



Project 1 Phase 2: Digital game distributor

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Table of Contents

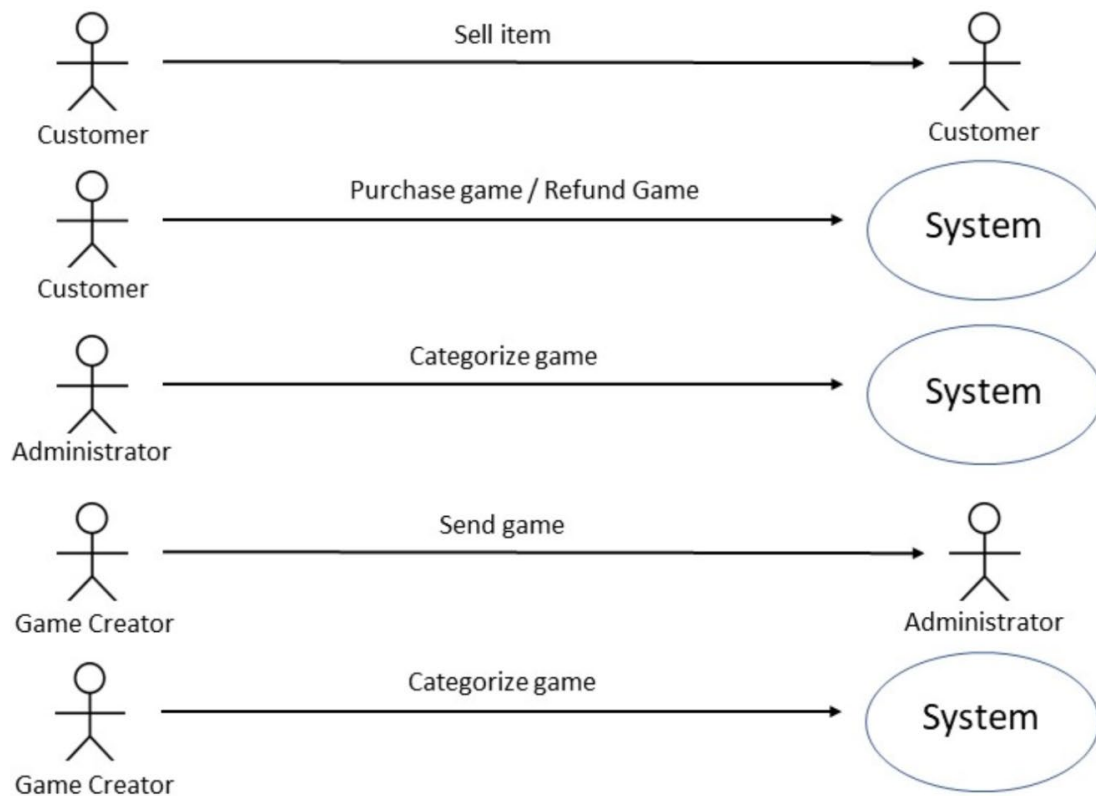
Revision of the deliverables presented in the 1st phase and the list of changes with an explanation.....	1
High-level use case diagram	1
Revision Log of High-level use case diagram.....	1
Use case diagram	2
Revision Log of Use case diagram	2
Data Flow level. 0	3
Revision Log of Data Flow diagram level 0.....	4
Functional Decomposition Diagram.....	6
Data Flow Diagram Level 1 and 2 of all processes	7
Data Flow Diagram level 1	7
Data Flow Diagram level 2	8
Purchasing process.....	8
Send license game process	9
Refund process.....	10
Categorize Process.....	11
Register Process.....	12
Mock-up prototype	13
Design Prototype	13
Test Cases	15
Test Login Process.....	15
Purchasing Process.....	16
Register Process.....	17

Functional Requirement Traceability Matrix.....	18
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Revision of the deliverables presented in the 1st phase and the list of changes with an explanation

