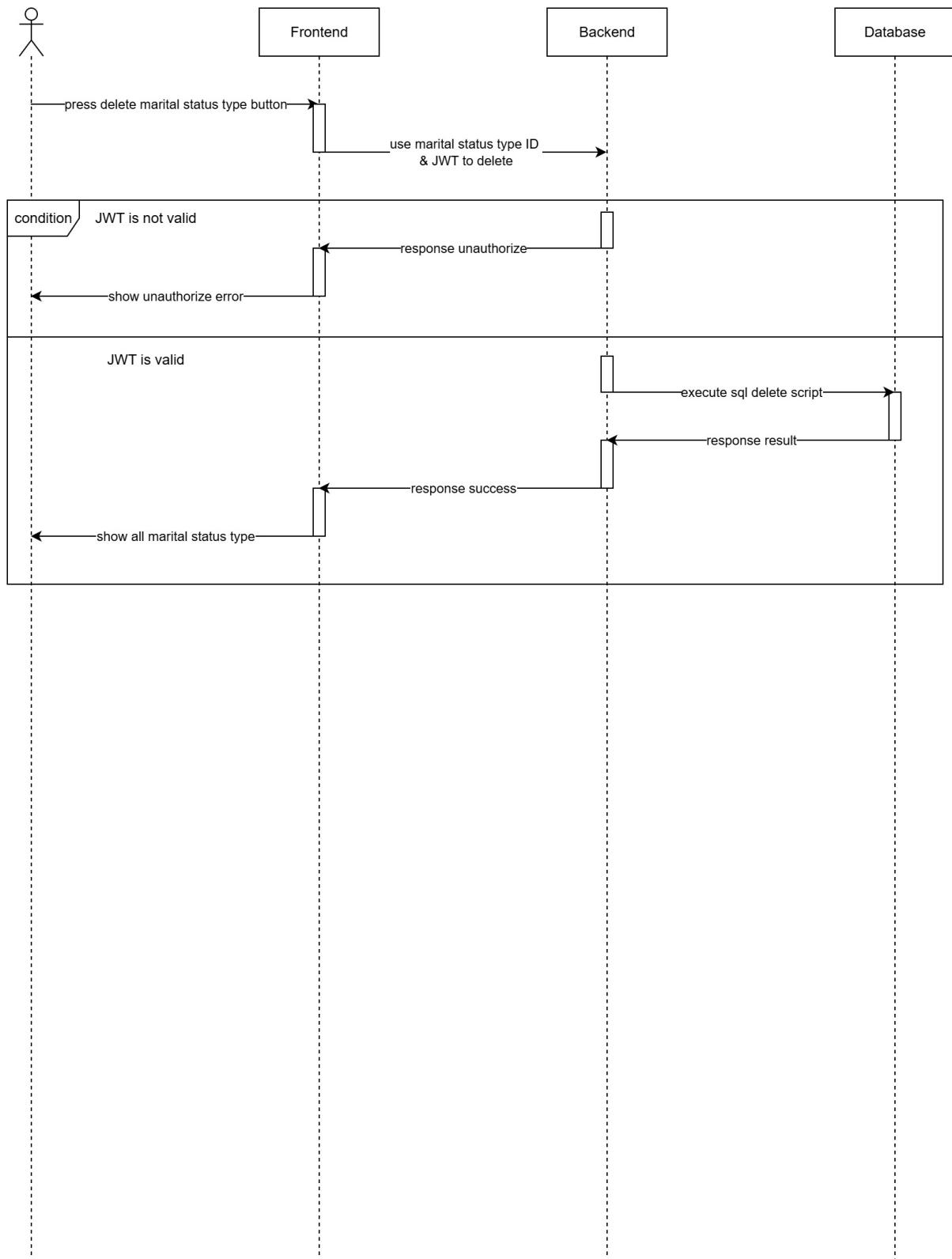
sequence_basetype_admin-29 create marital status type



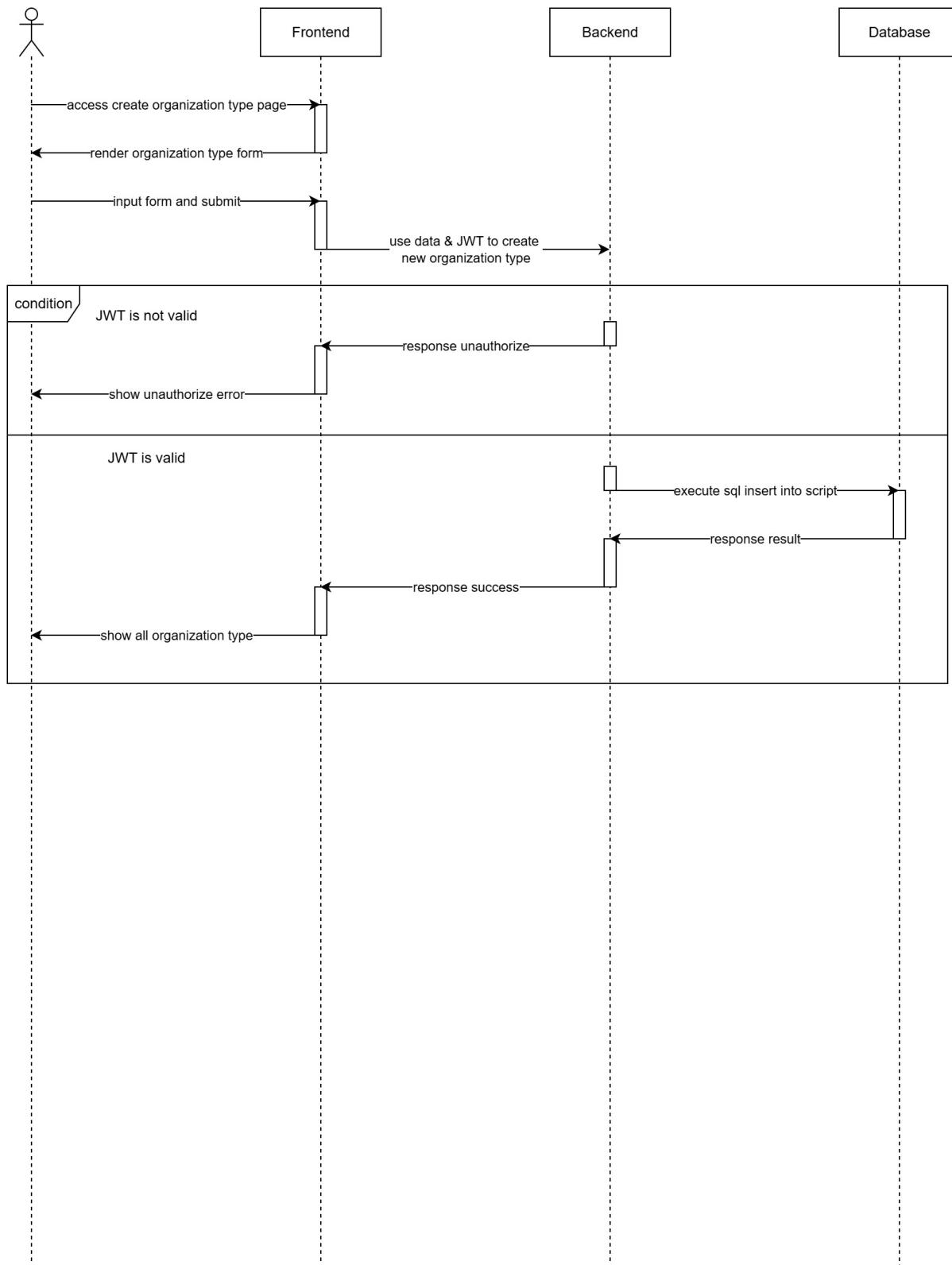
sequence_basetype_admin-30 read marital status type



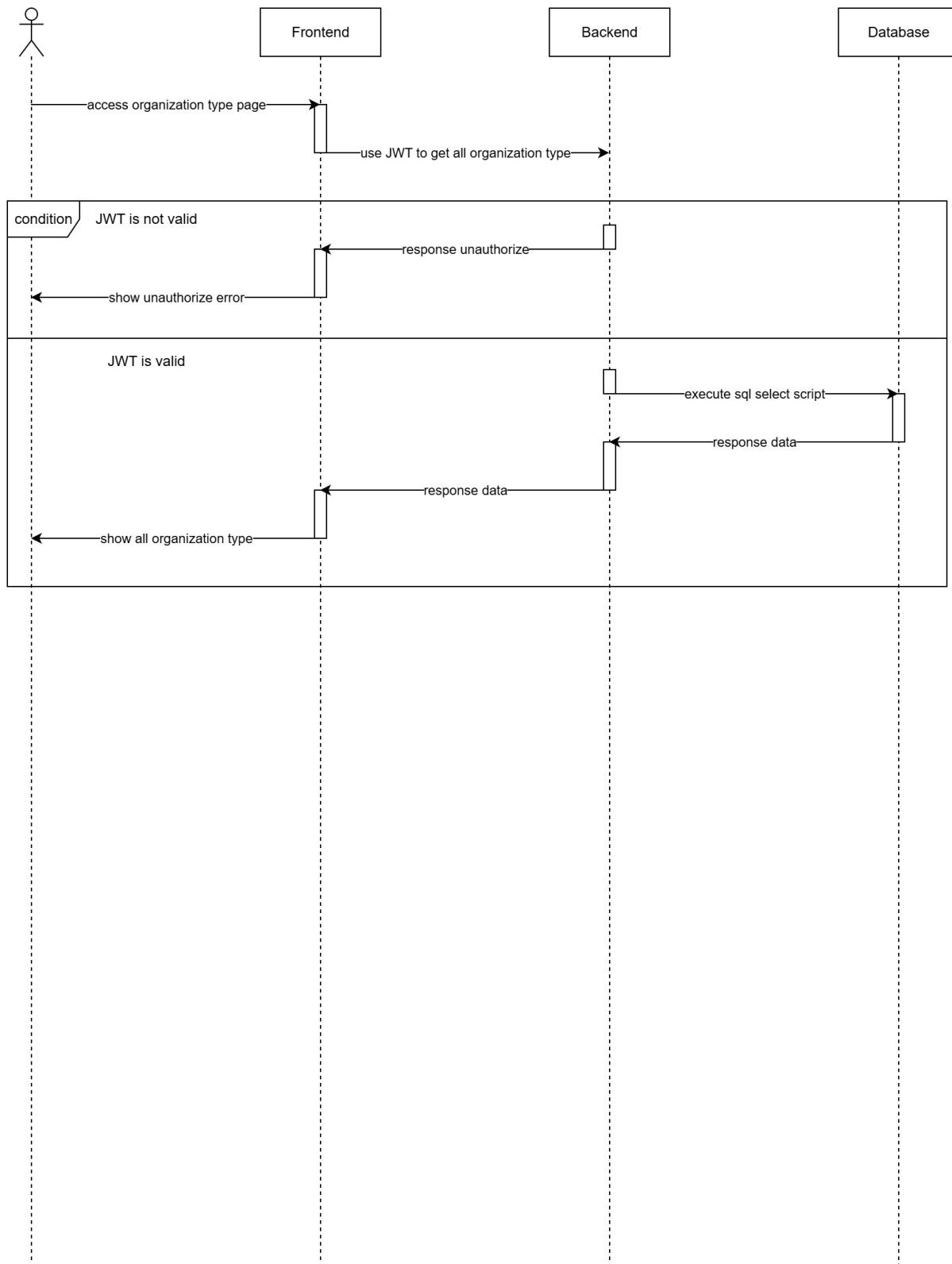
sequence_basetype_admin-31 update marital status type



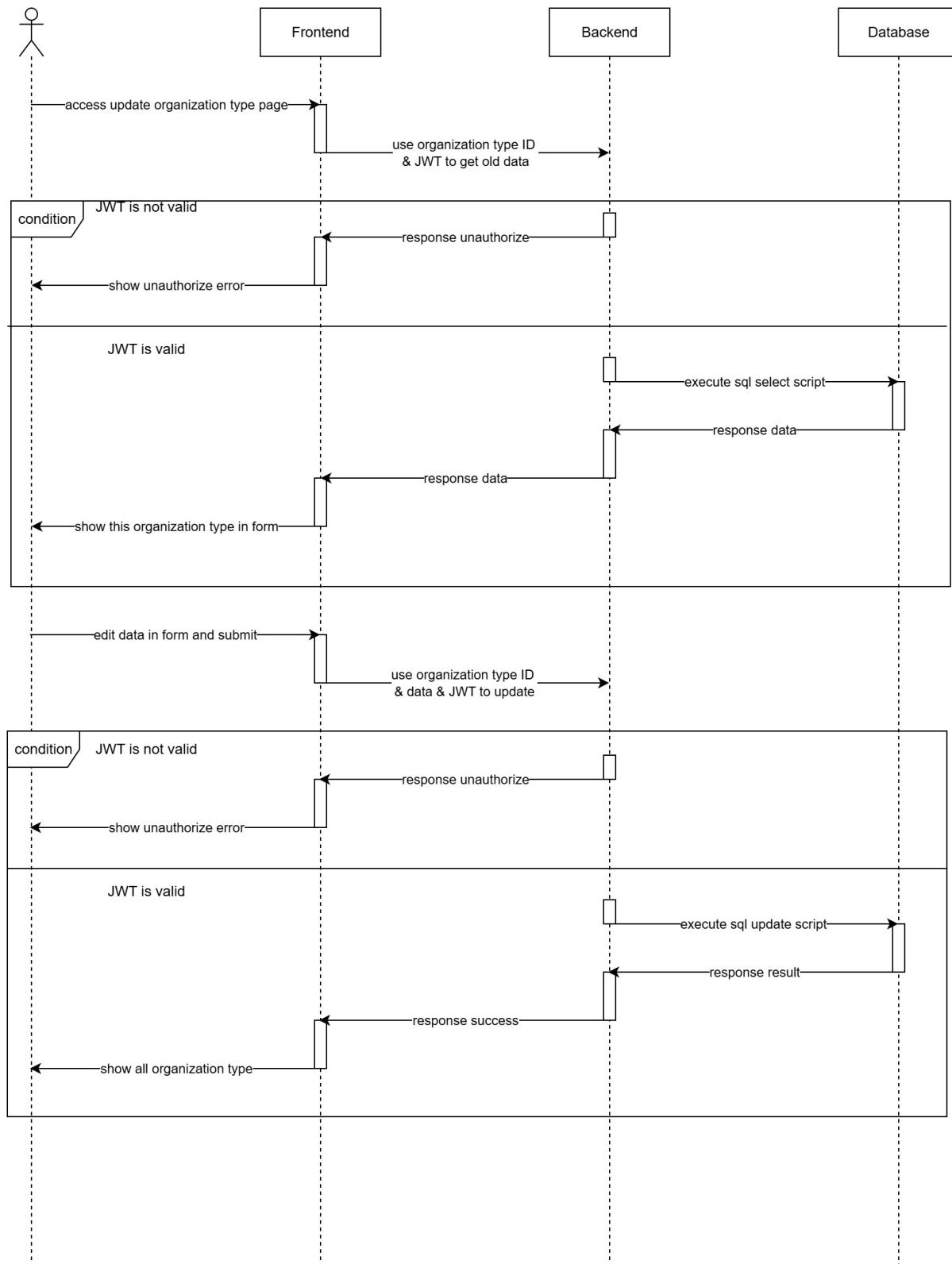
sequence_basetype_admin-32 delete marital status type



