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Romain GAS

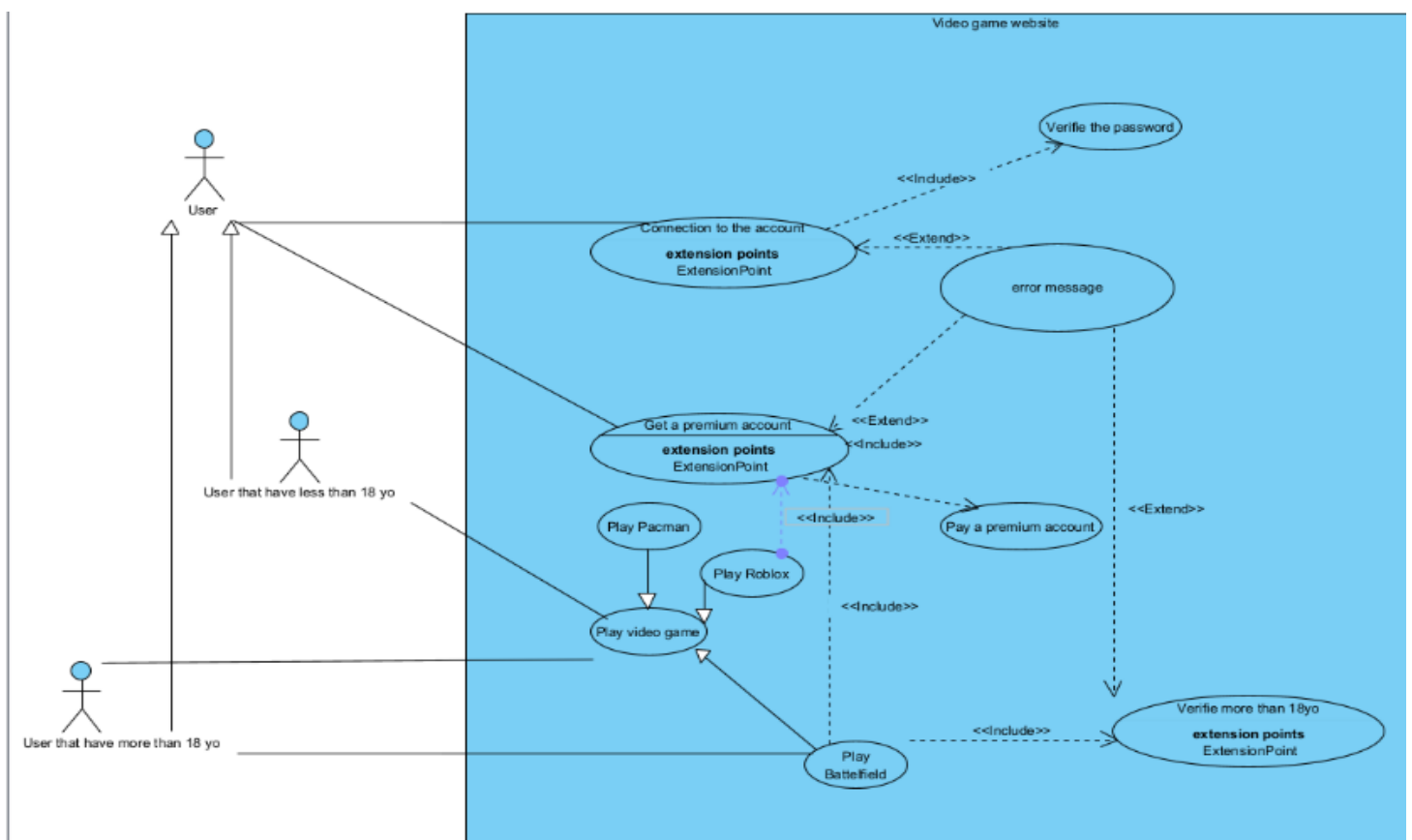Noé ROUX

UML Project

Topic: Web&Game

The project Web&game is a website that will offer users the opportunity to play video games. Users will be able to create an account and can pay to have a premium account. Every user will be able to play Pacman. However, by taking a premium account, you will be able to have access to Roblox and Battlefield (Battlefield is only for 18 years old and plus). In addition, users will be able to send requests to moderators. Those requests will either be related to video games or related to "personal questions". Moderators will therefore have a conversation with users. In addition, there will be an administrator of the website, he will be able to connect to an administrator account to add a new video game to the list of available games. The administrator can put the game either in the category of games for everyone or in the category of games for over 18 years old. In addition, he can also manage users' subscription.

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The Use Case diagrams.

Use Case diagram 1 (Romain GAS)

The user playing game.

In this diagram we find all function an user has access. He can create an account, take a premium one (In addition, we note that there is a verification of the validity of the password), he can also play games and there are restrictions for certain games. Everyone can play Pacman. Only those with a premium account can play Roblox and only those with a premium account and over 18 years old can play Battlefield.
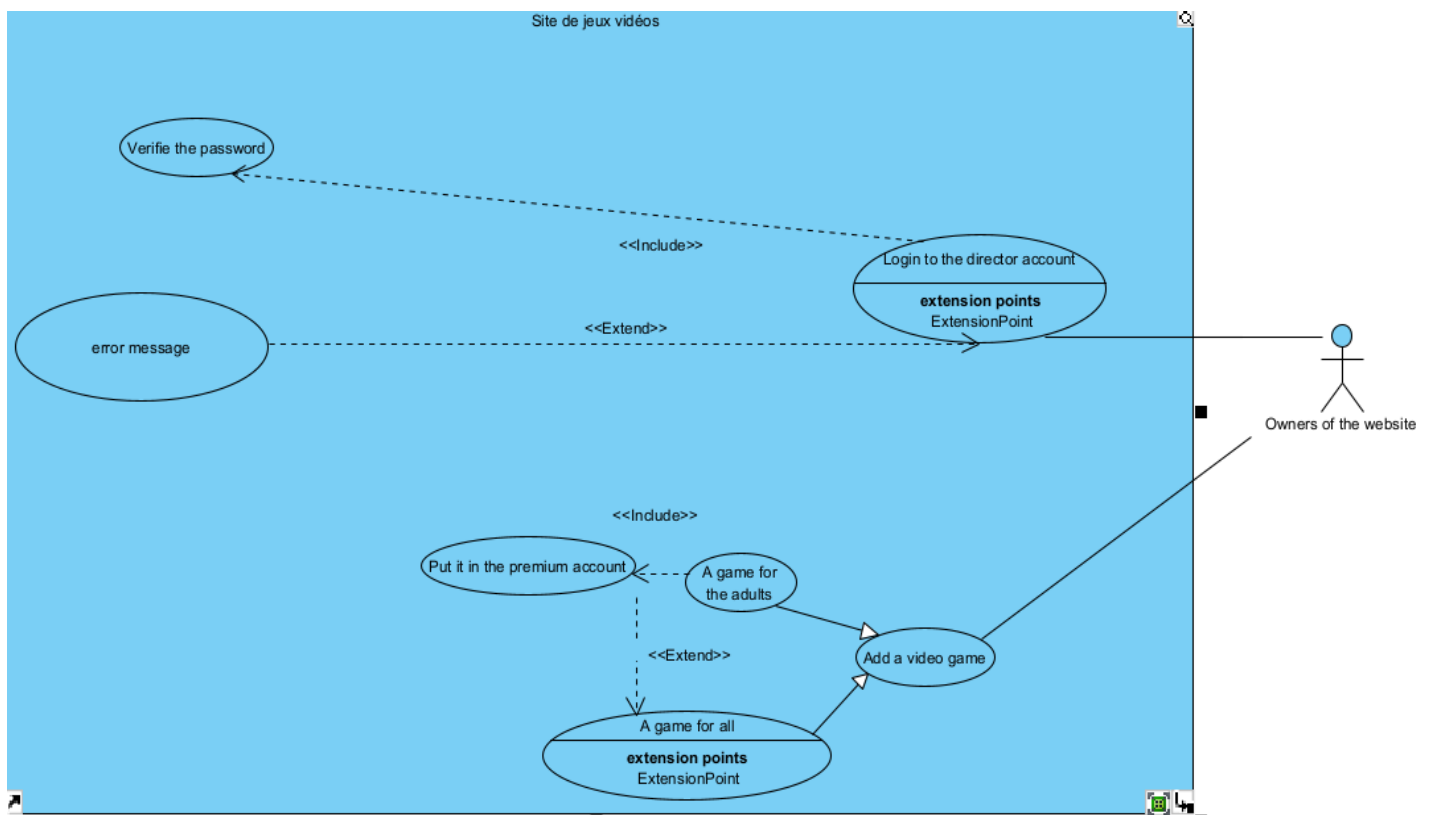
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Use Case diagram 2 (Florian POSCENTE)