High-level use case diagram

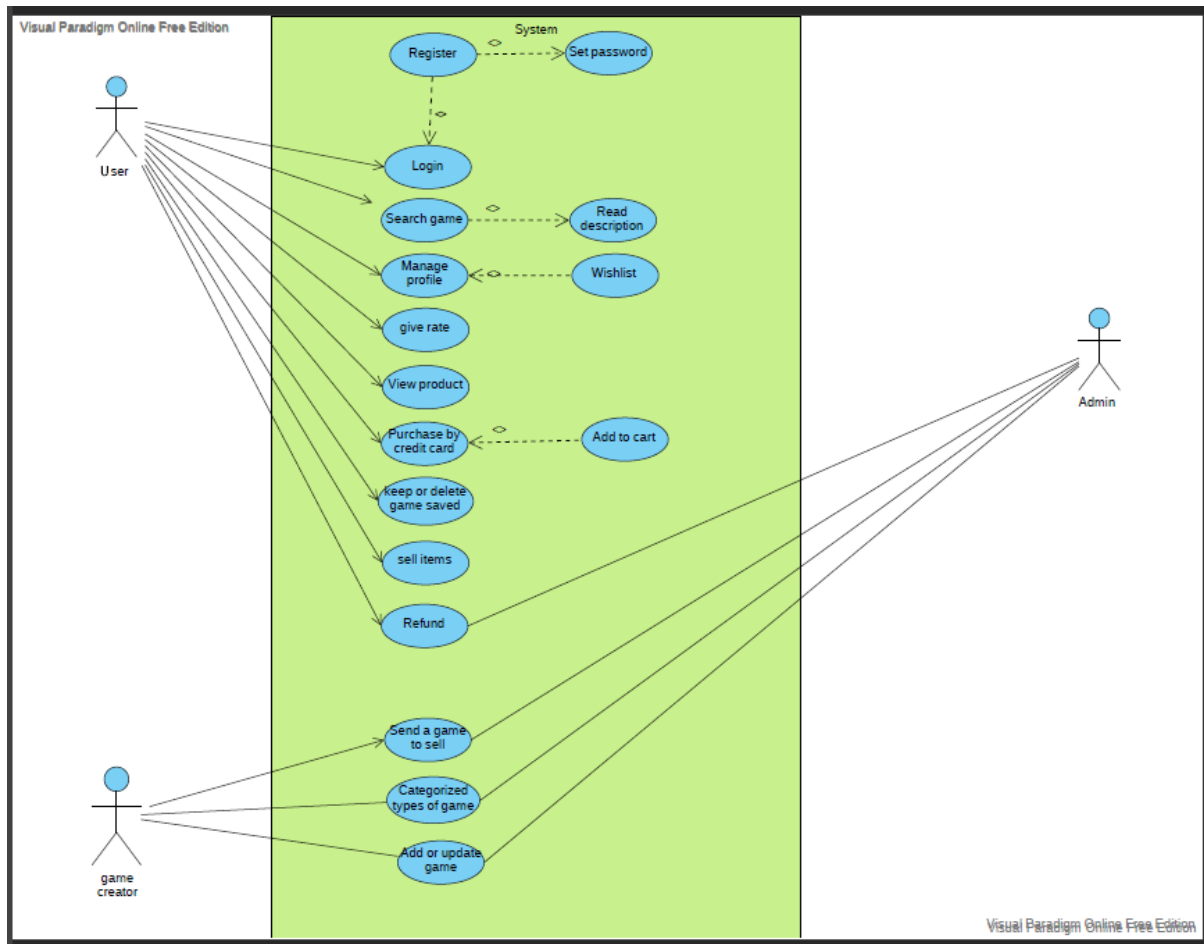
High-Level Use case diagram



Revision Log of High-level use case diagram

- We deleted this diagram out of our report because it is not partial to any other diagram in the field of software engineering.