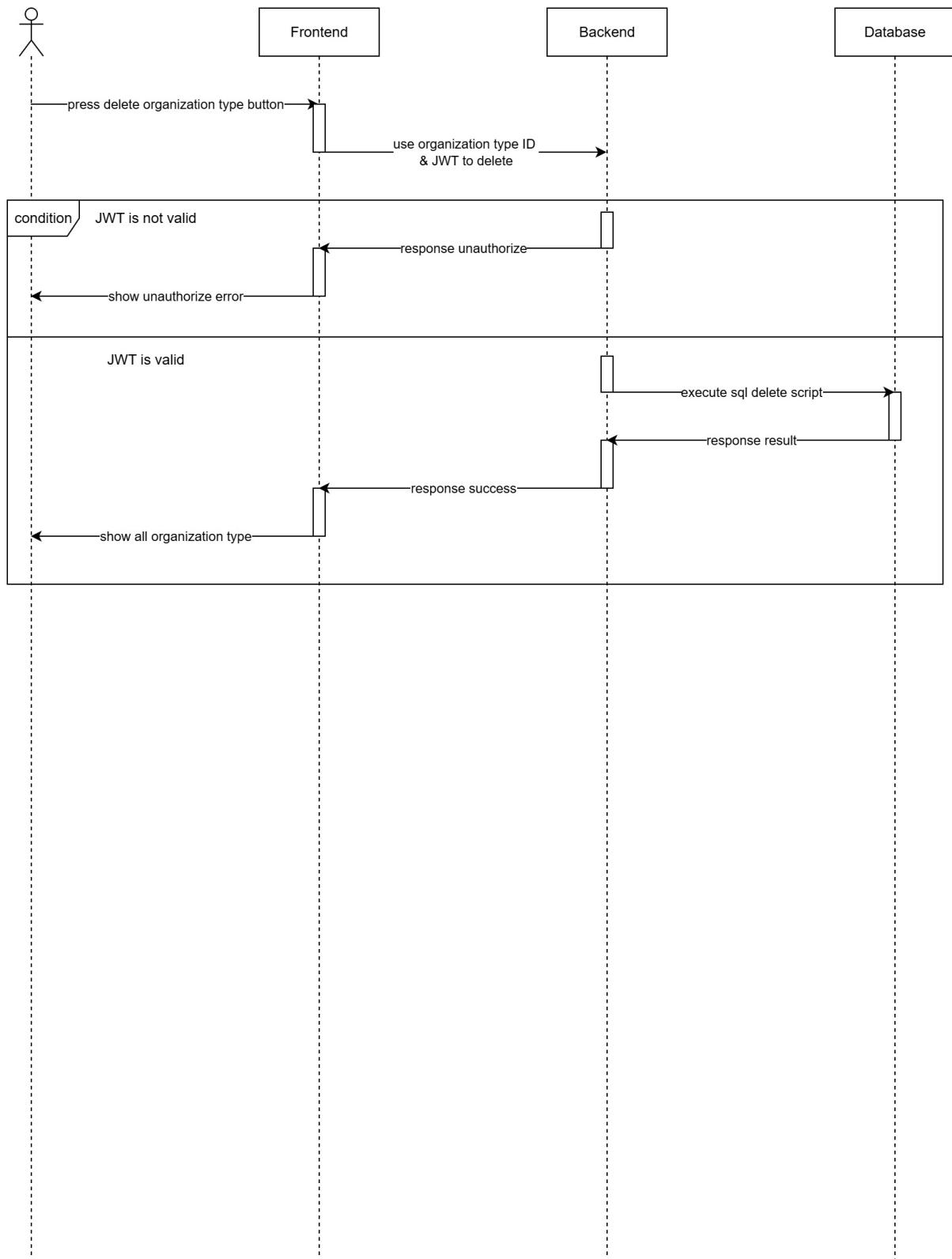
sequence_basetype_admin-33 create organization type



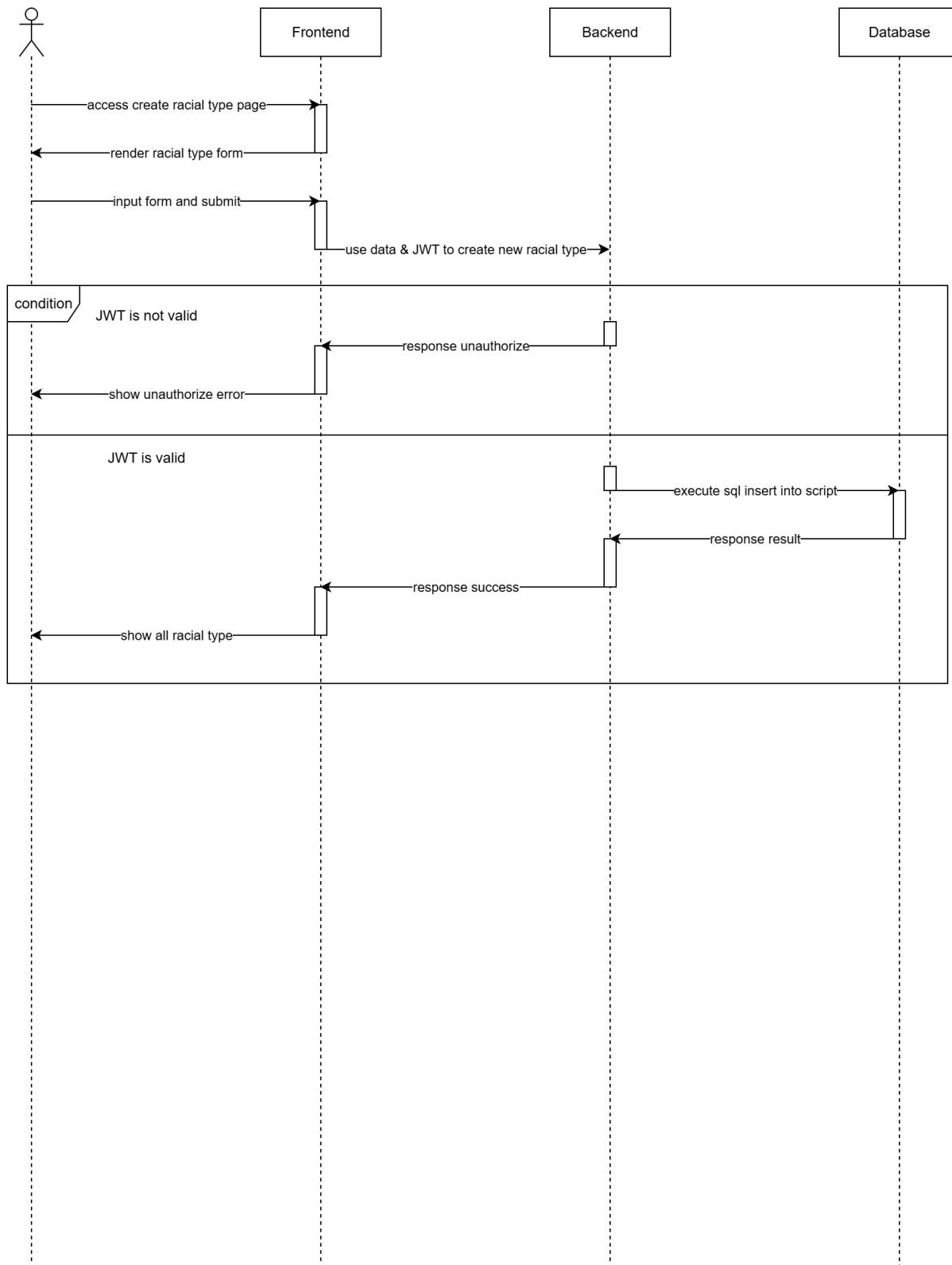
sequence_basetype_admin-34 read organization type



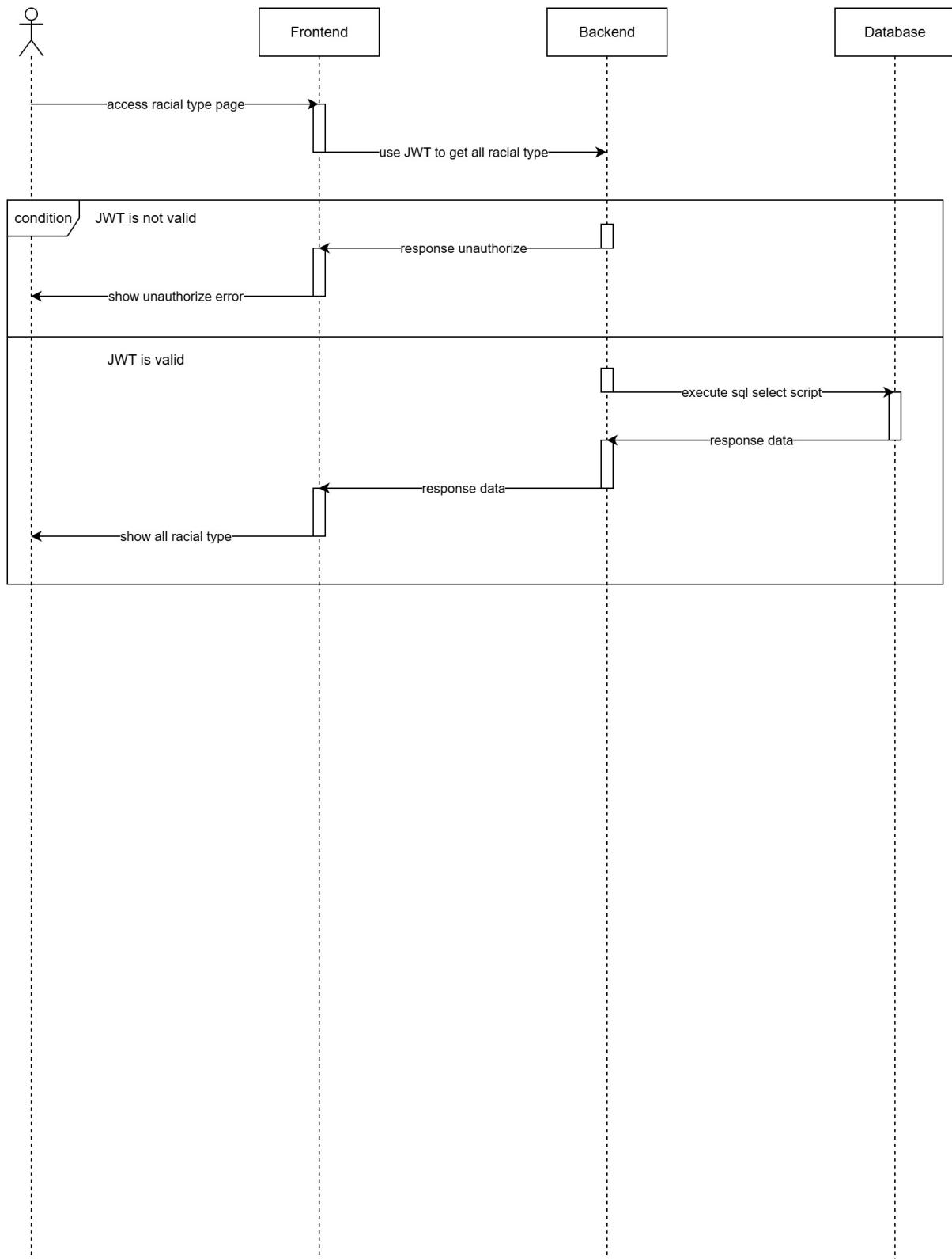
sequence_basetype_admin-35 update organization type



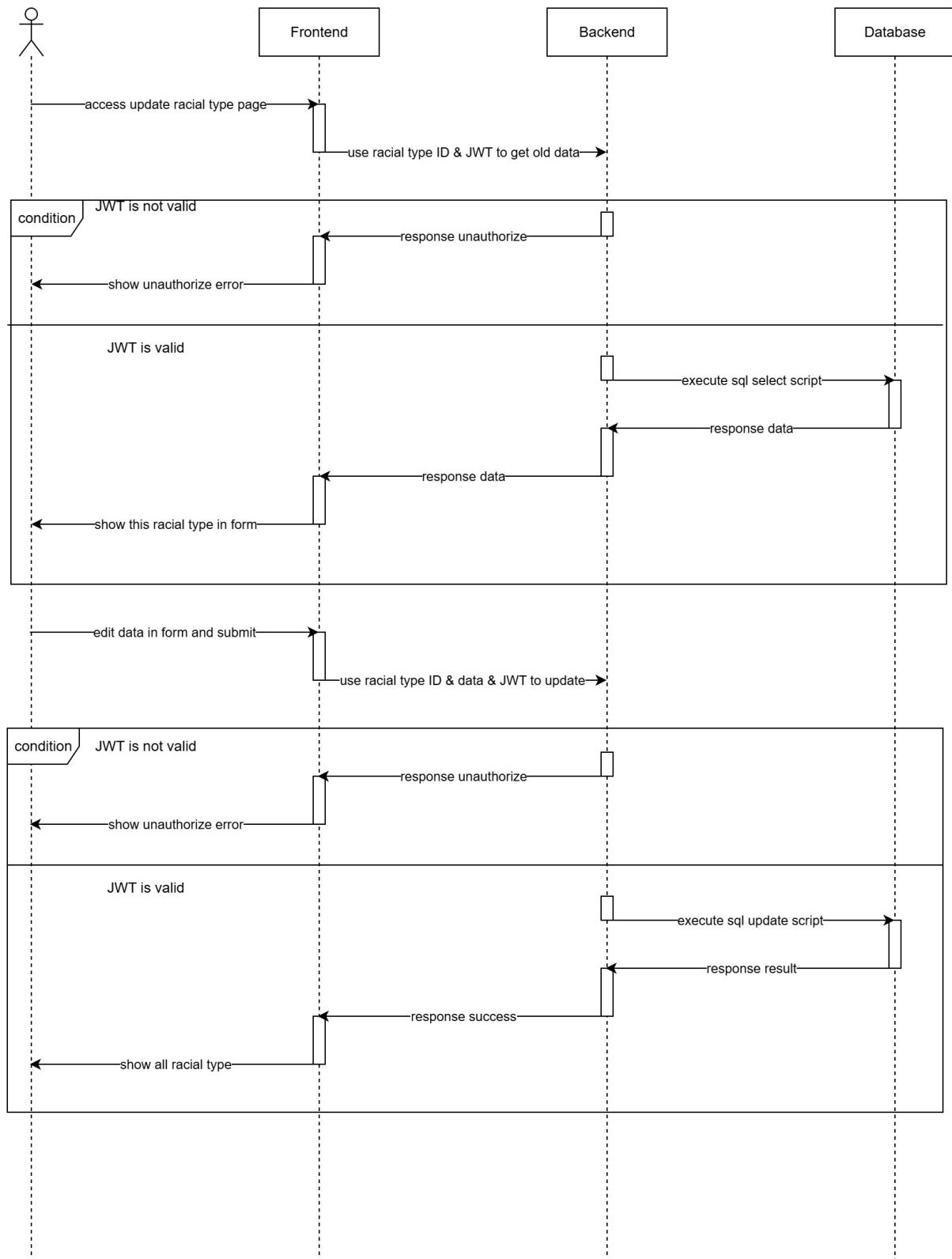
sequence_basetype_admin-36 delete organization type



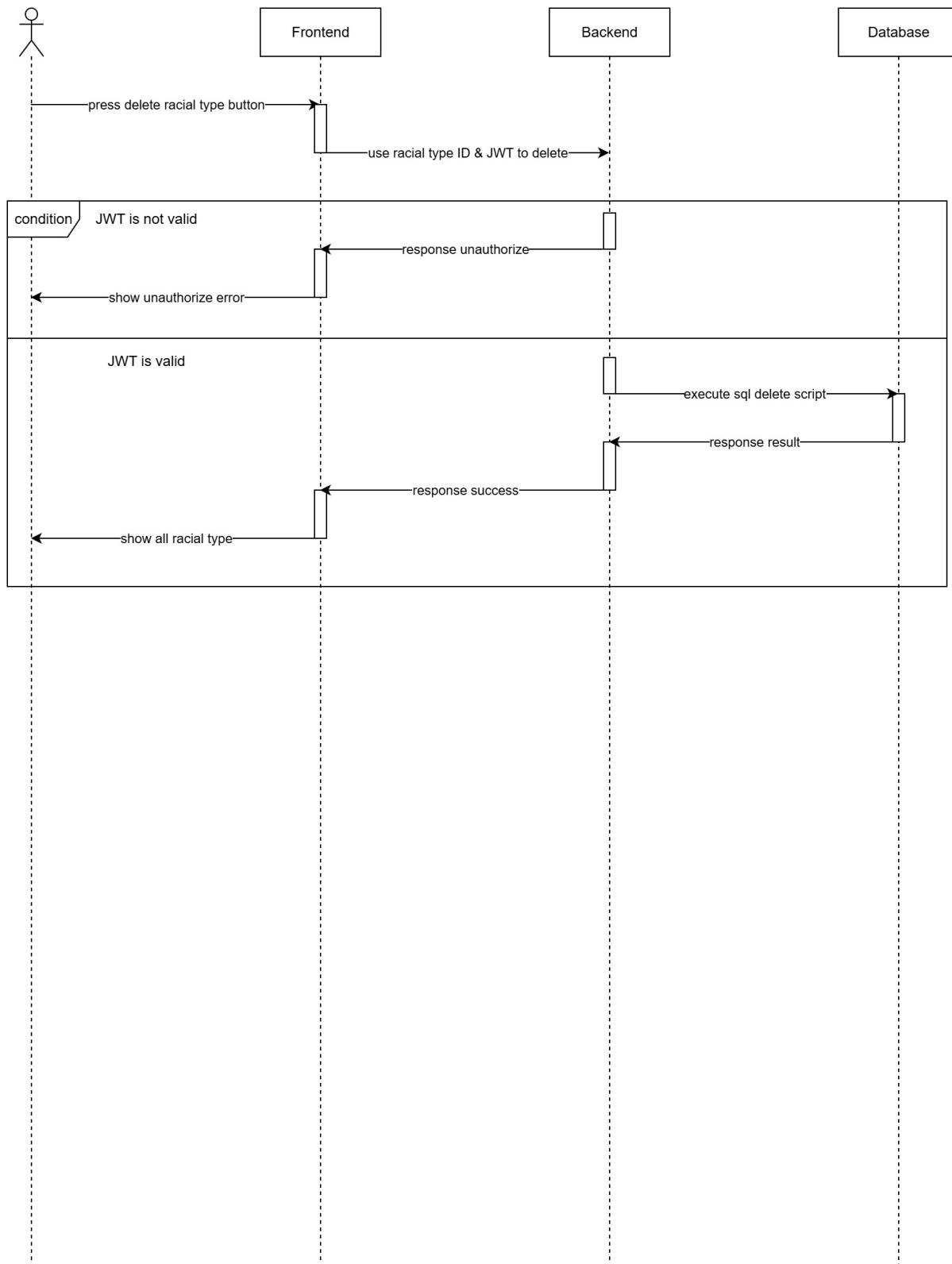
sequence_basetype_admin-37 create racial type