The administrator adding a game.

In this diagram we can see that the site administrator can log into his account. In addition, we note that there is a verification of the validity of the password. He can also add a video game to the site. He can choose if this game is for everyone, or for the premium subscription. However, if he puts it in the premium subscription then he can request that it is only for people over 18 years old.

Site de jeux vidéos

Verifie the password

<<Include>>

Login to the director account

extension points
ExtensionPoint

error message

<<Extend>>

Owners of the website

<<Include>>

Put it in the premium account

A game for the adults

Add a video game

<<Extend>>

A game for all

extension points
ExtensionPoint

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Use Case diagram 3 (Noé ROUX)

The request management.

In this diagram we can see how requests work on the site. First of all, each user can send a request to the moderators. This request will be analysed to find out if it is a game request or a "personal" request. A conversation with a moderator will therefore be created subsequently. For his part, the moderator can log into the user account. In addition, we note that there is a verification of the validity of the password. He can also respond to a user's request knowing that there are 2 types of requests.
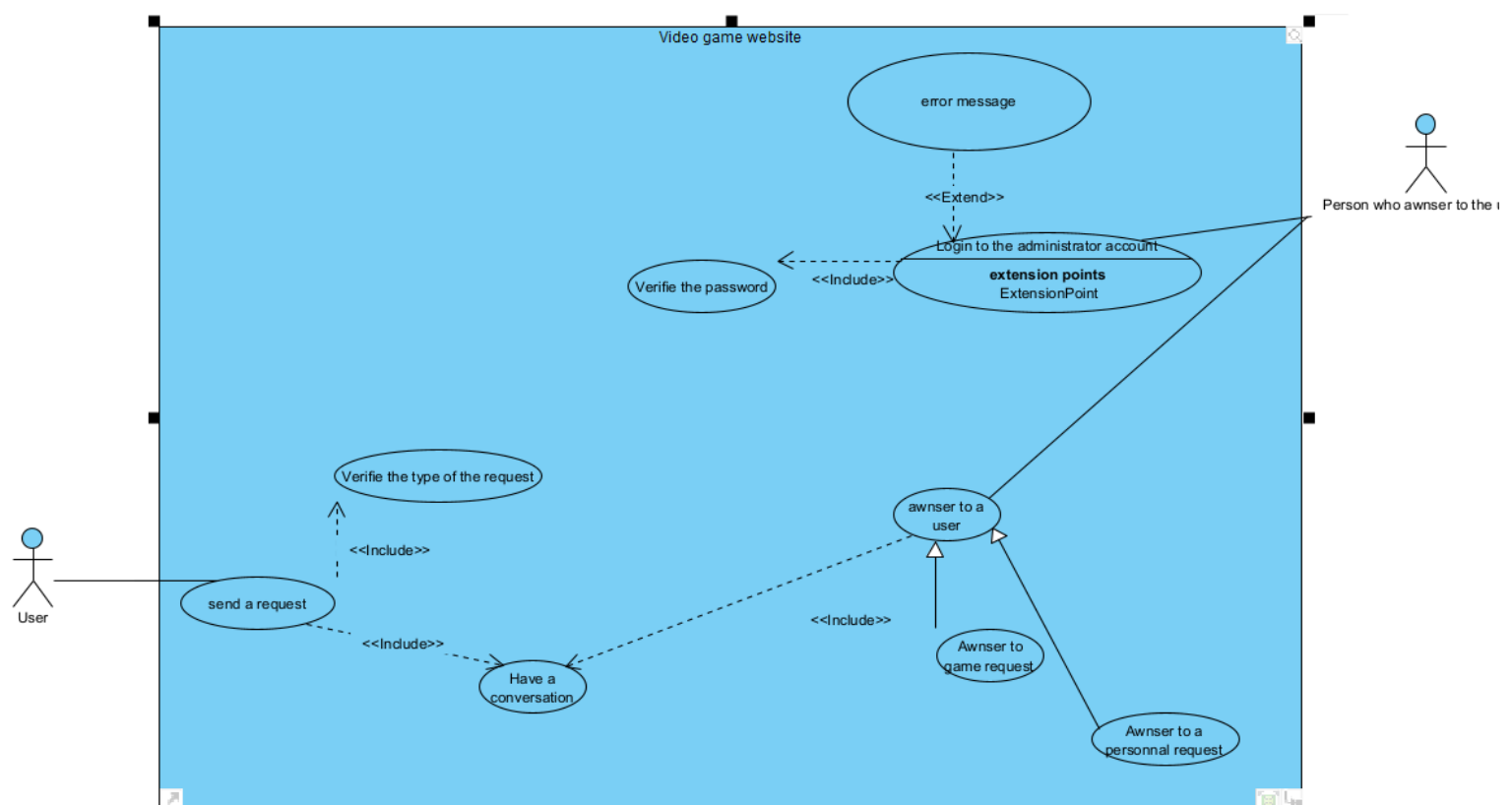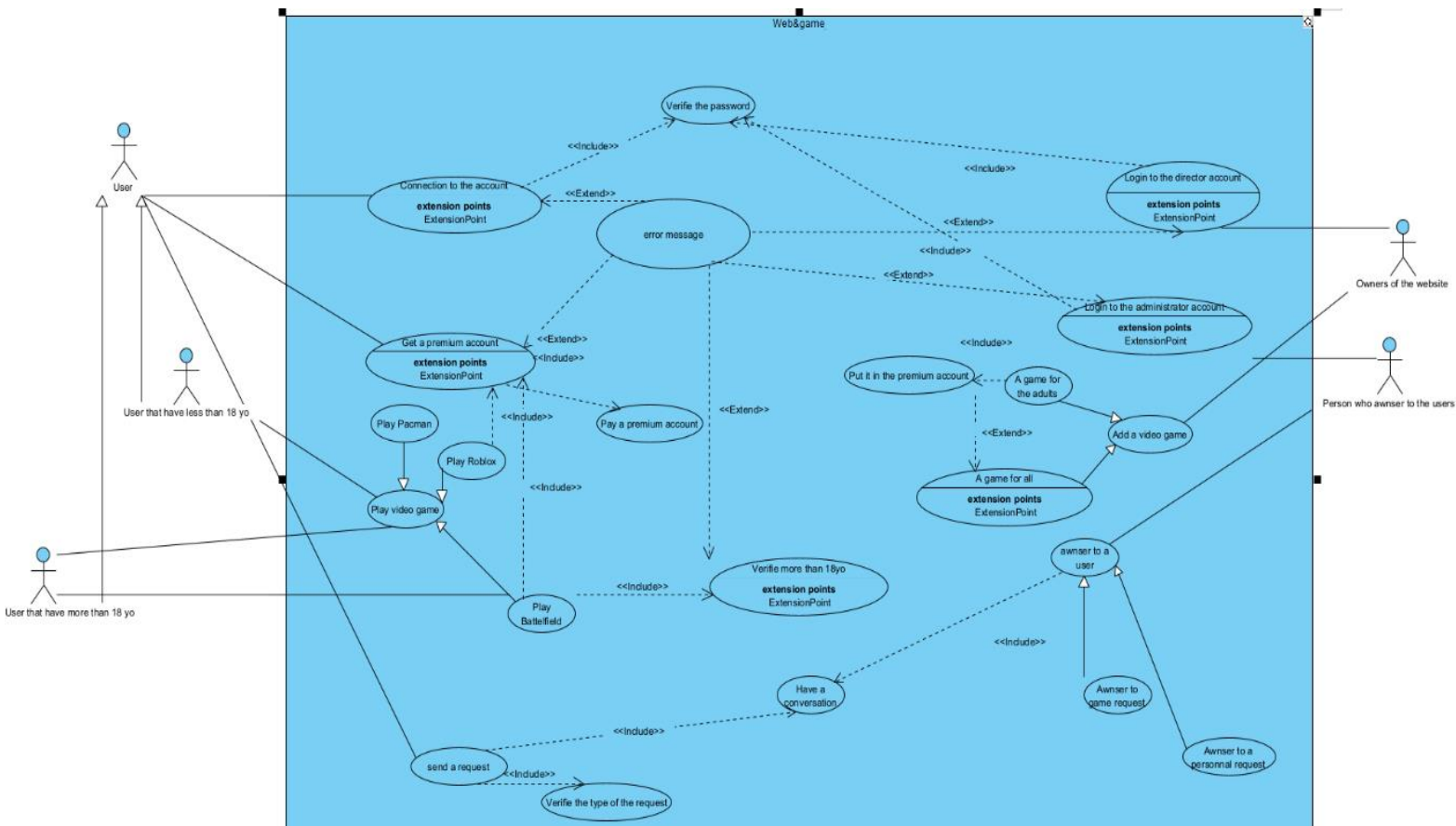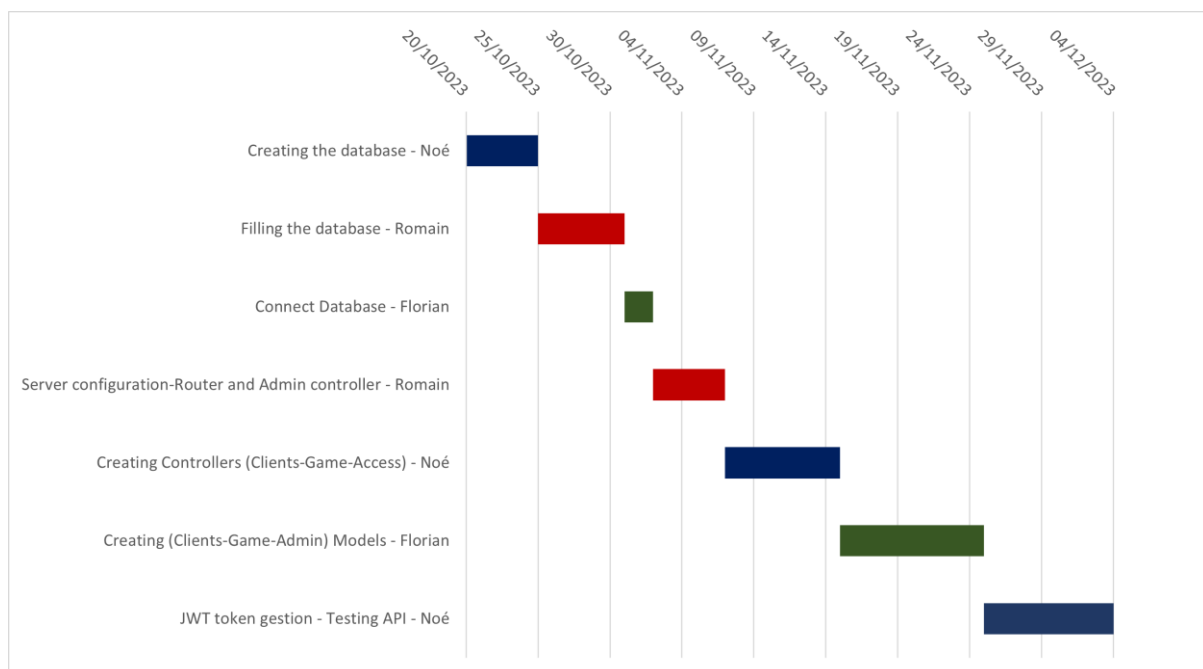
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Use Case diagram 4: The entire diagram.
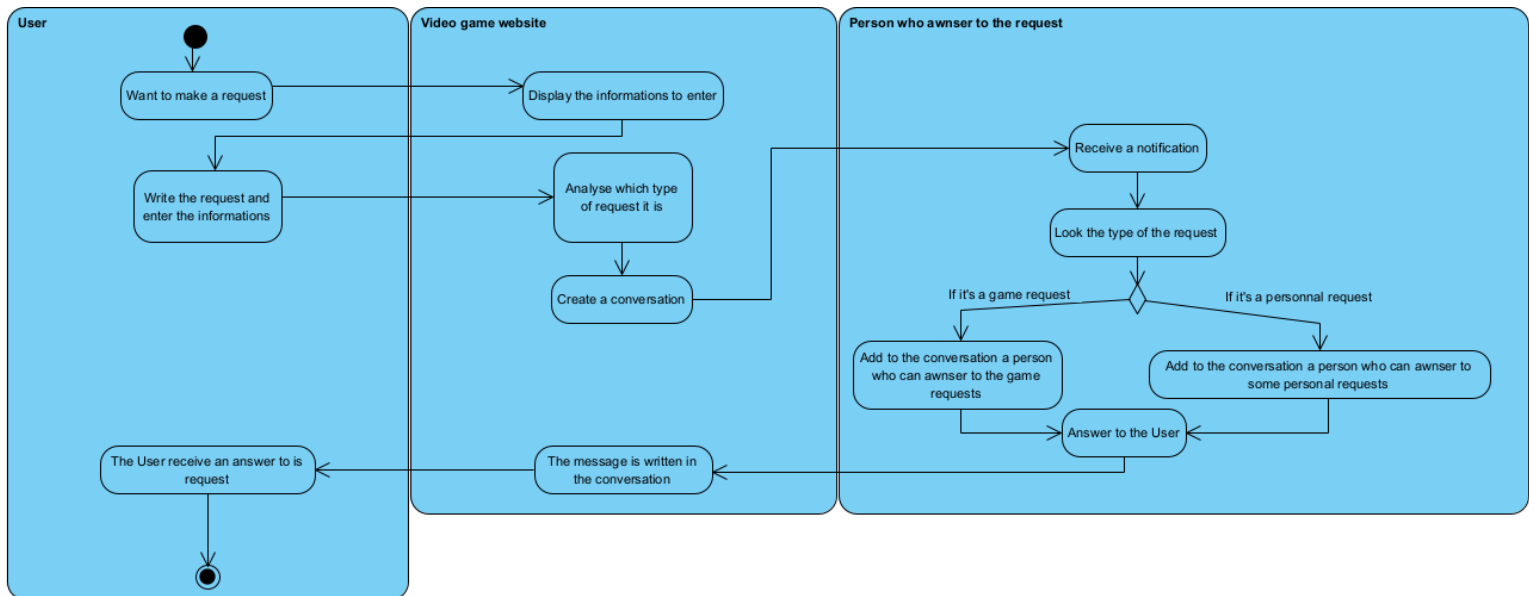

The Gantt diagram.