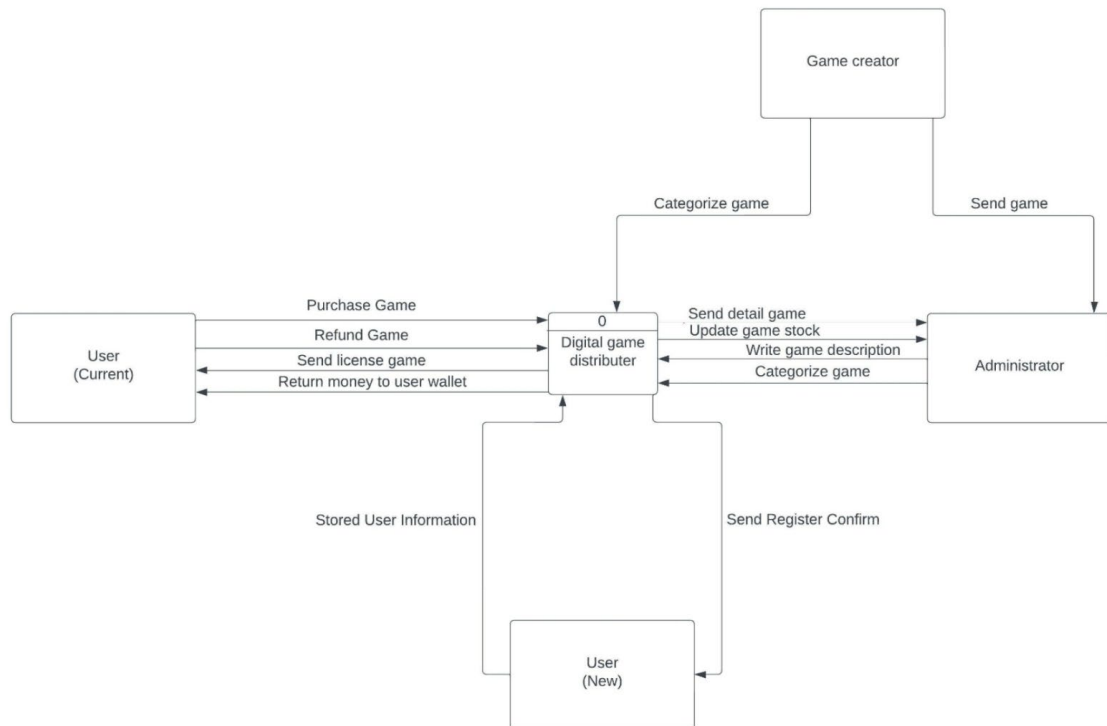
Use case diagram



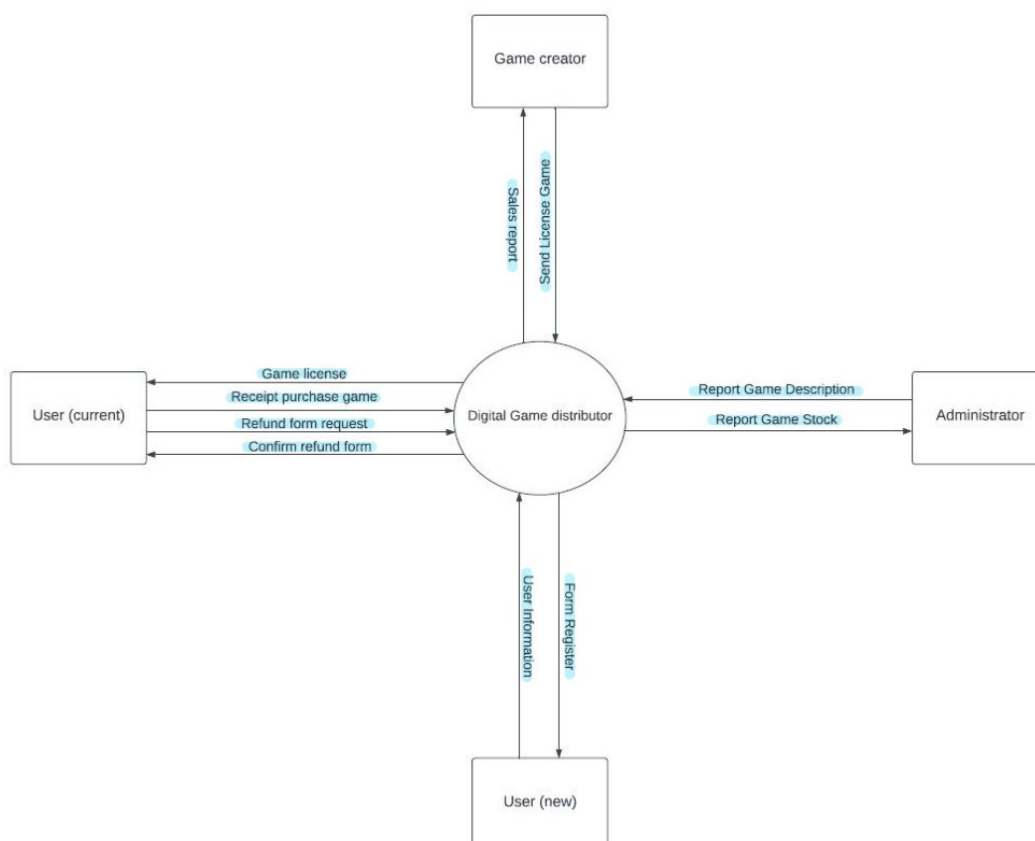
Revision Log of Use case diagram

- Change the actor's name from "Actor" to "User."