sequence_basetype_admin-38 read racial type

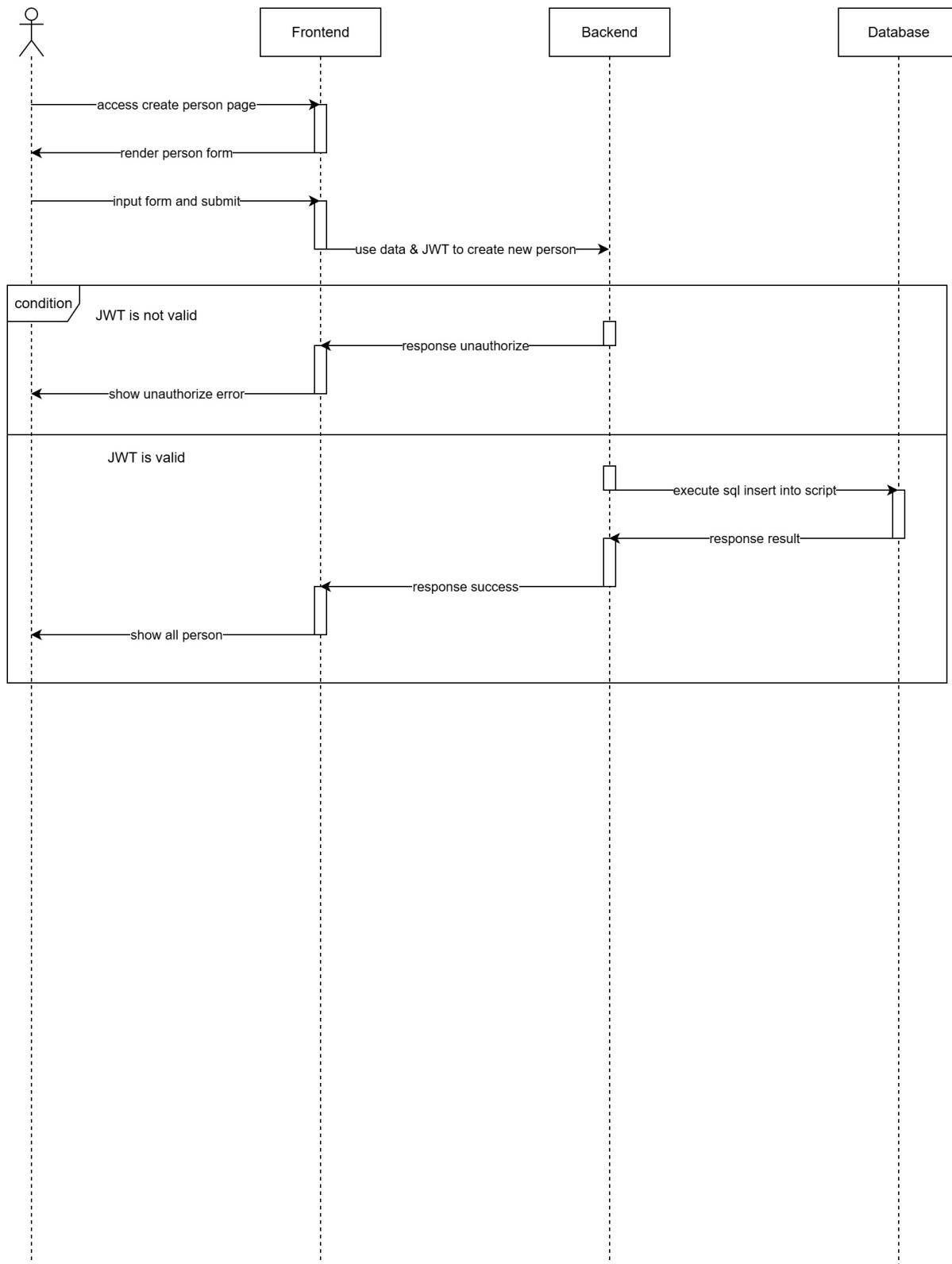


sequence_basetype_admin-39 update racial type

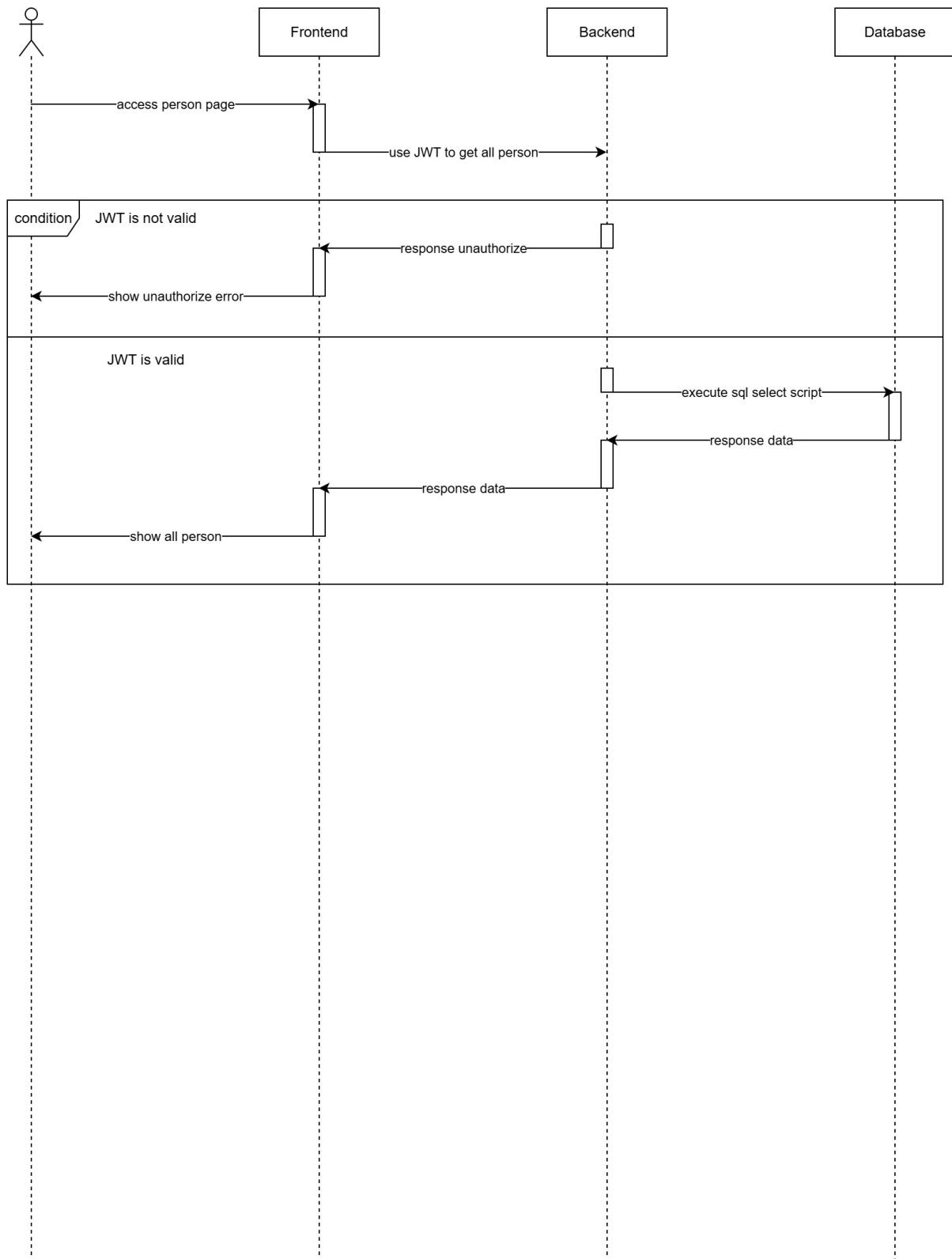


sequence_basetype_admin-40 delete racial type

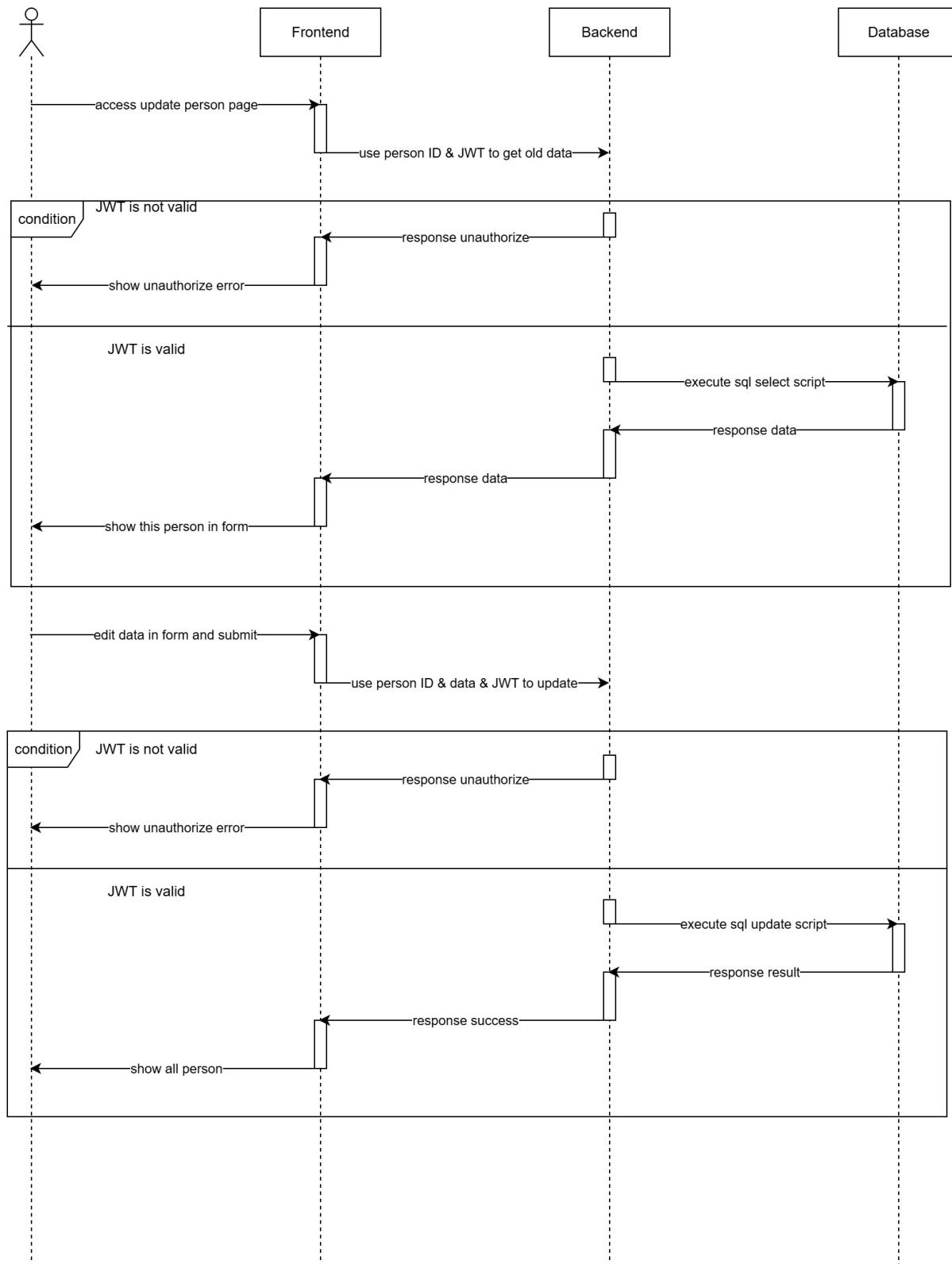
For HR Admin Role



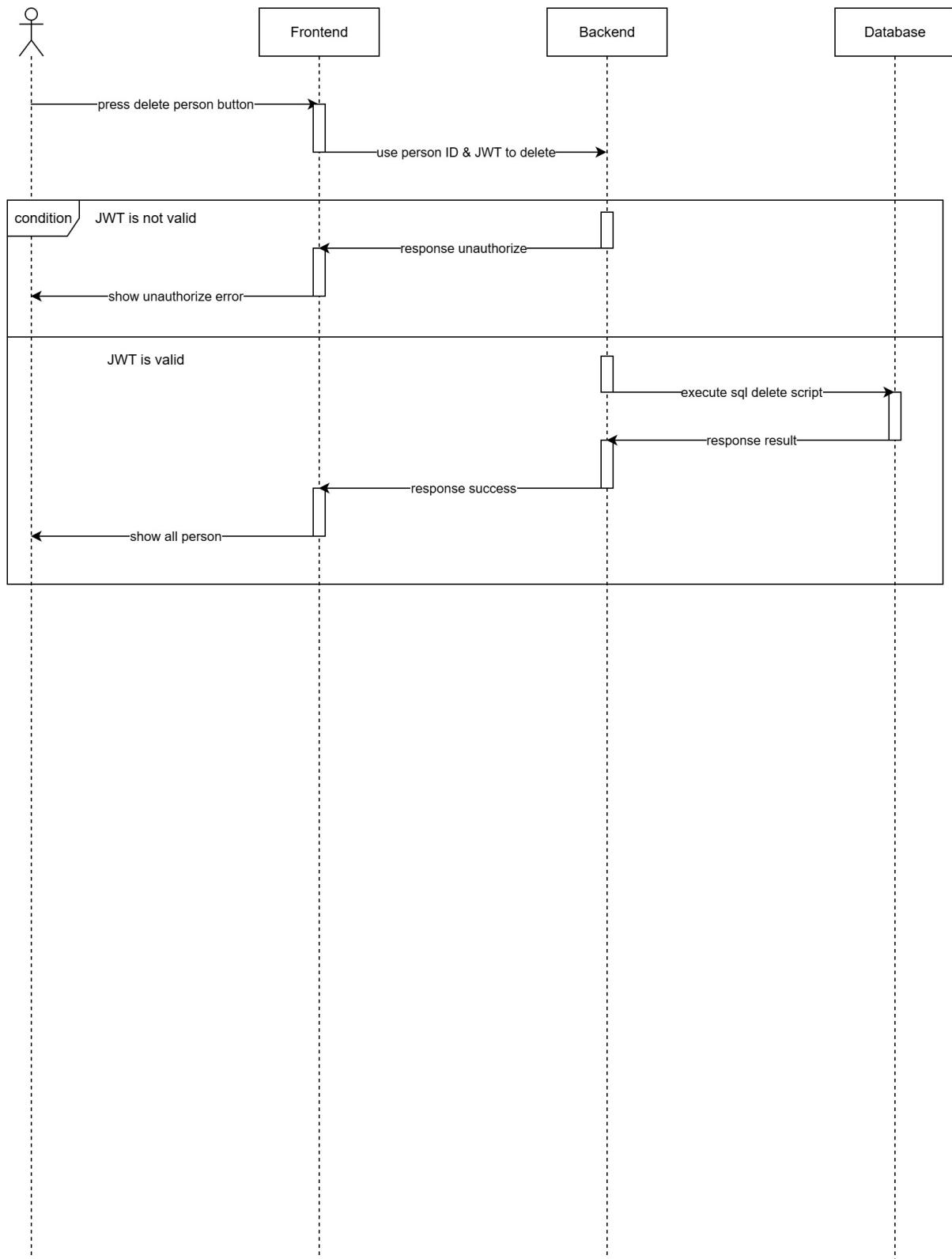
sequence_hr_admin-1 create person