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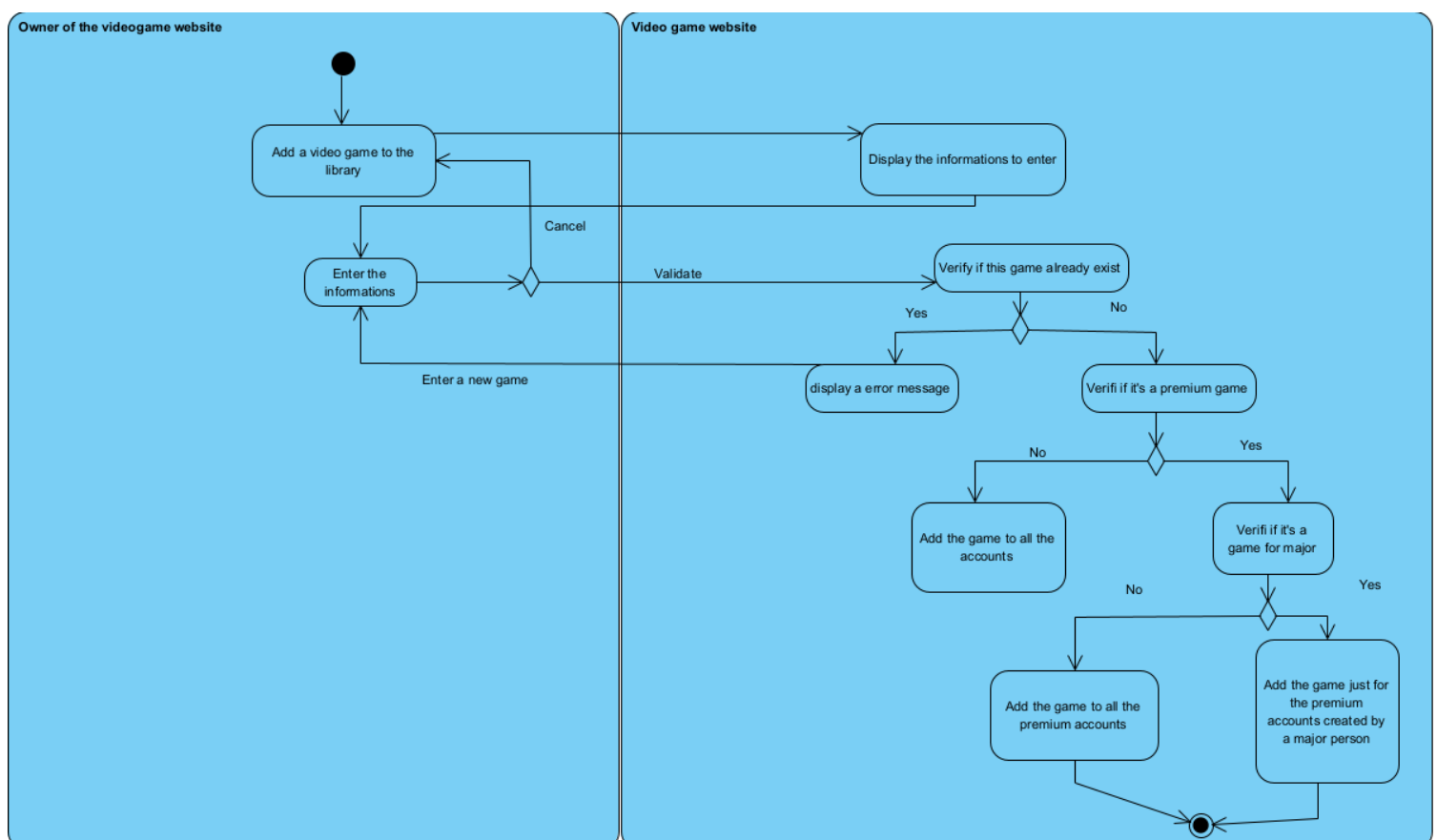# The Activity diagrams.

Activity diagram Noé ROUX.

User

- Want to make a request
- Write the request and enter the informations
- The User receive an answer to is request

Video game website

- Display the informations to enter
- Analyse which type of request it is
- Create a conversation
- The message is written in the conversation

Person who awnser to the request

- Receive a notification
- Look the type of the request
- If it's a game request → Add to the conversation a person who can awnser to the game requests
- If it's a personnal request → Add to the conversation a person who can awnser to some personal requests
- Answer to the User

Activity diagram Florian POSCENTE.

Owner of the videogame website

- Add a video game to the library
- Enter the informations

Video game website

- Display the informations to enter
- Verify if this game already exist
  - Yes → display a error message
  - No → Verifi if it's a premium game
    - No → Add the game to all the accounts
    - Yes → Verifi if it's a game for major
      - No → Add the game to all the premium accounts
      - Yes → Add the game just for the premium accounts created by a major person

Cancel
Validate
Enter a new game

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Activity diagram Romain GAS.