Data Flow level. 0



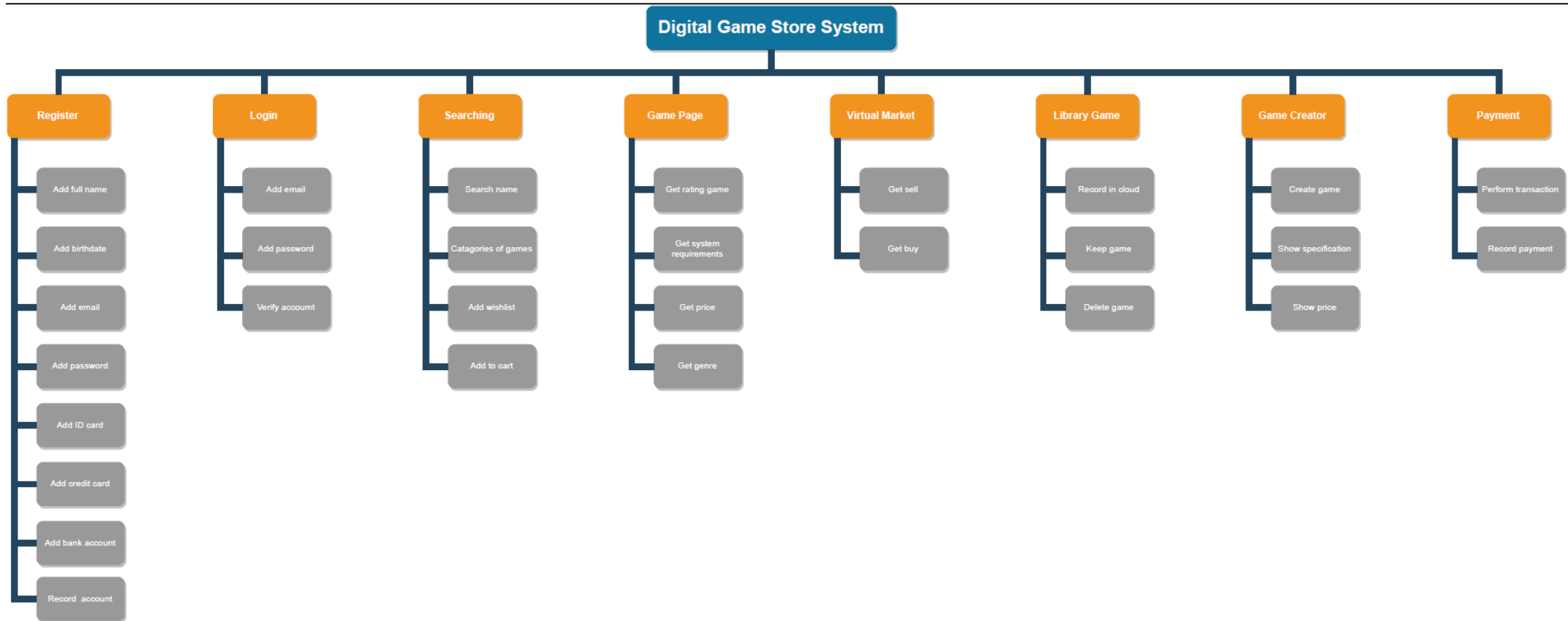
From this diagram, we must change a lot of things. First, the data flow needs to show a flow of data, so we decided to redesign our data flow level. 0 is depicted in the diagram below.



Revision Log of Data Flow diagram level 0

- The blue highlight shows a flow of data, and we edit a new word to be appropriate with a DFD level of 0.
 - Wording between User (Current) and Digital game distributor process
 - **Send license game to Game license**
 - **Purchase game to Receipt purchase game**
 - **Return money to user wallet to Confirm refund form**
 - **Refund Game to Refund form request**
 - Wording between User (New) and Digital game distributor process
 - **User information to Stored User Information**
 - **Form Register to Send Register Confirm**
 - Wording between Game Creator and Digital game distributor process
 - **Send Game to Send License Game**
 - **Categorize game to Sales report**
 - Wording between Administrator and Digital game distributor process
 - **Update game stock to Report game stock**
 - **Write game description to Report Game Description**
 - **Remove Categorize game**
 - **Remove Send detail game**
- We made the mistake of making entities have relationships with each other in the first diagram, so we redesign it to separate them.