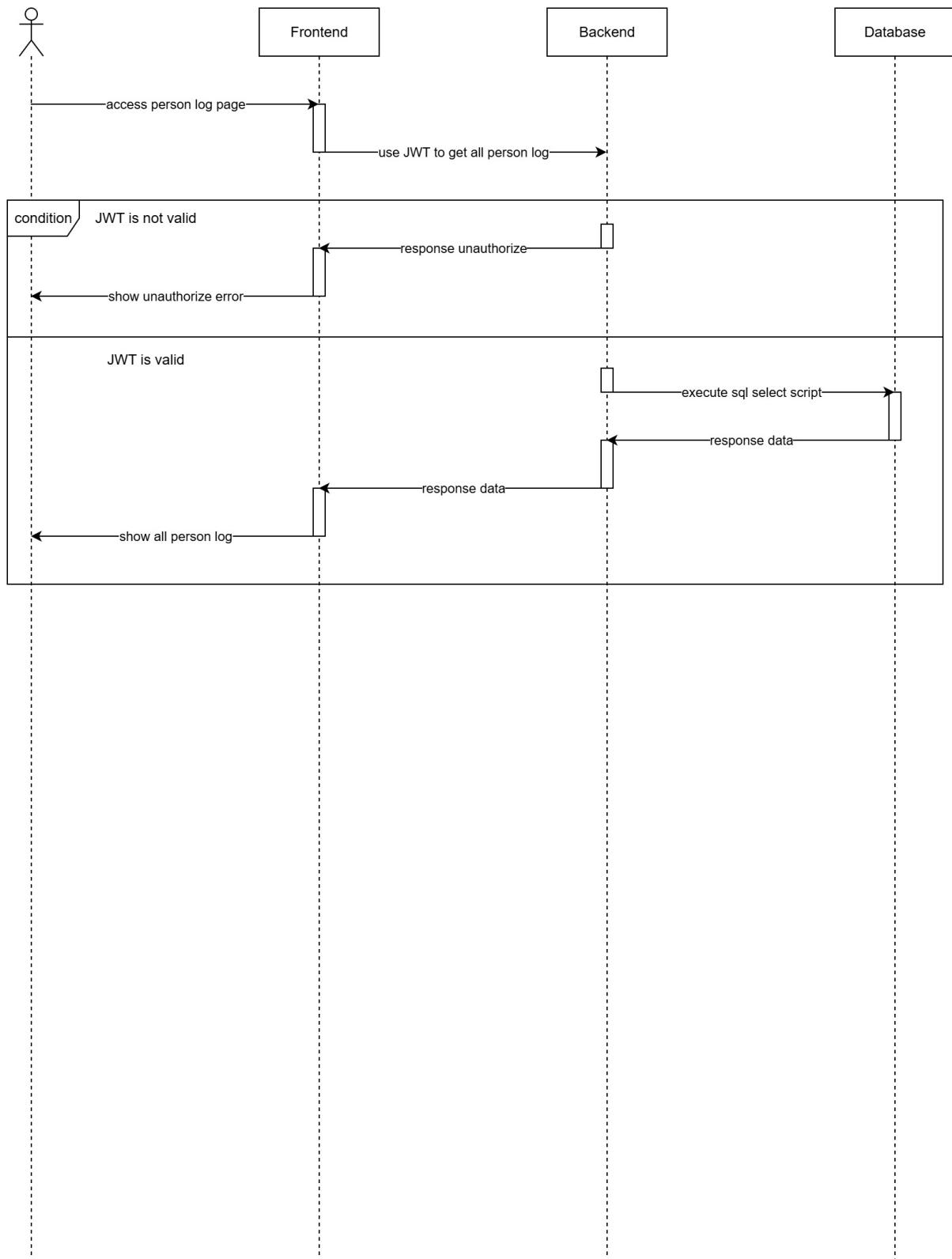
sequence_hr_admin-2 read person



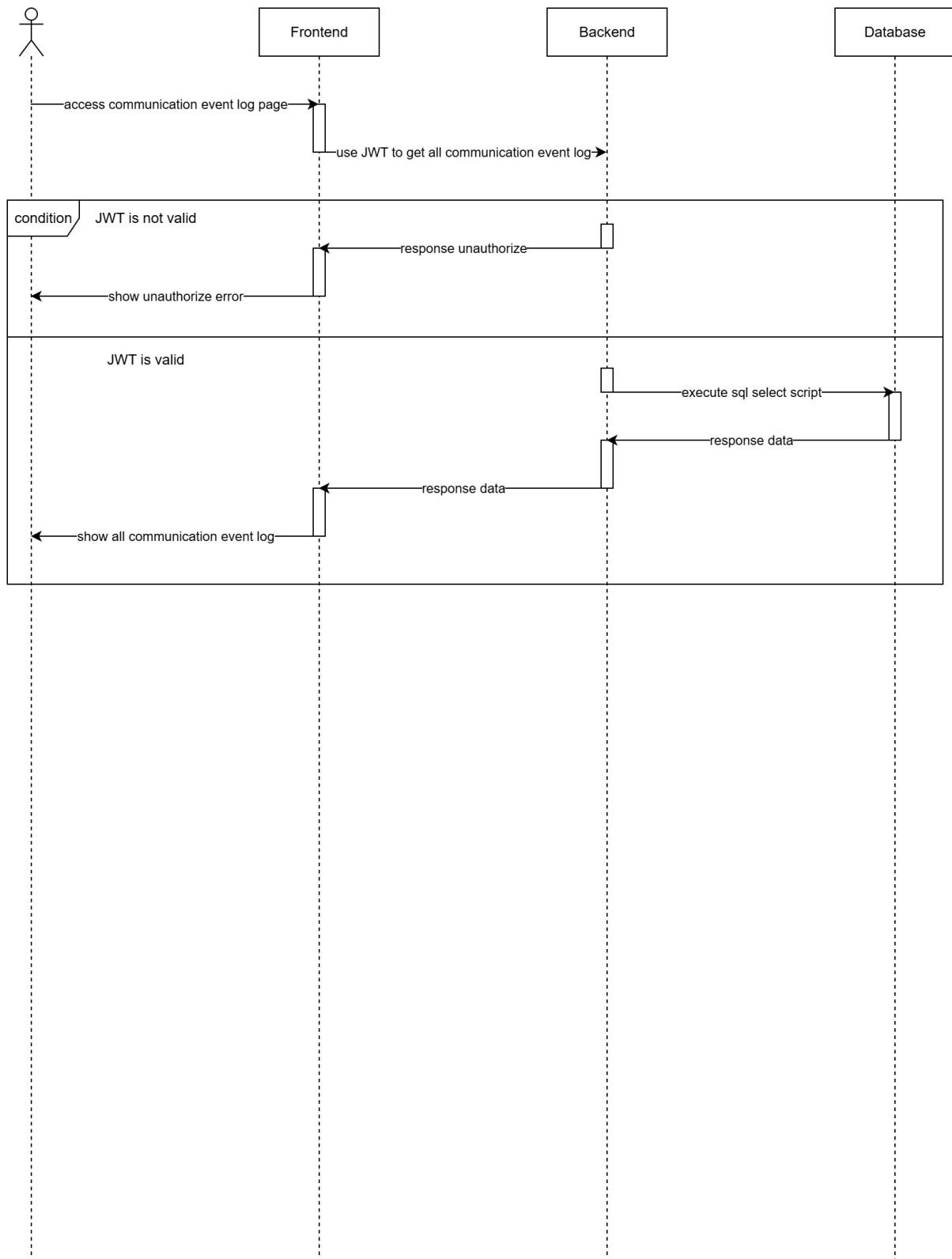
sequence_hr_admin-3 update person



sequence_hr_admin-4 delete person

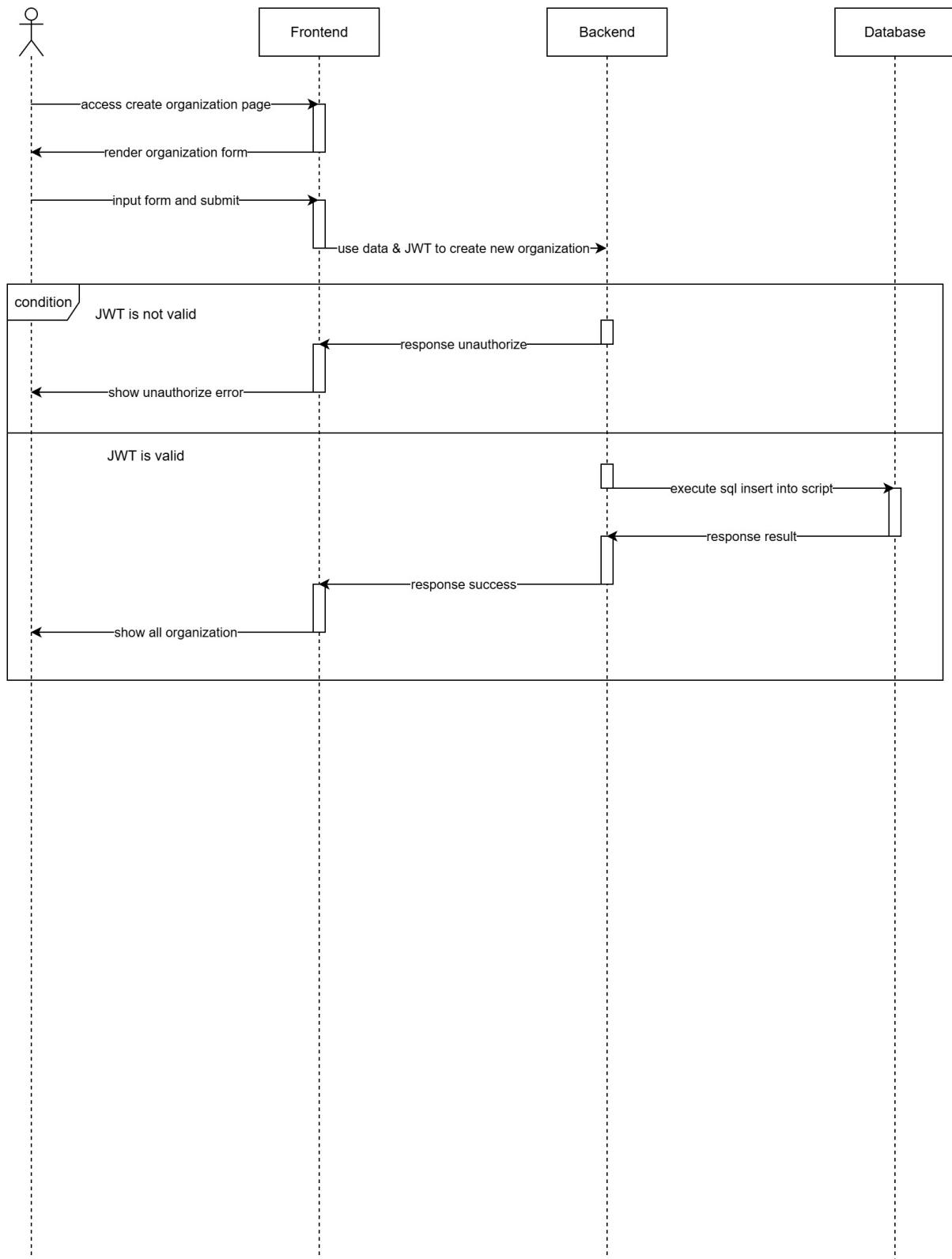


sequence_hr_admin-5 read person log

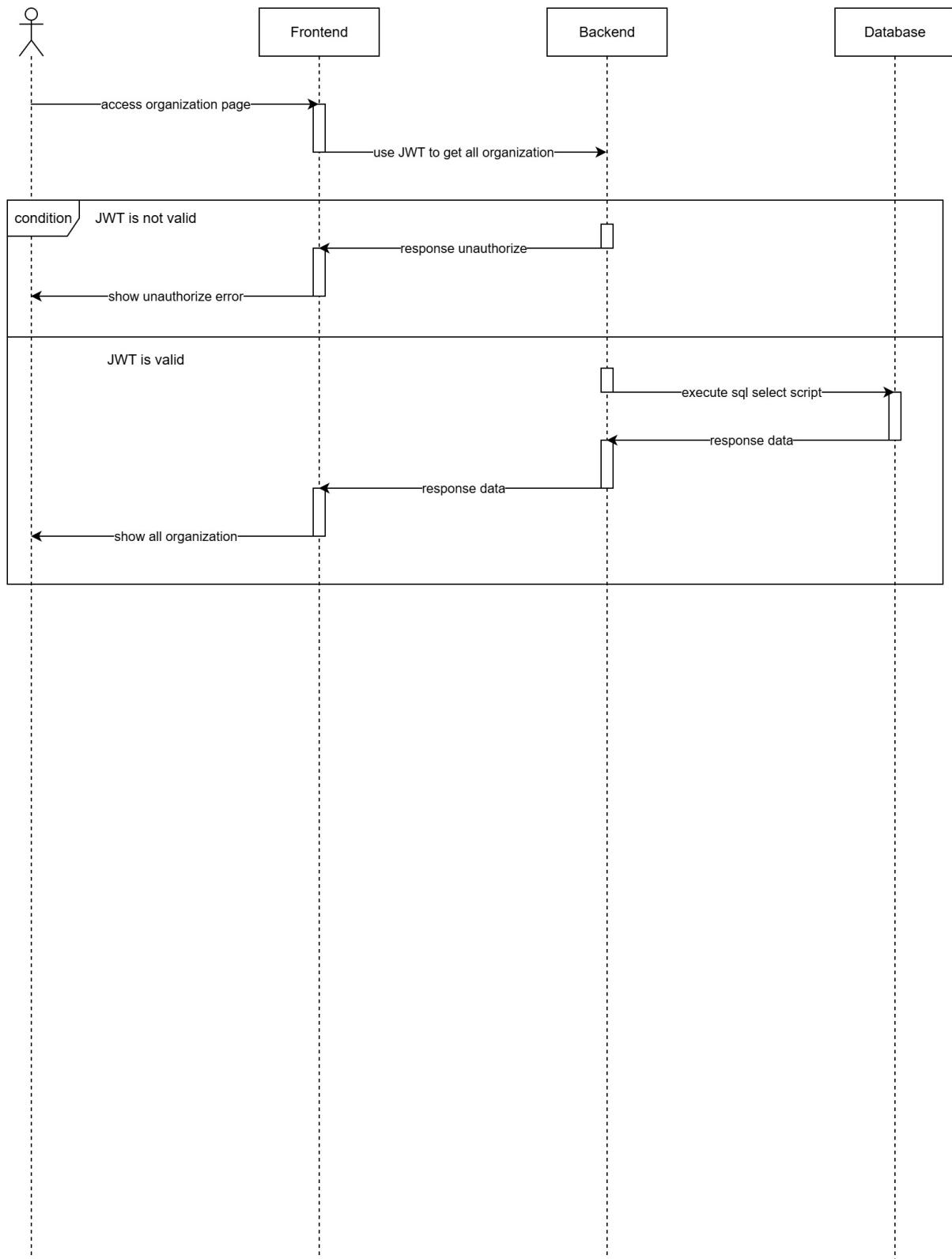


sequence_hr_admin-6 read communication event log