User

The video game website

Get a premium account

Show the informations to fill out

Enter a Id and a pasword

Check the information

Display a error message — This id already exists

enter other information

The account is create

Show amount

Choose payment method

Show field to fill

Cancel

enter the informations — validate

inform payment accept

Verify if the client is major

Allow access to all the premium games — yes — No — Allow access to the premium games for minor
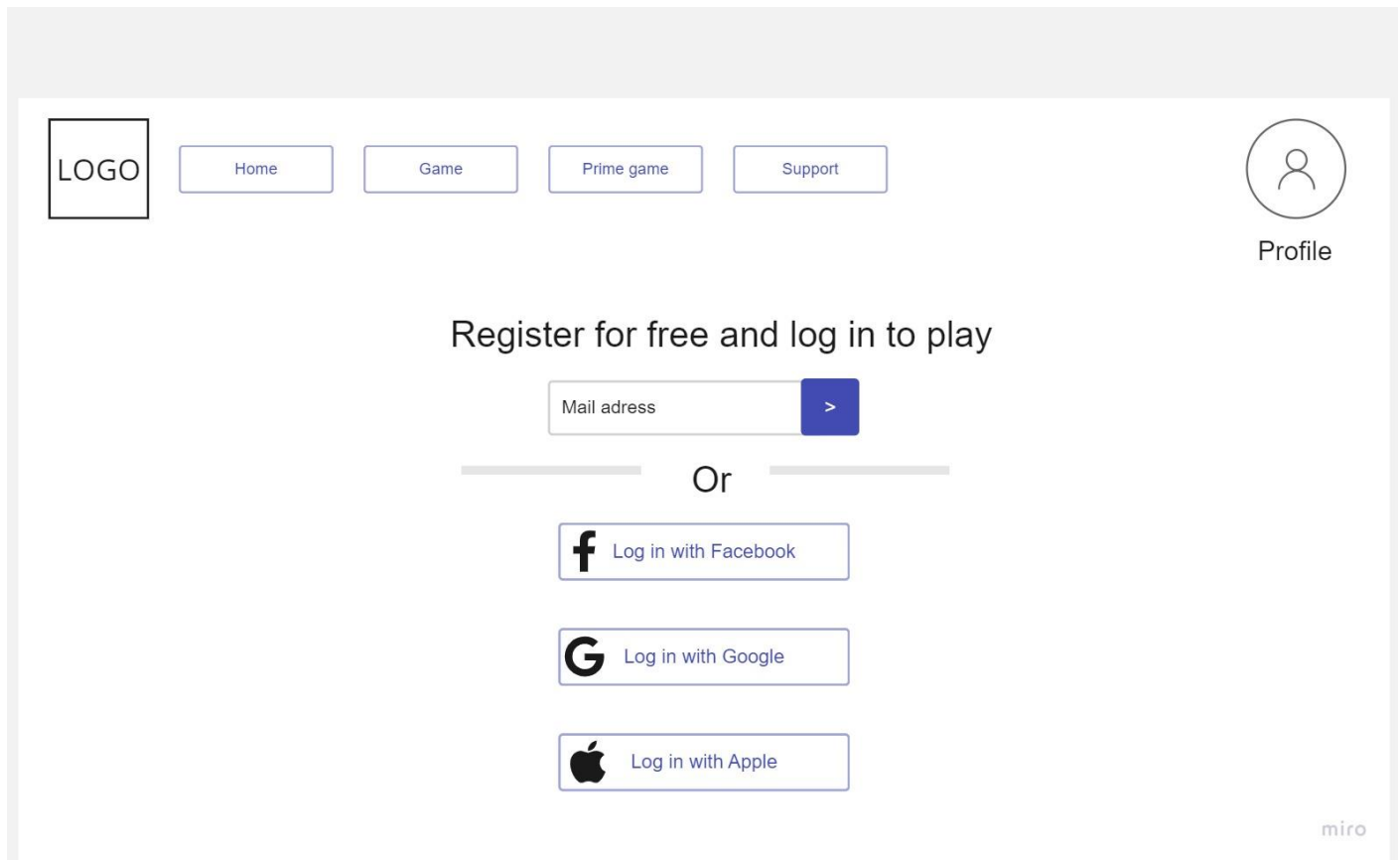
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Some Wireframes about our Web Site.

Wireframe of Noé ROUX: The home page.

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Noé ROUX

Wireframe of Florian POSCENTE: The Registration page.