Functional Decomposition Diagram



Data Flow Diagram Level 1 and 2 of all processes

Data Flow Diagram level 1

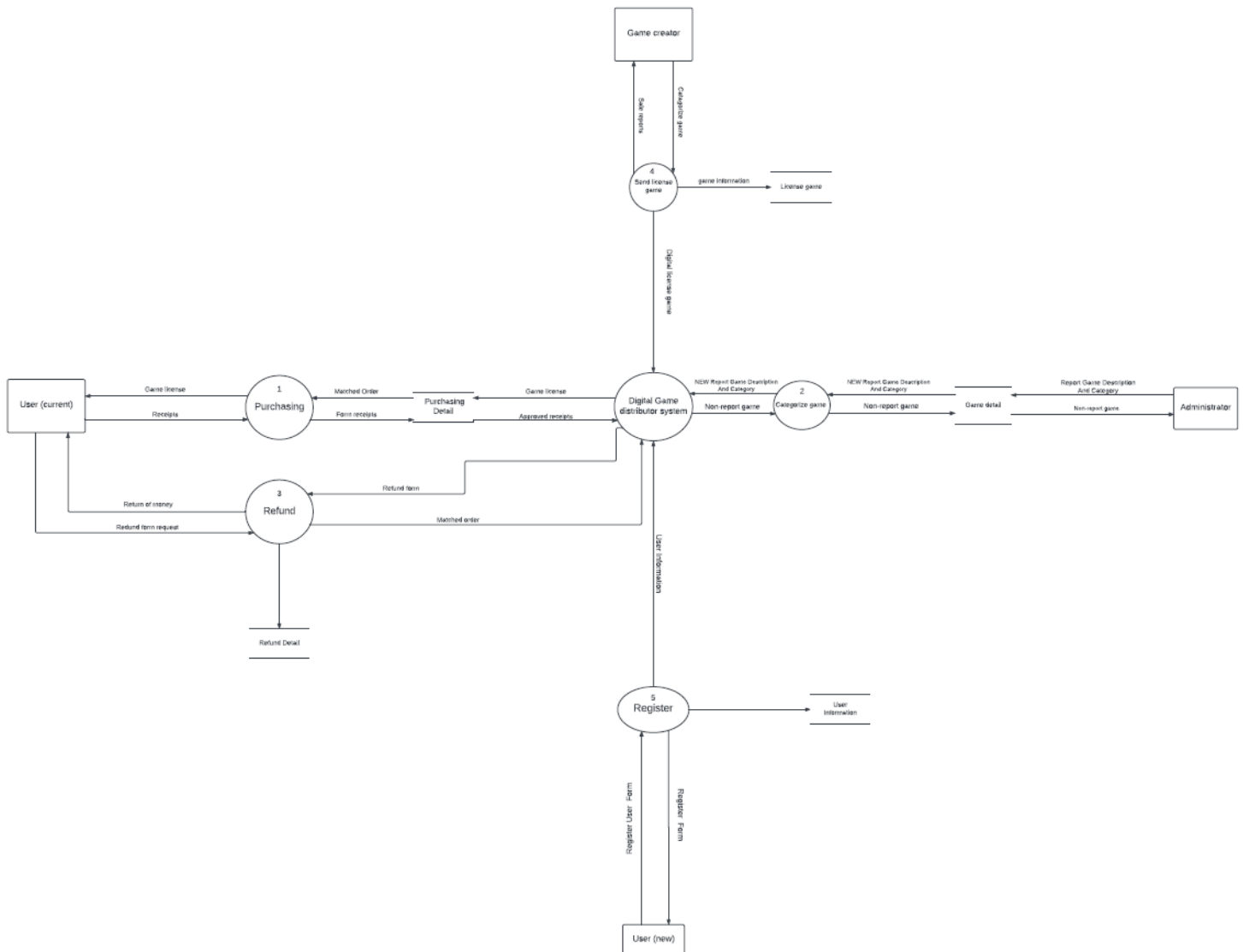
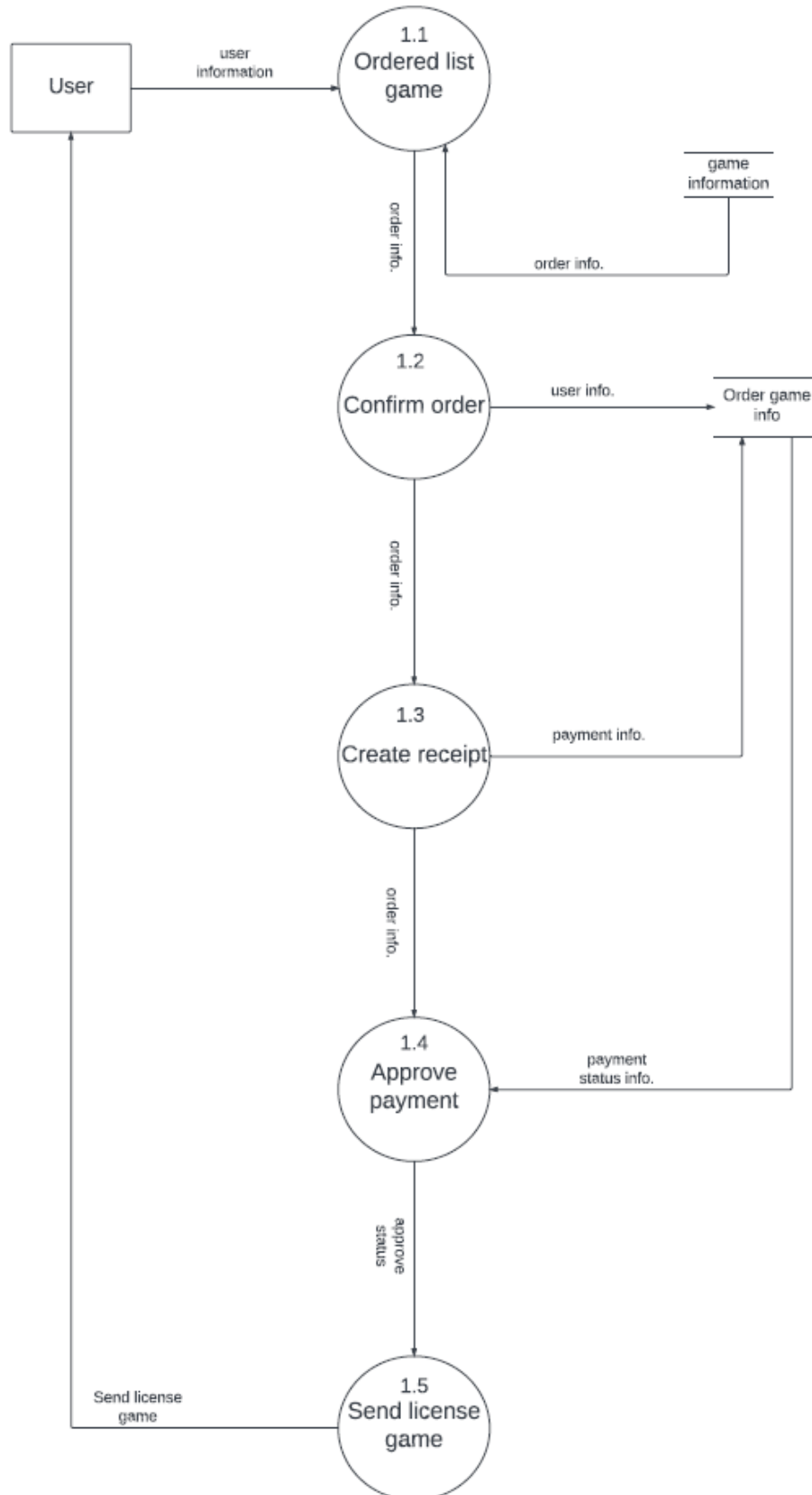