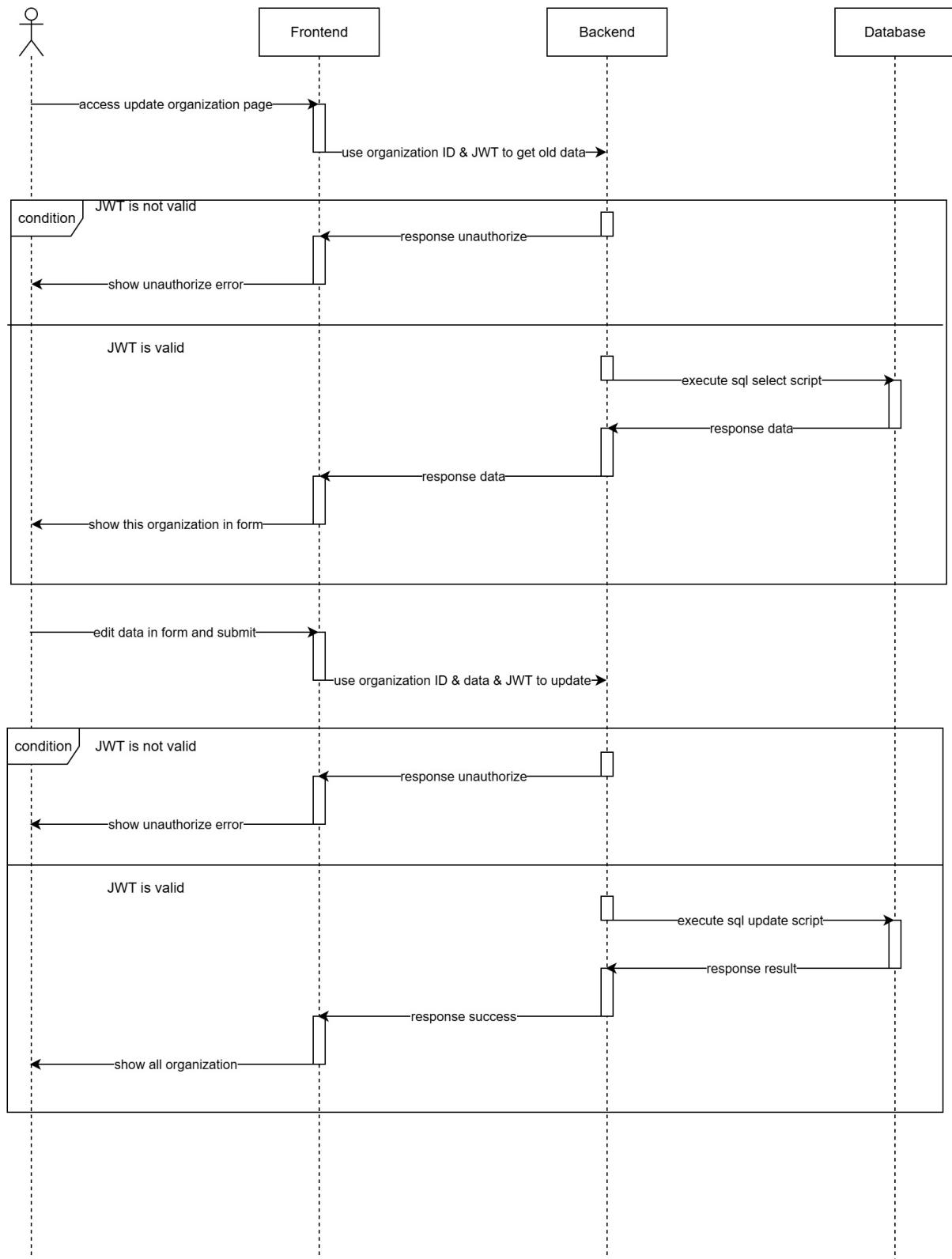
For Organization Admin Role



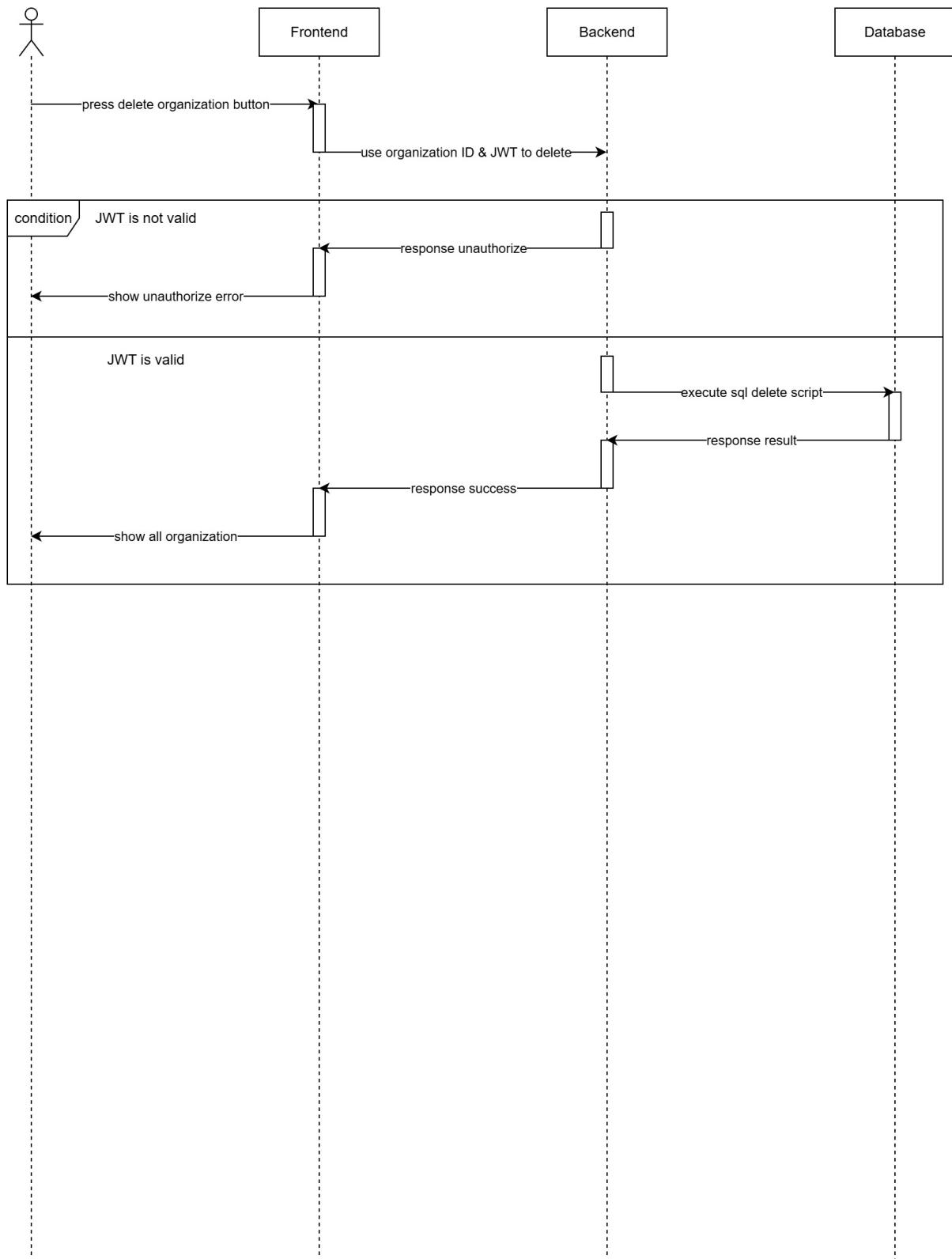
sequence_organization_admin-1 create organization



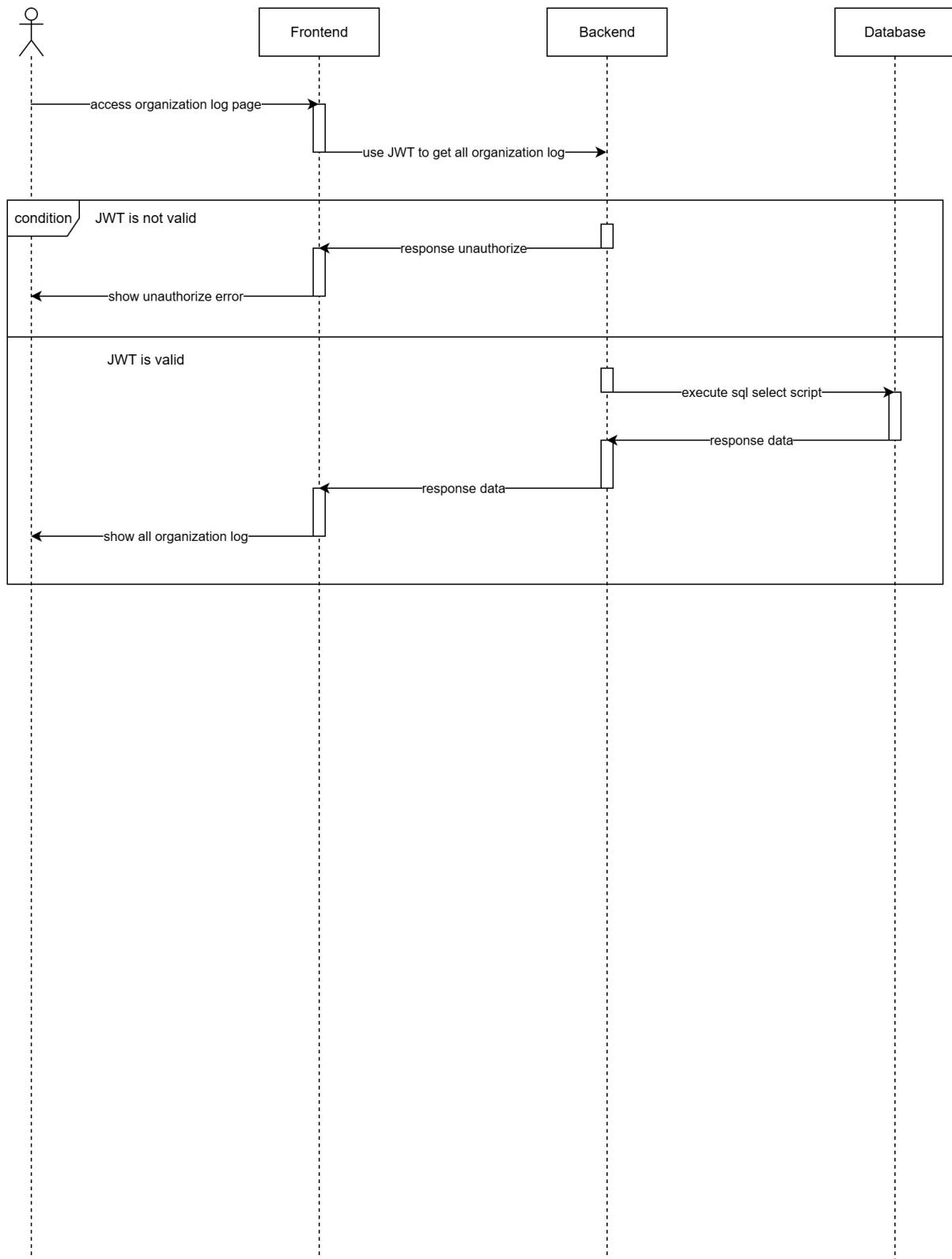
sequence_orgnization_admin-2 read organization



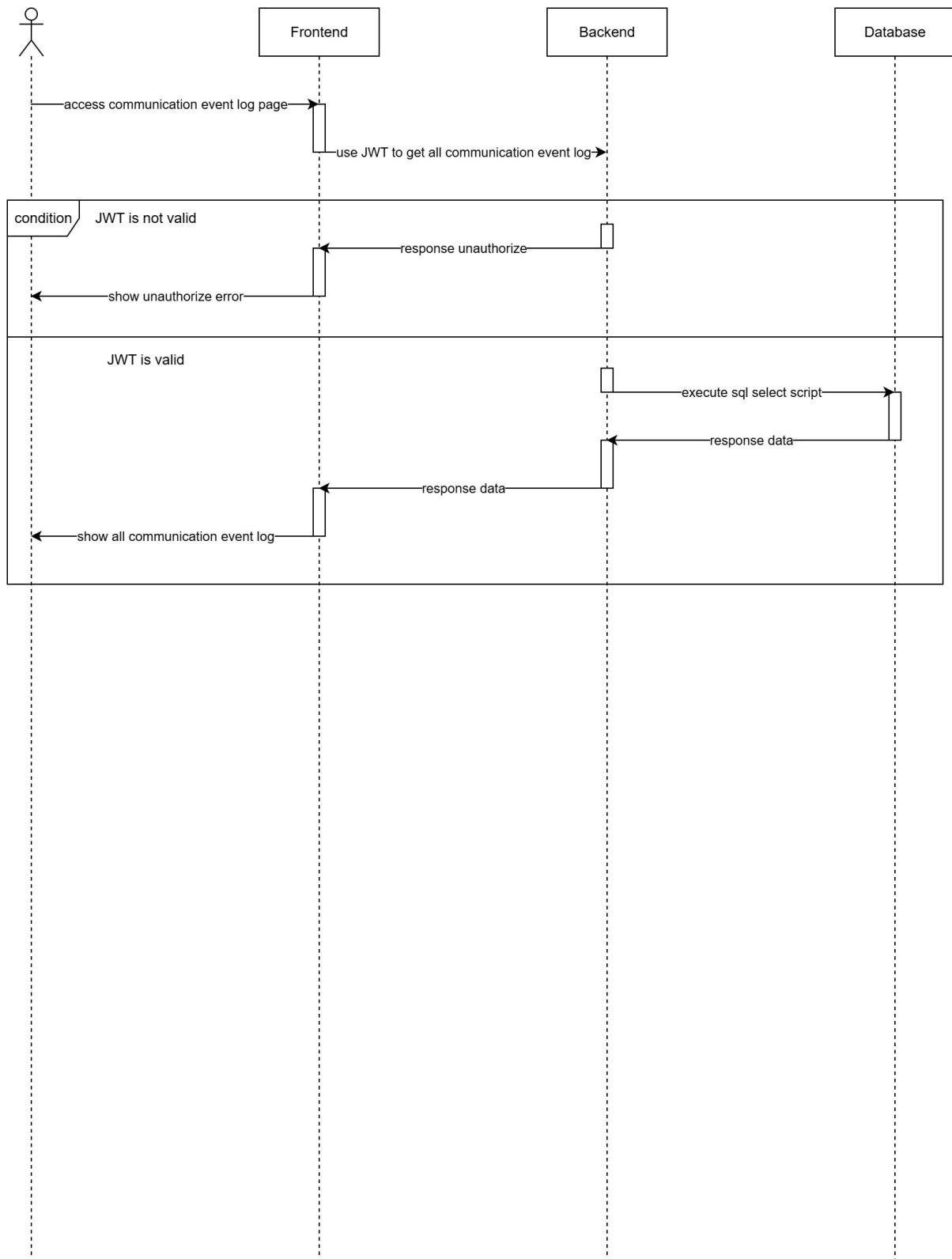
sequence_orgnization_admin-3 update organization