LOGO

| Home | Game | Prime game | Support |

Profile

Registration

Create a Password

****

8 characters   ?
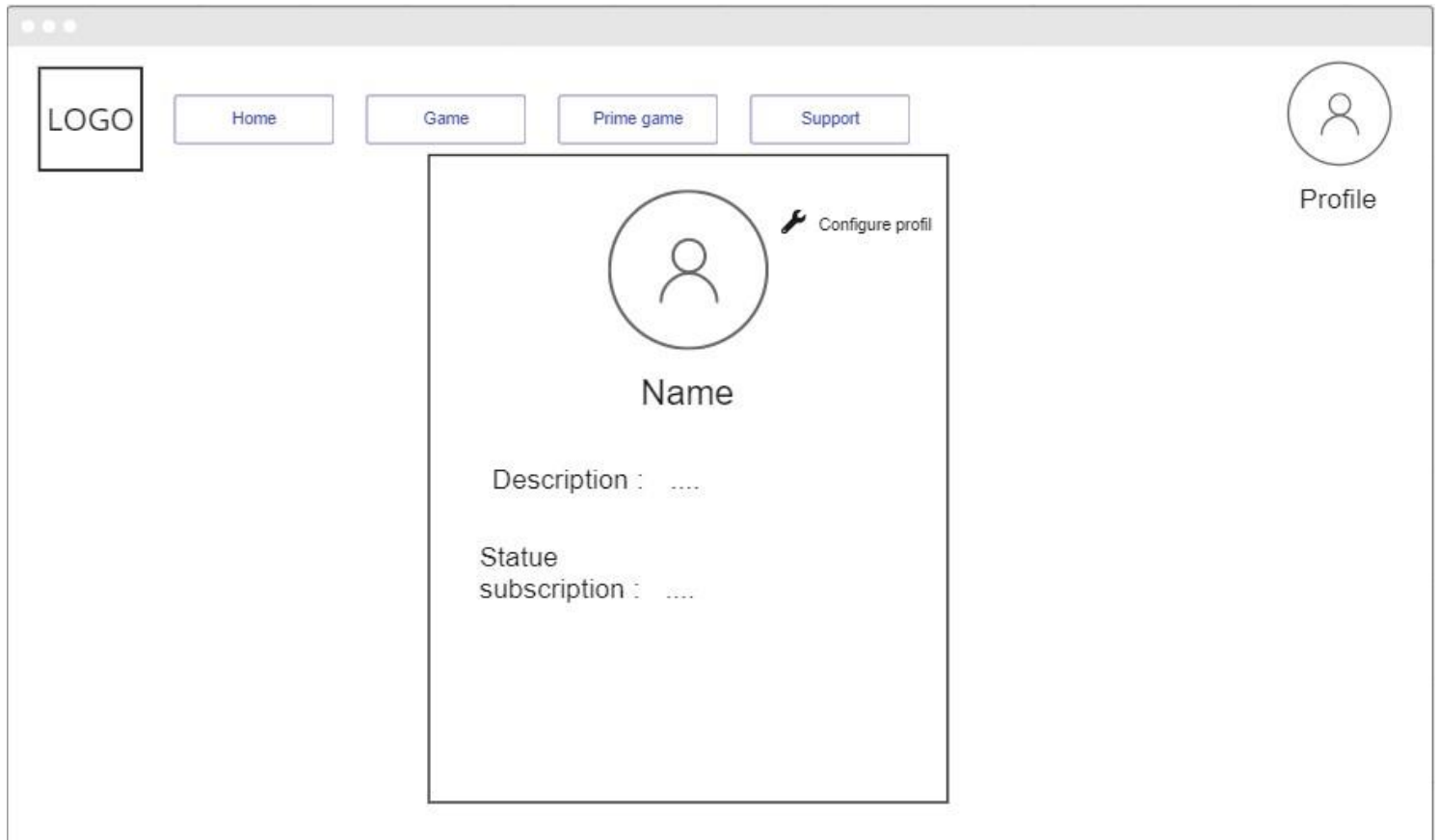
Continue

miro

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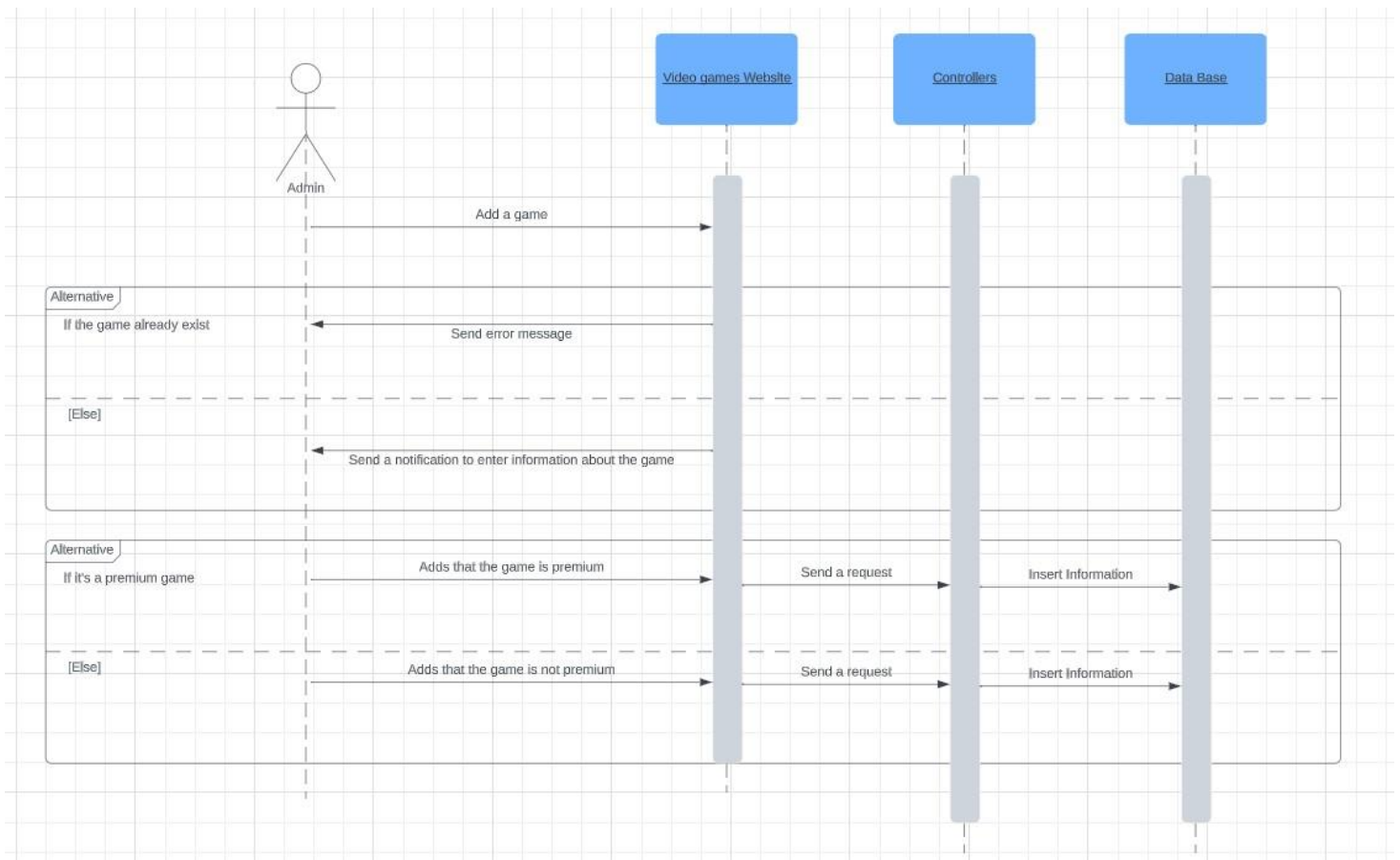
Wireframe of Romain GAS: The profile page.

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Romain GAS

Noé ROUX

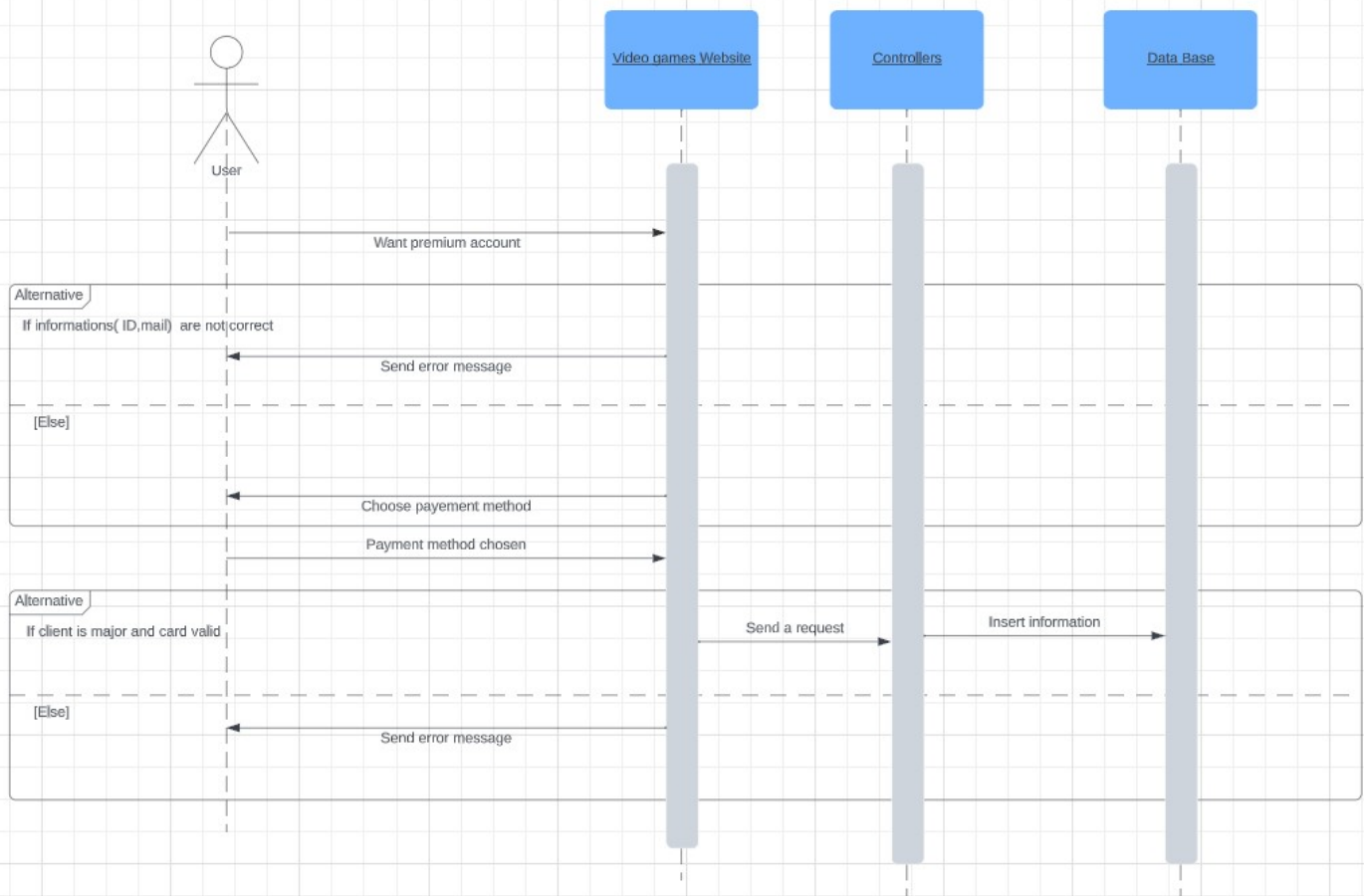# The Sequence diagrams.