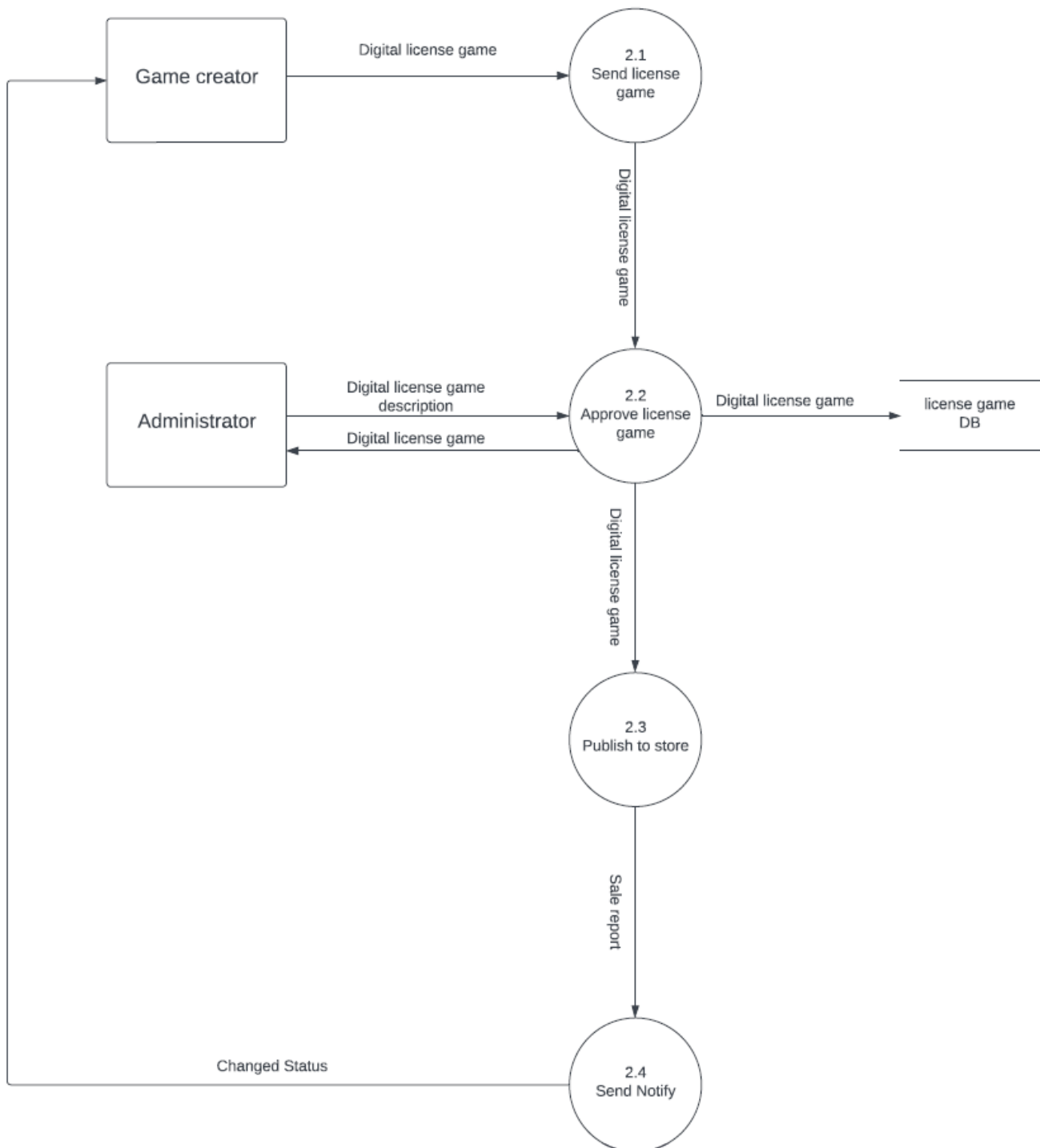
Figure 1

Data Flow Diagram level 2

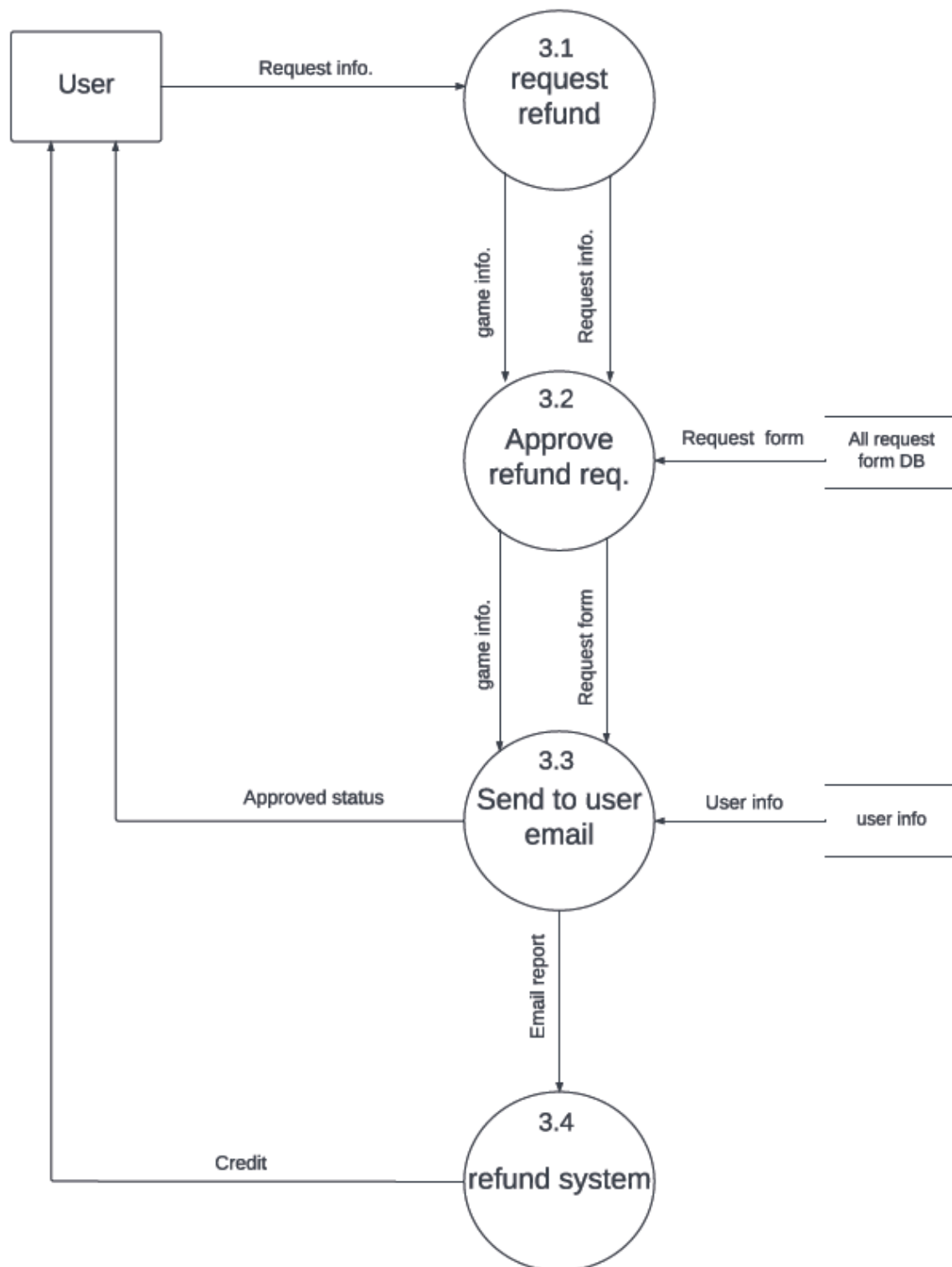