sequence_orgnization_admin-4 delete organization

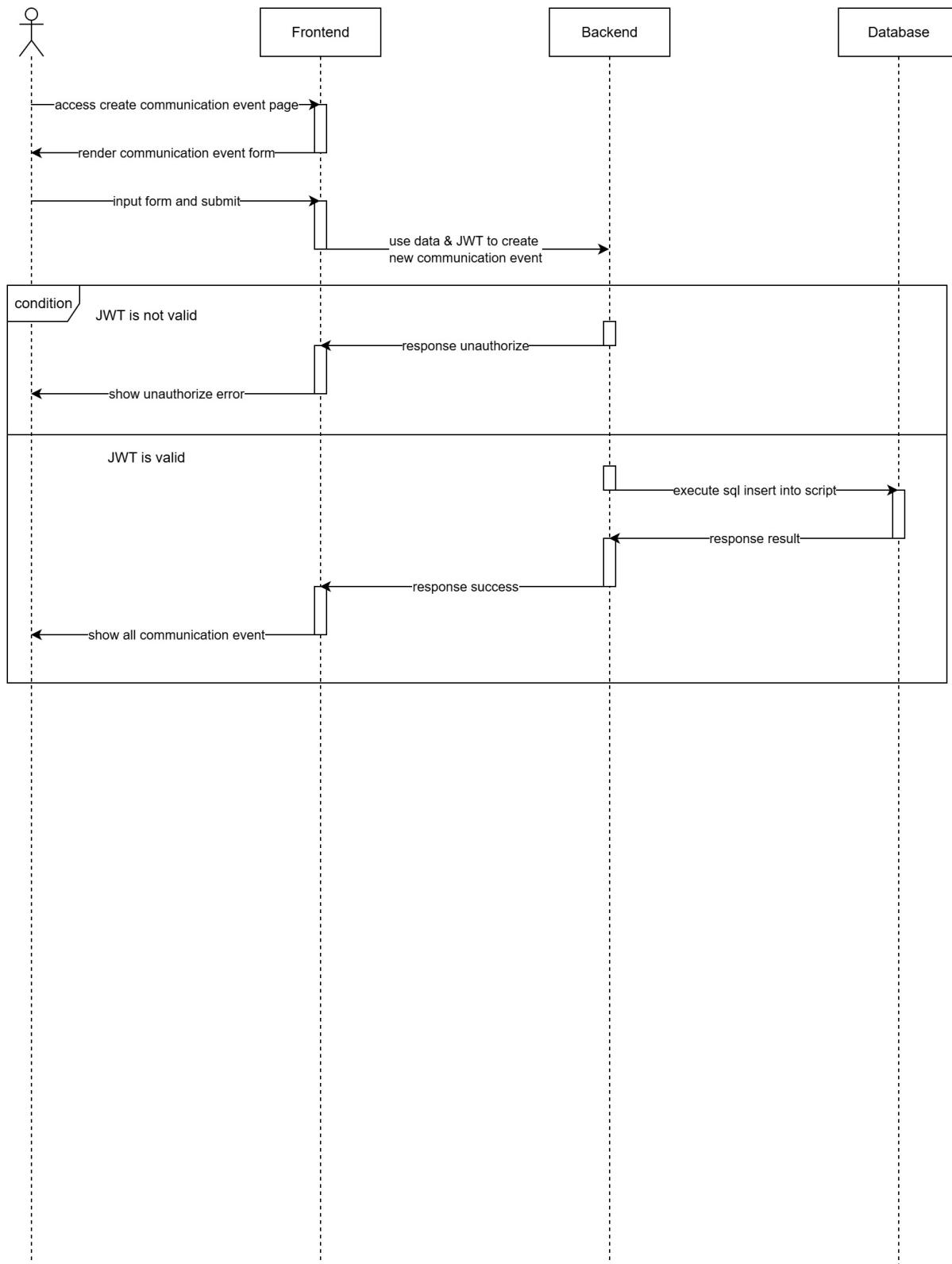


sequence_orgnization_admin-5 read organization log

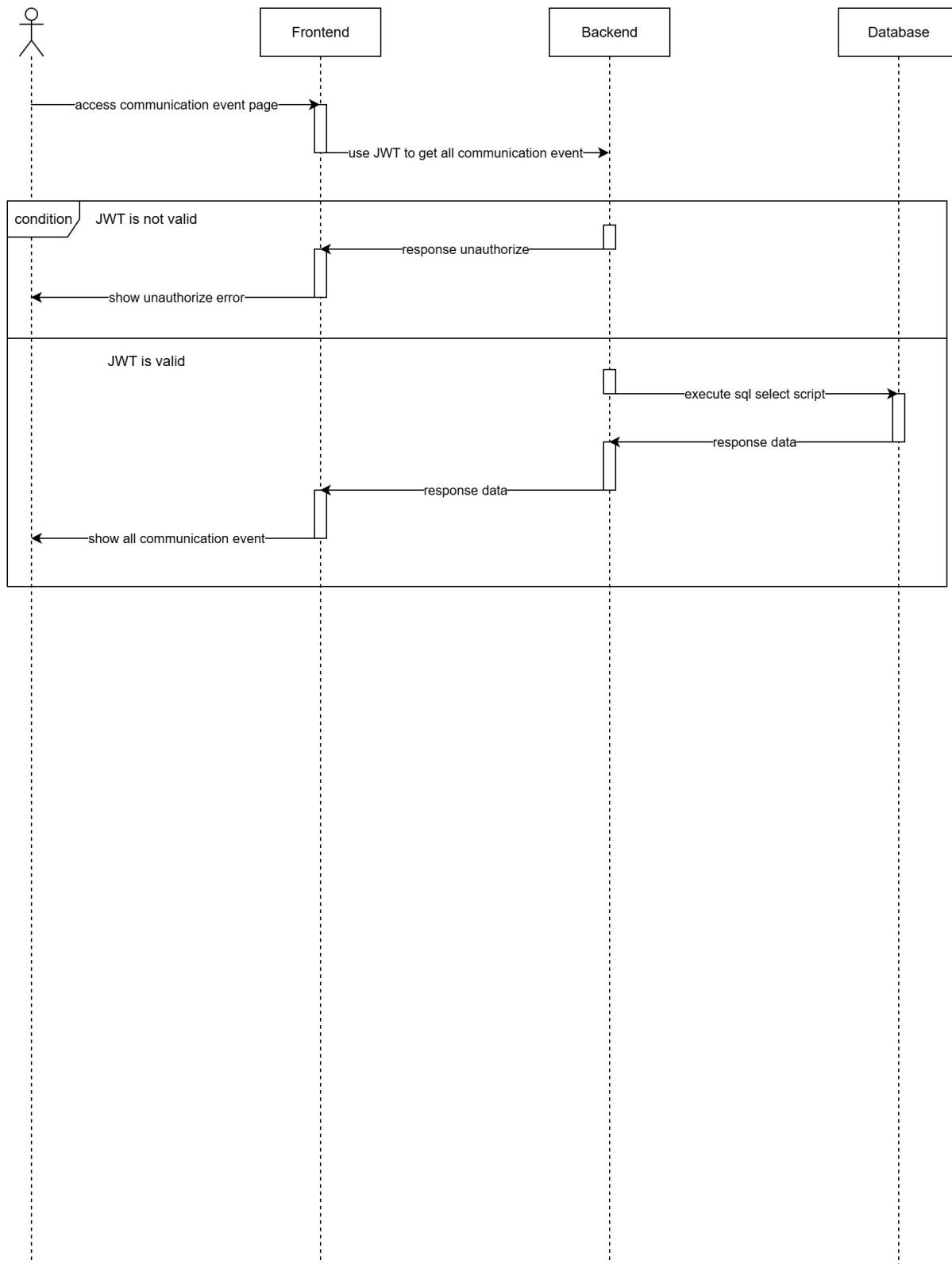


sequence_orgnization_admin-6 read communication event log

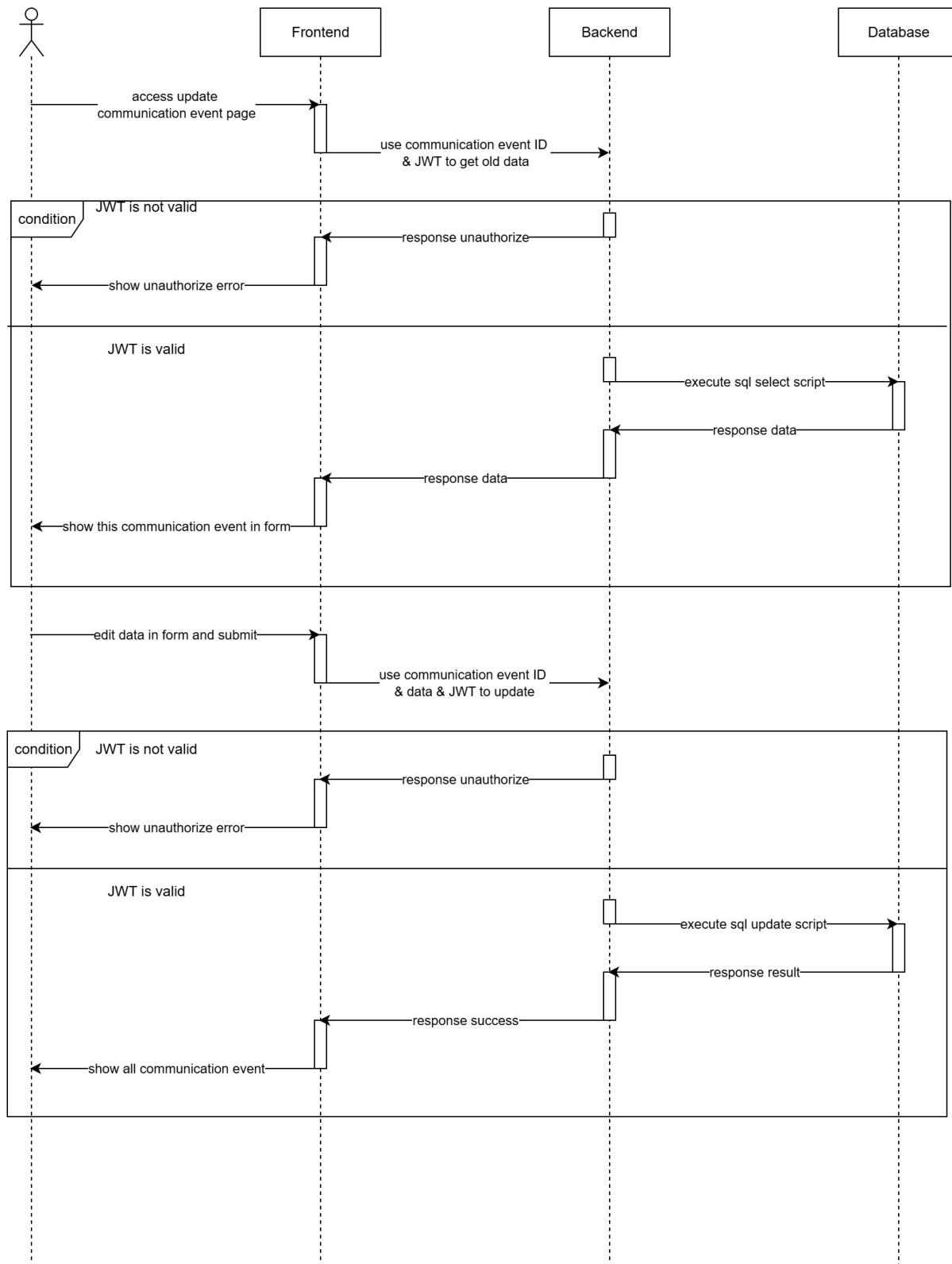
For Organization Person User Role



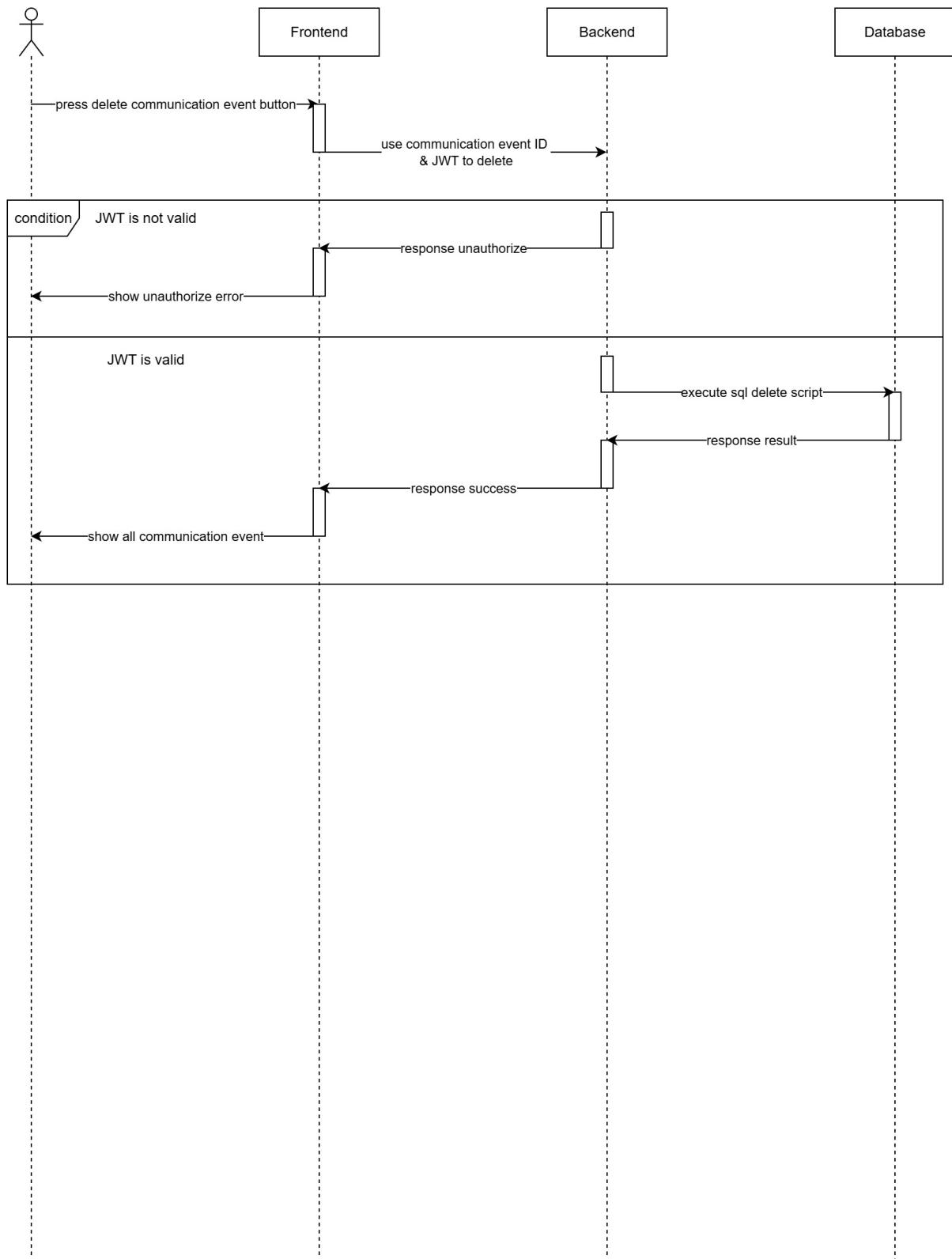
sequence_person_organization_user-1 create communication event