Sequence diagram Noé ROUX.

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Noé ROUX

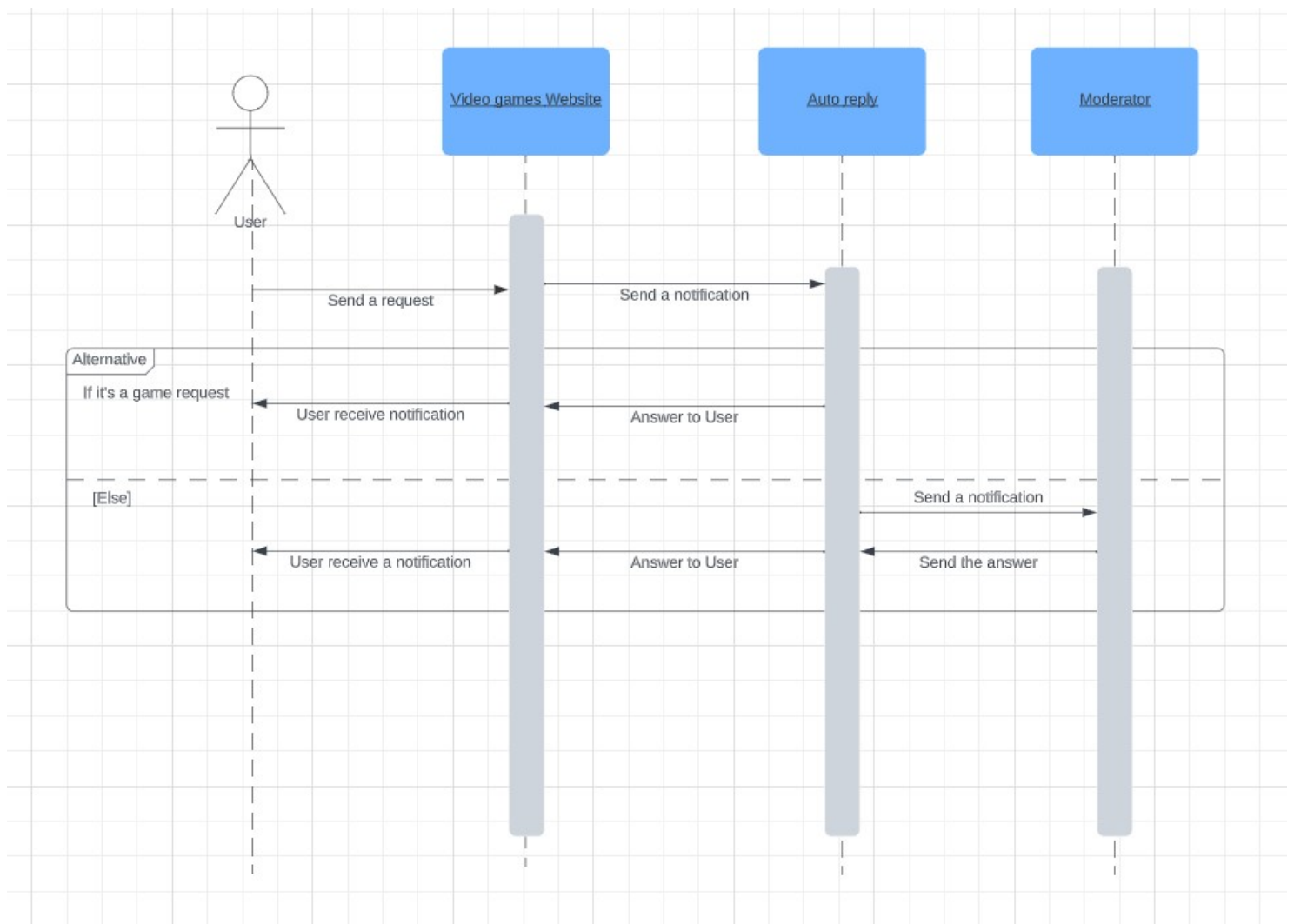Sequence diagram Florian POSCENTE.