sequence_person_organization_user-2 read communication event

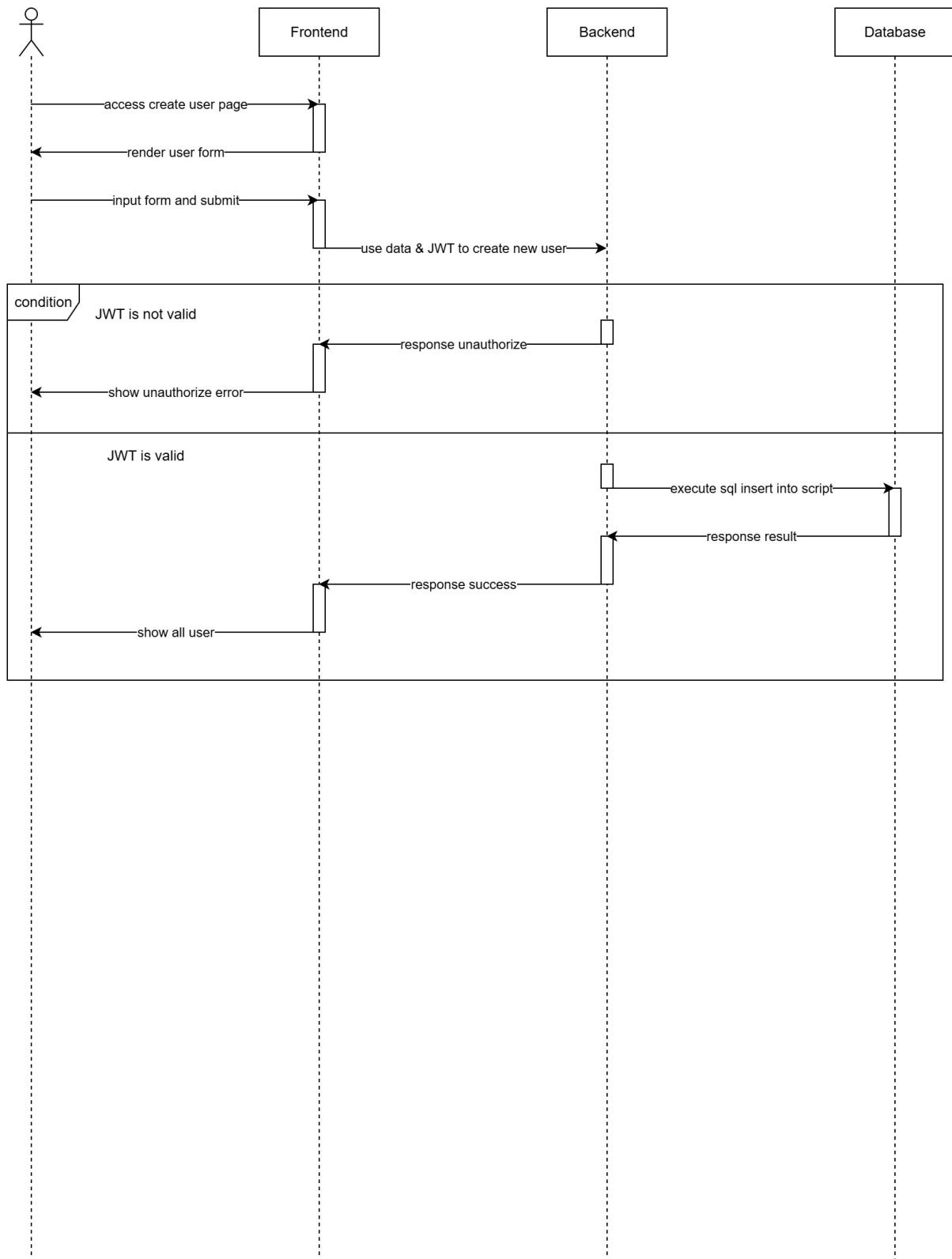


sequence_person_organization_user-3 update communication event

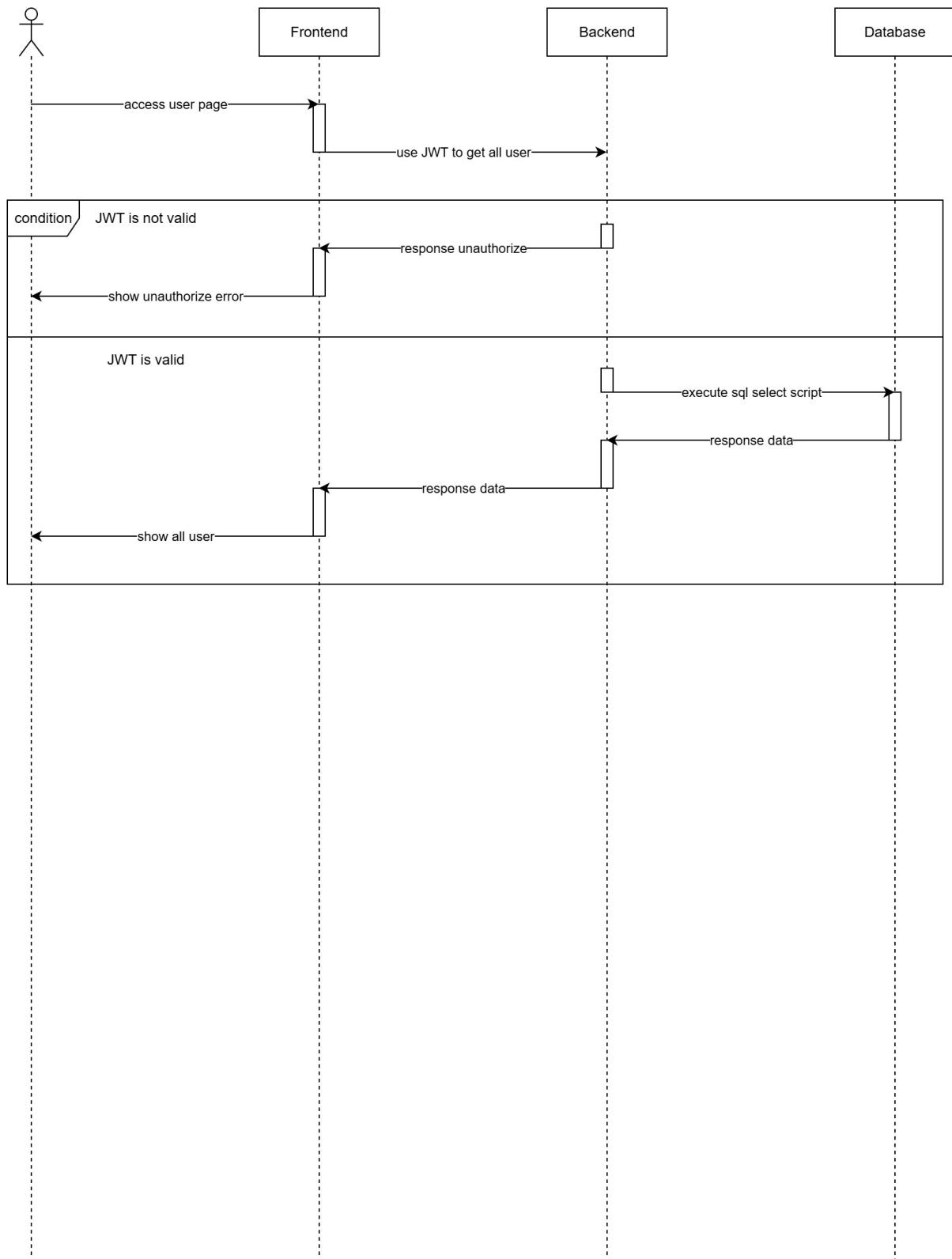


sequence_person_organization_user-4 delete communication event

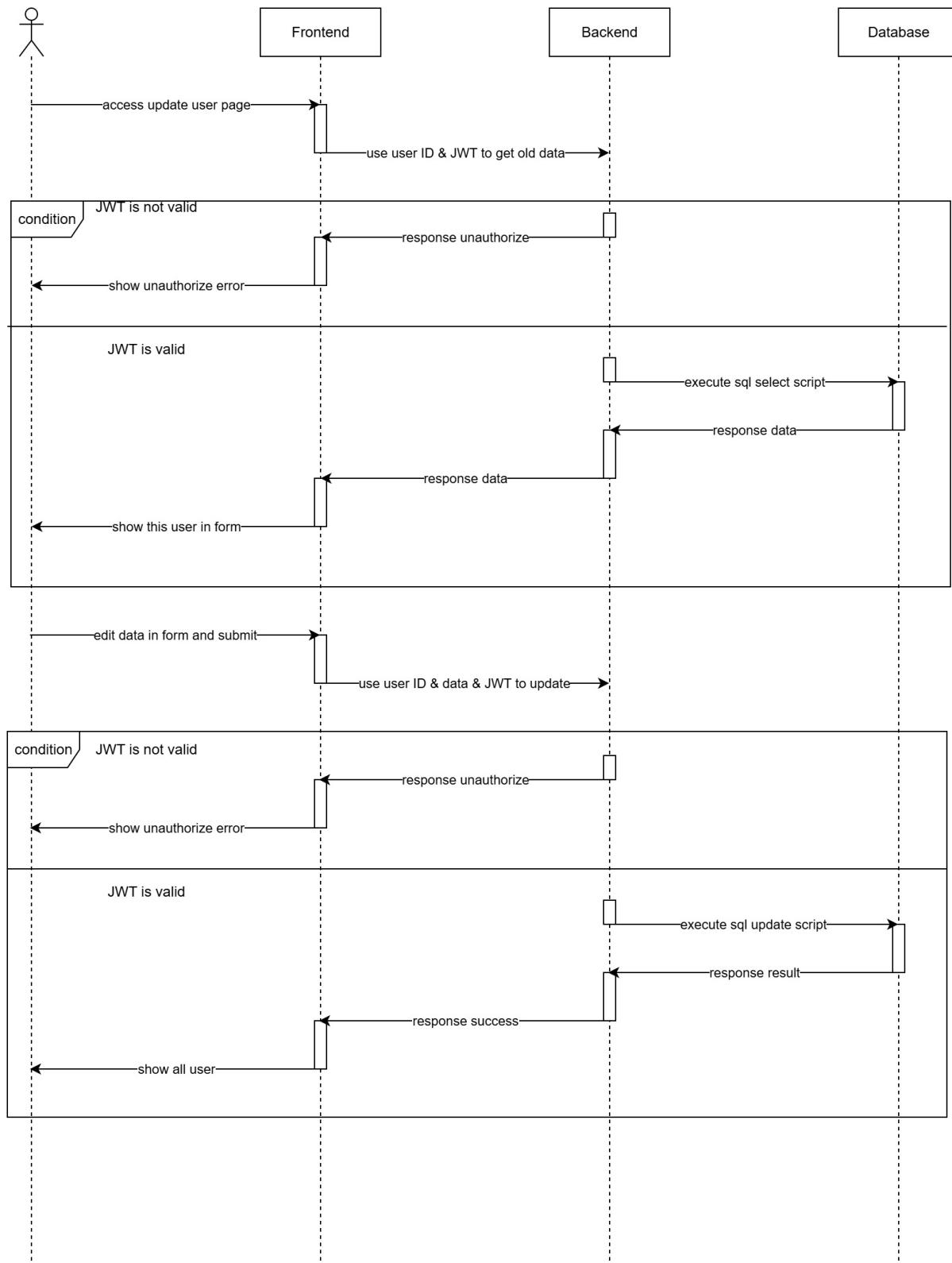
For System Admin



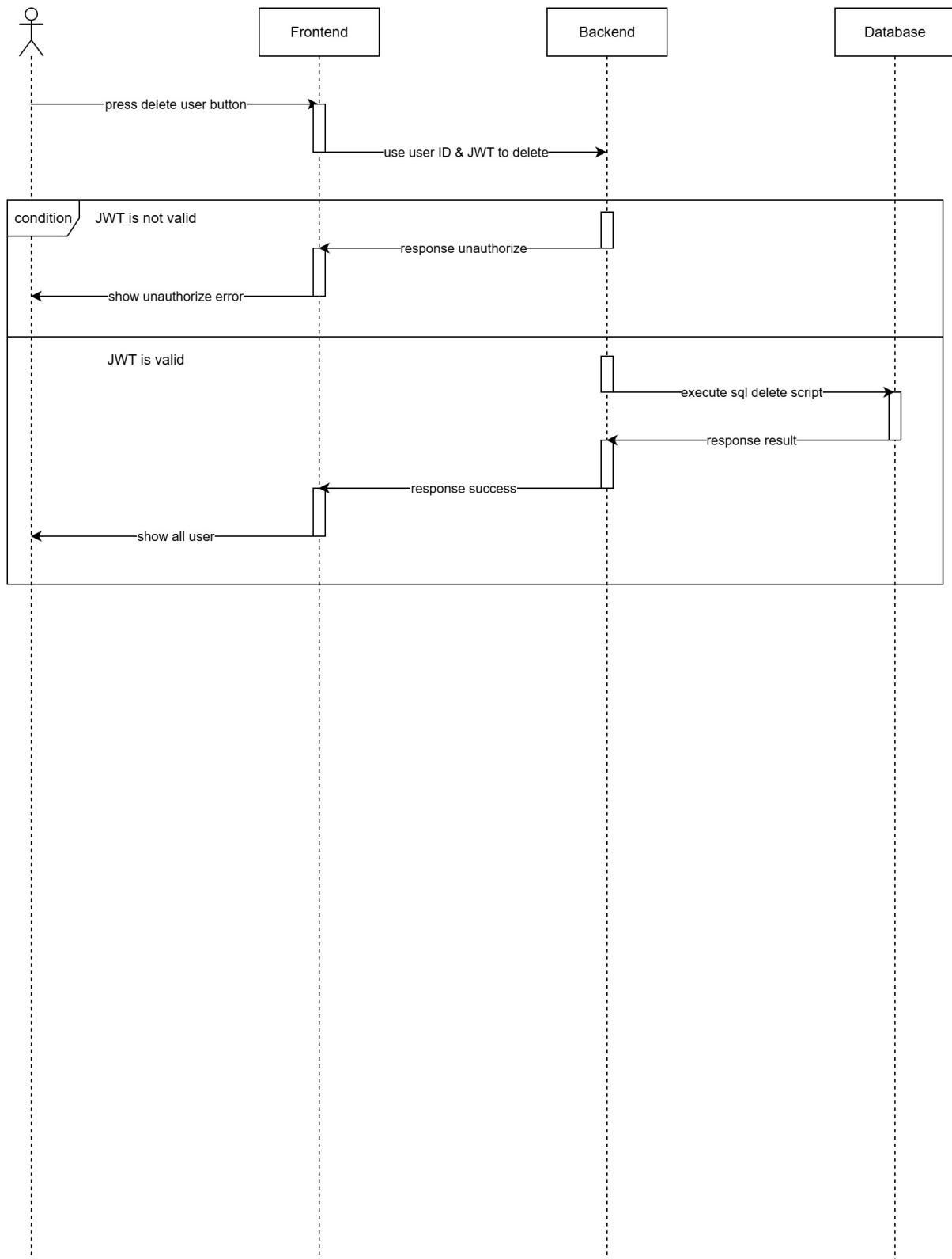
sequence_system_admin-1 create user



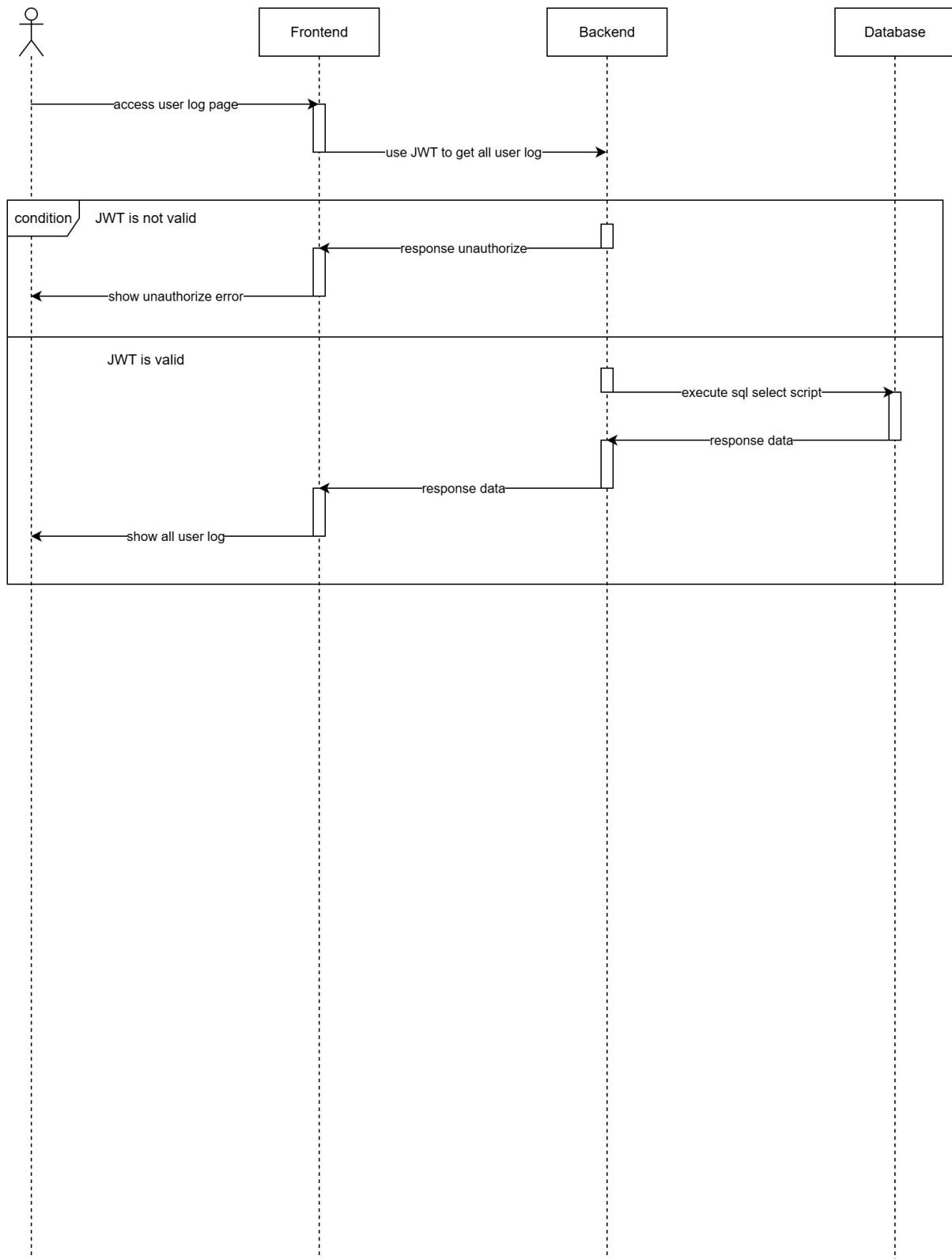
sequence_system_admin-2 read user



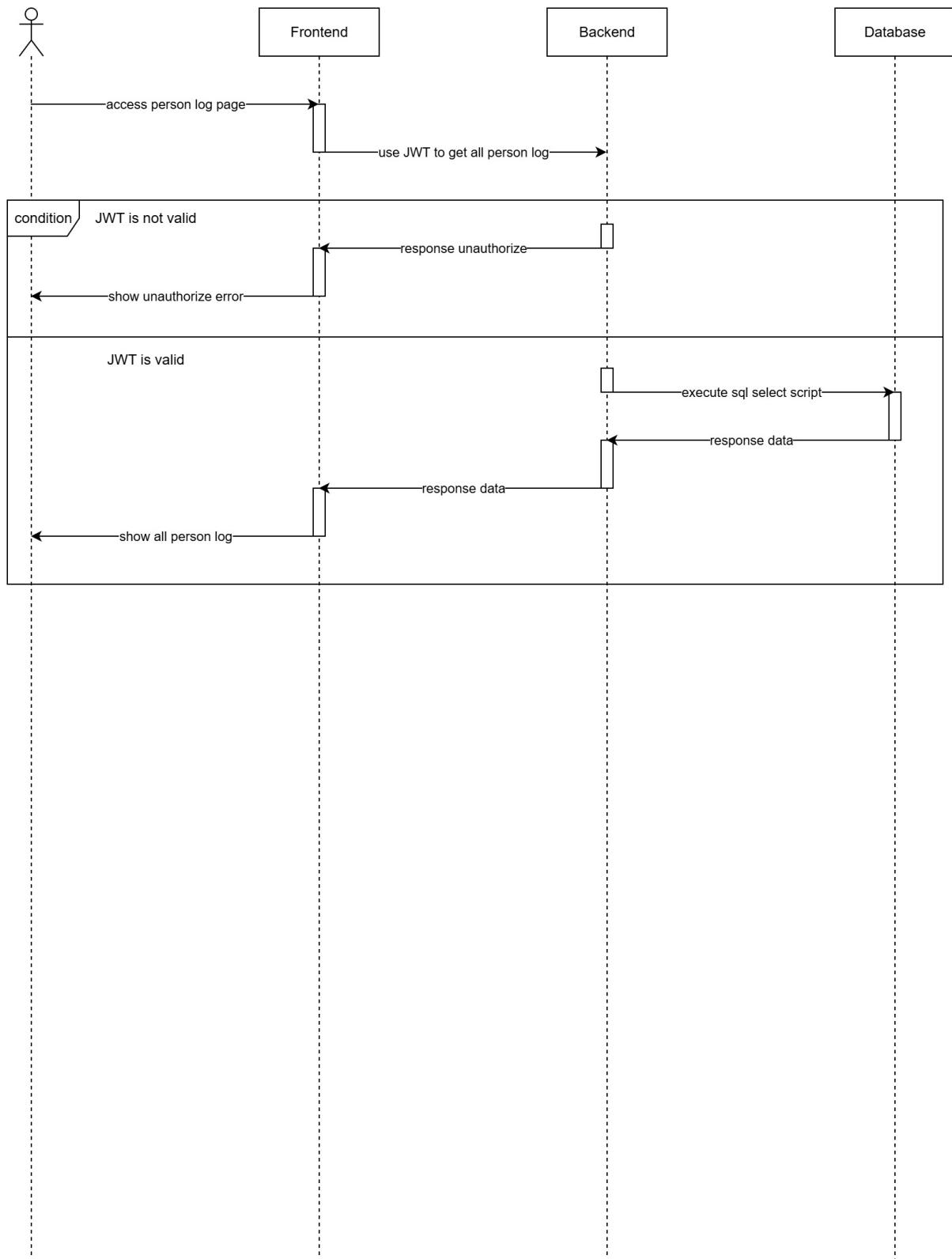
sequence_system_admin-3 update user



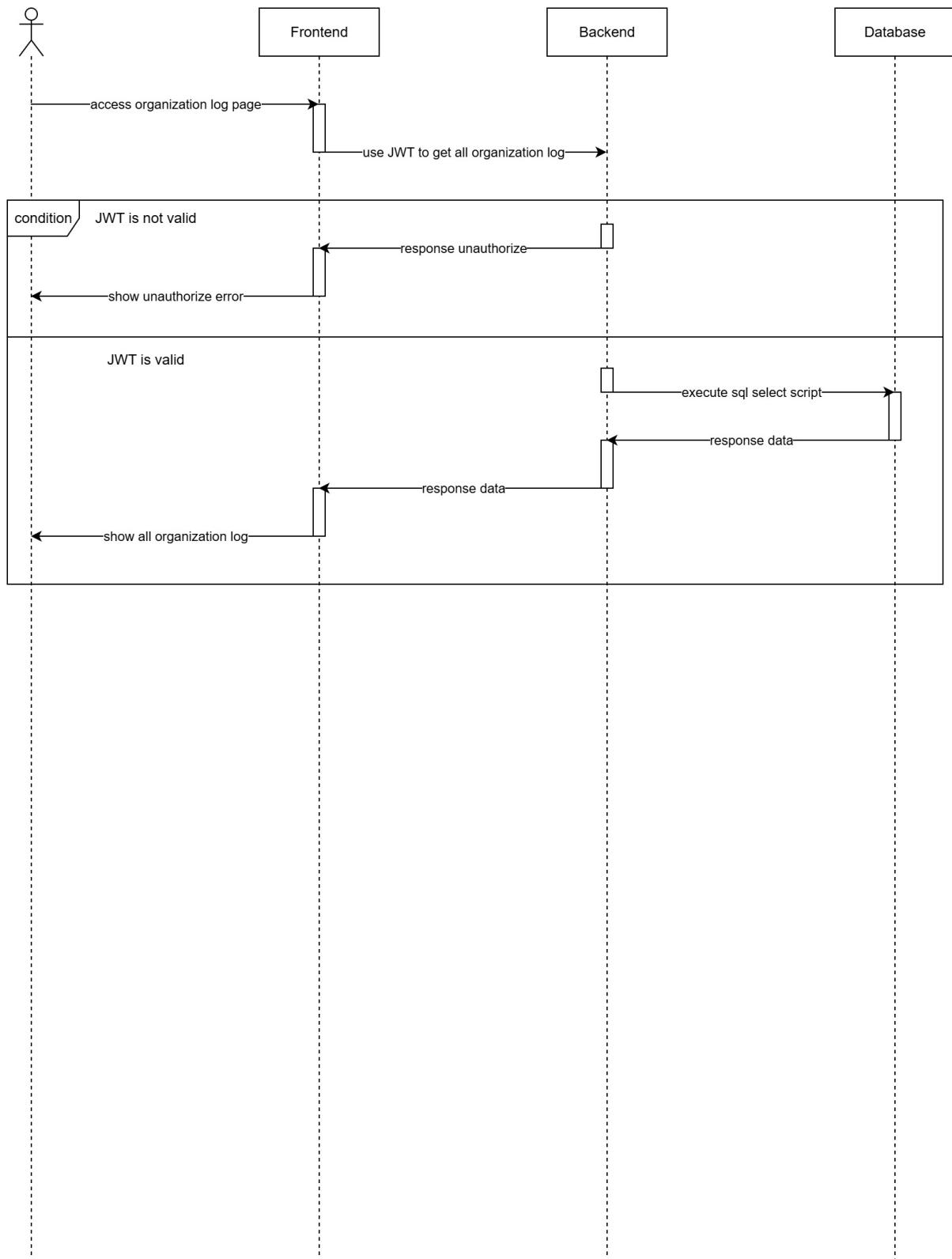
sequence_system_admin-4 delete user



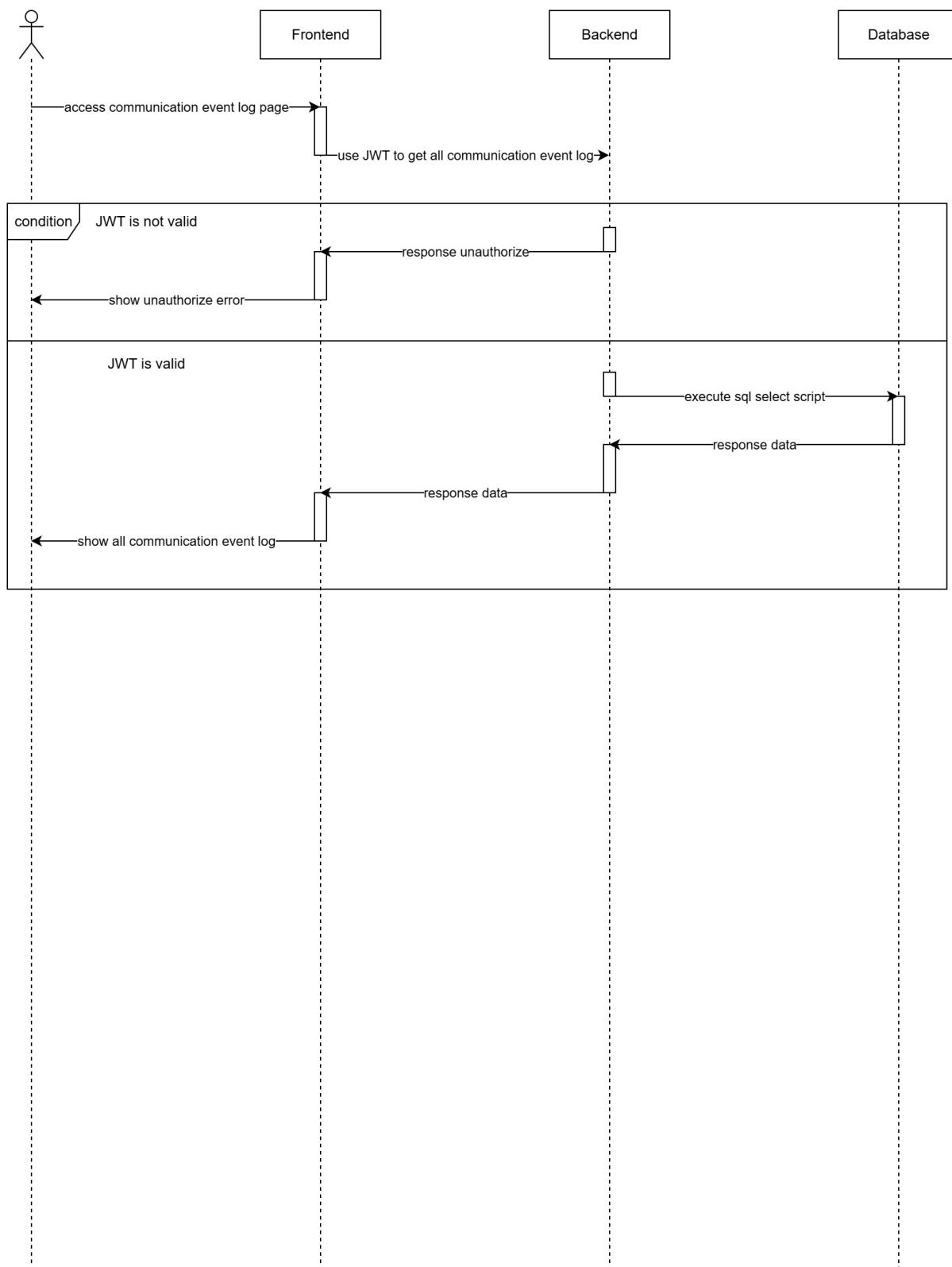
sequence_system_admin-5 read user log



sequence_system_admin-6 read person log

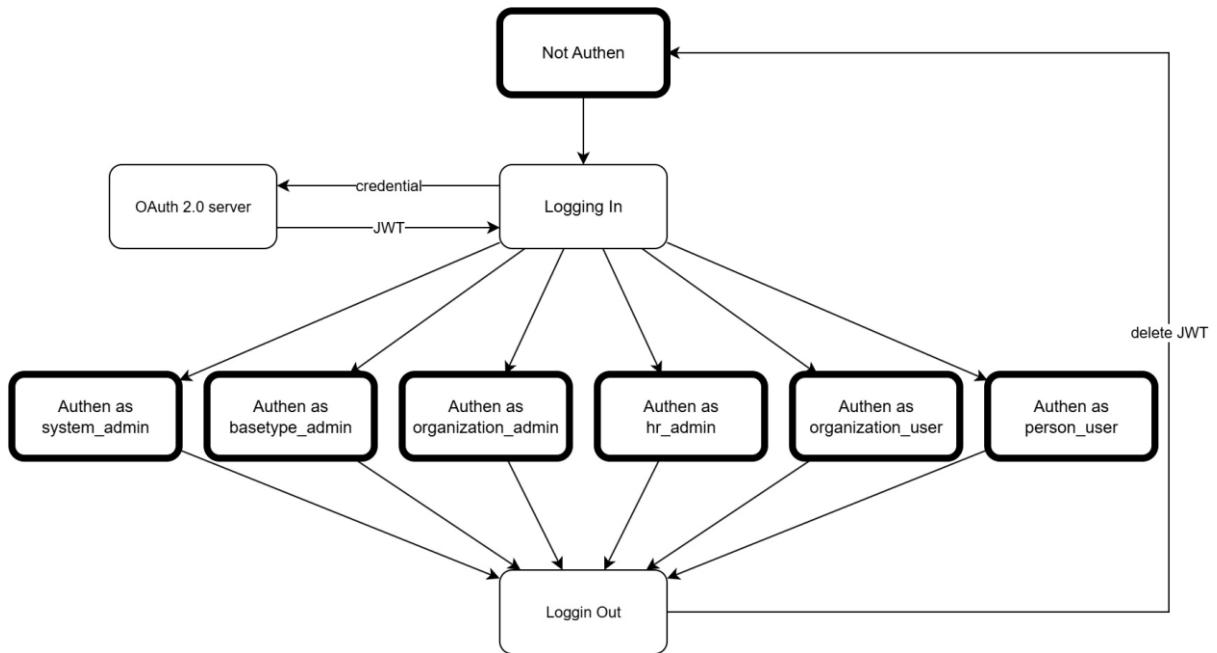


sequence_system_admin-7 read organization log

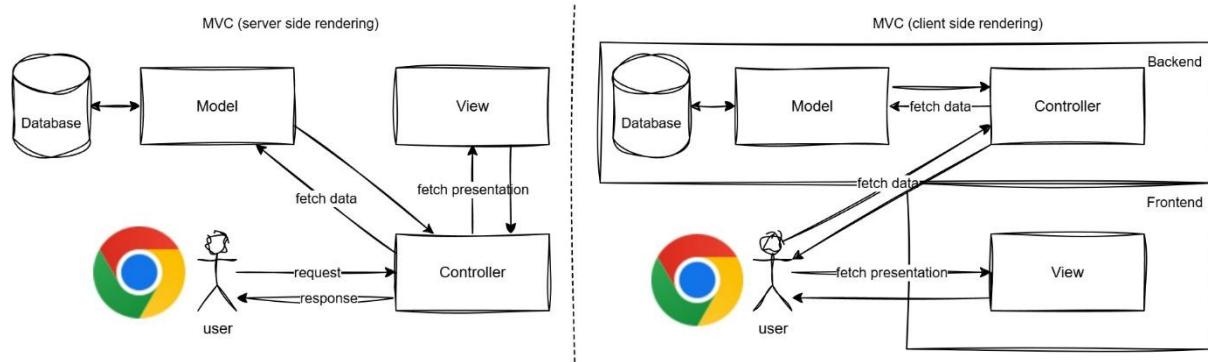


sequence_system_admin-8 read communication event log

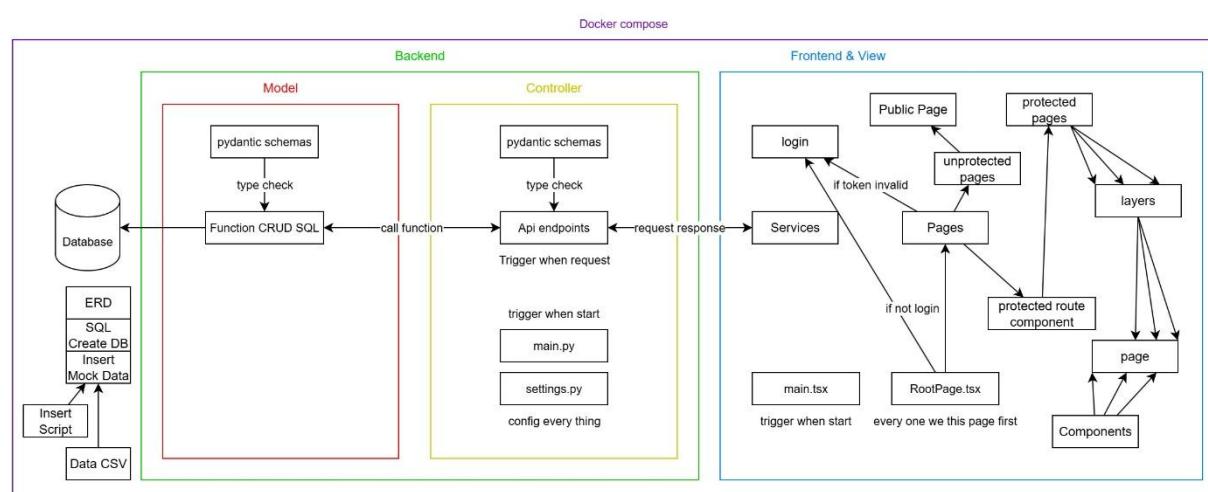
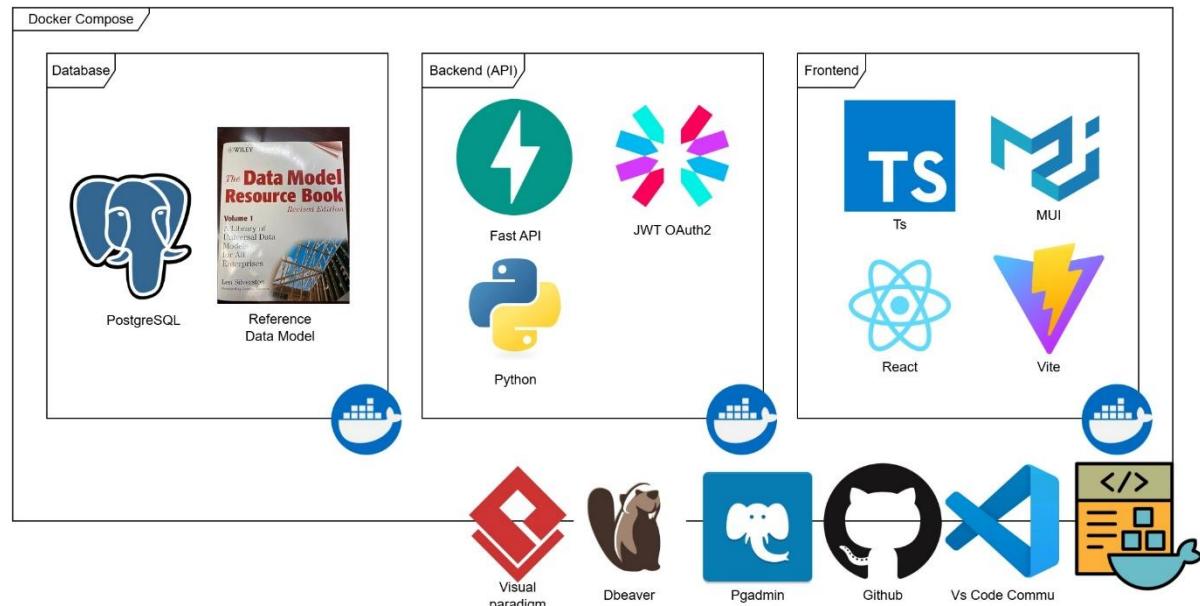
State Machine Diagram



Tech Stack



In this Application we use MVC (client-side rendering).



Use Case Diagram