Florian POSCENTE

Romain GAS
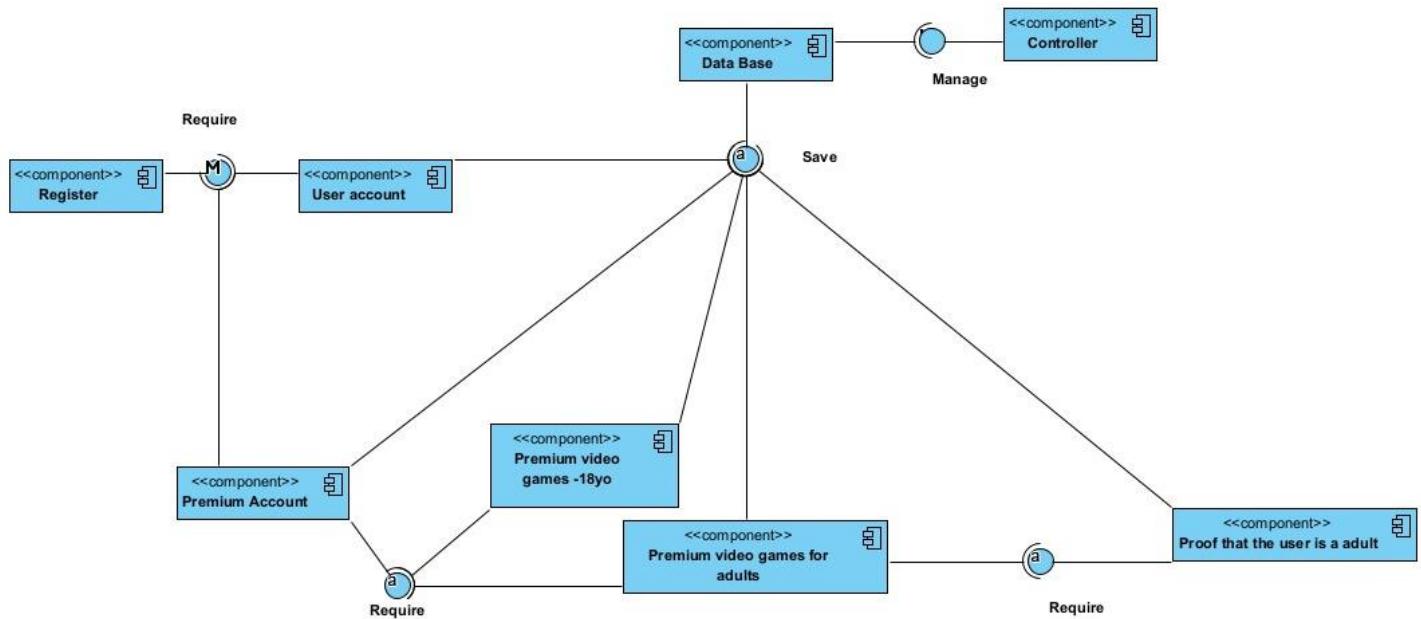
Noé ROUX

Sequence diagram Romain GAS.
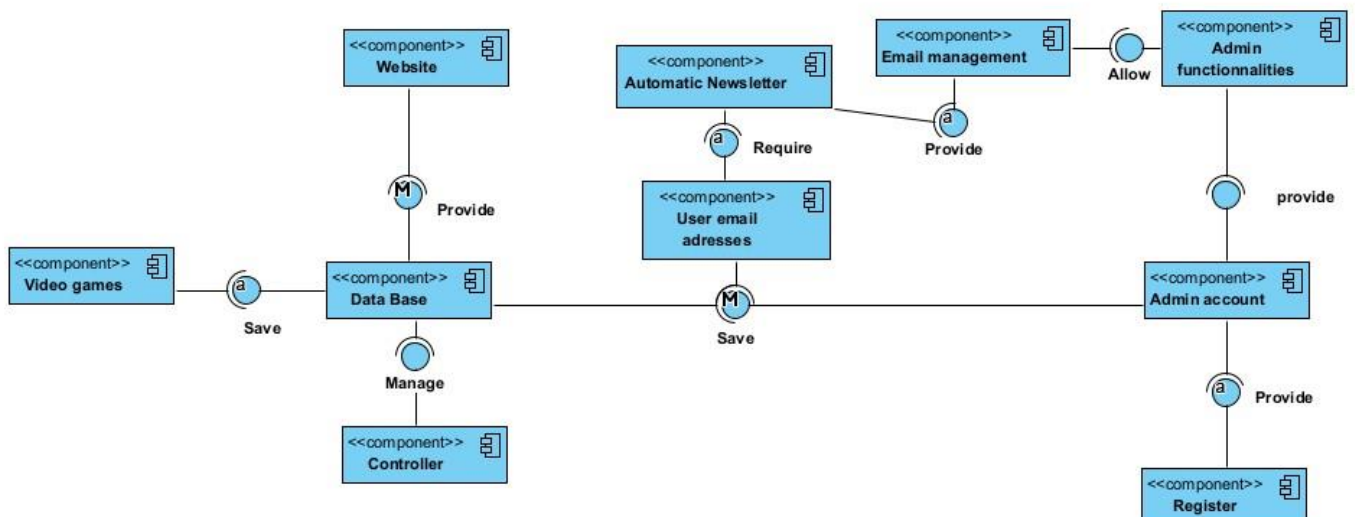
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The Component diagrams.

Component diagram Noé ROUX.

Component diagram Florian POSCENTE.

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Romain GAS

Noé ROUX

Component diagram Romain GAS.
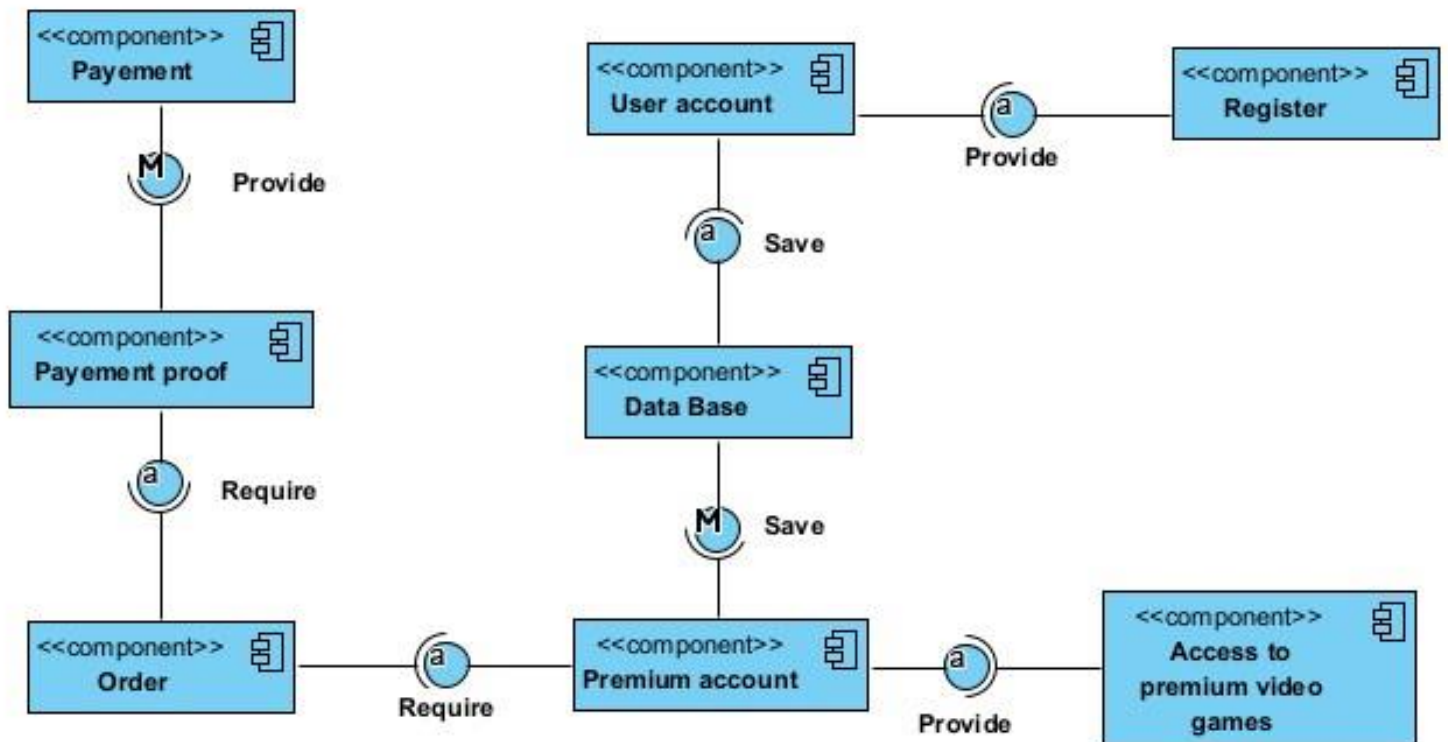
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The Class diagram.

PremiumAccount
-UserName : String
-ValidityDate : String
+GetAPremium(n Name, p PaymentProof)
+RemovePremium(n Name)
+Private()

WebSiteOwner
-name : Name
-surname : Surname

Game
-Name : String
-Type : String
-AgeRequired : int
+Addgame(n : Name, t : Type, ar : AgeRequired)
+Removegame(e : explication)
+Private()

Website

Order
-Date : DateTime
-Number : String
+Confirm(p : ProofOfPayment)
+Cancel(j : Justification)
+Protected()

Payment
-Amount : int
-Id : int
-Title : String
+GetAProof(v : Validation, i : Id)
+Cancel()
+Private()

UserQuestion
-Type : String
-Id : int
+answerTo(i : Id, t Type)
+MakeARequest(t, Type)

Admin
-name : Name
-surname : Surname

User
-name : Name
-surname : Surname

UserAccount
-Name : String
-Surname : String
-Username : String
-DateOfBirth : DateTime
-Gender : String
+CreateAccount(n : Name, s : Surname, u : Username, d : DateOfBirth, g Gender)
+RemoveAccount(u : Username, j : Justification)
+Private()

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The Final Gantt diagram.

	Starting Date	Duration	End Date
Creating the database - Noé	20/10/2023	2	22/10/2023
Filling the database - Romain	22/10/2023	4	26/10/2023
Connect Database - Florian	26/10/2023	4	30/10/2023
Server configuration-Router - Roma	30/10/2023	6	05/11/2023
Creating Controllers (Clients-Game-Acces	05/11/2023	7	12/11/2023
Creating (Clients-Game-Admin) Models -	12/11/2023	8	20/11/2023
JWT token gestion - Testing API - Nc	20/11/2023	10	30/11/2023
Admin controller - Florian	30/11/2023	4	04/12/2023