Purchasing process



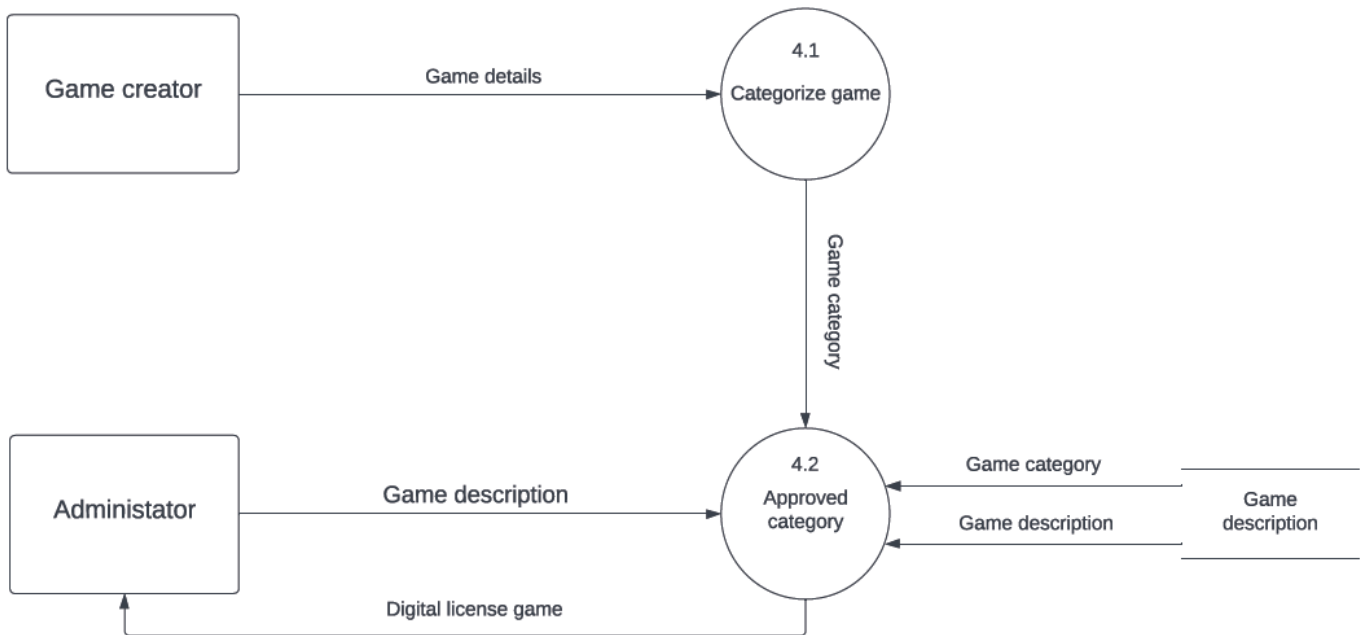
Send license game process



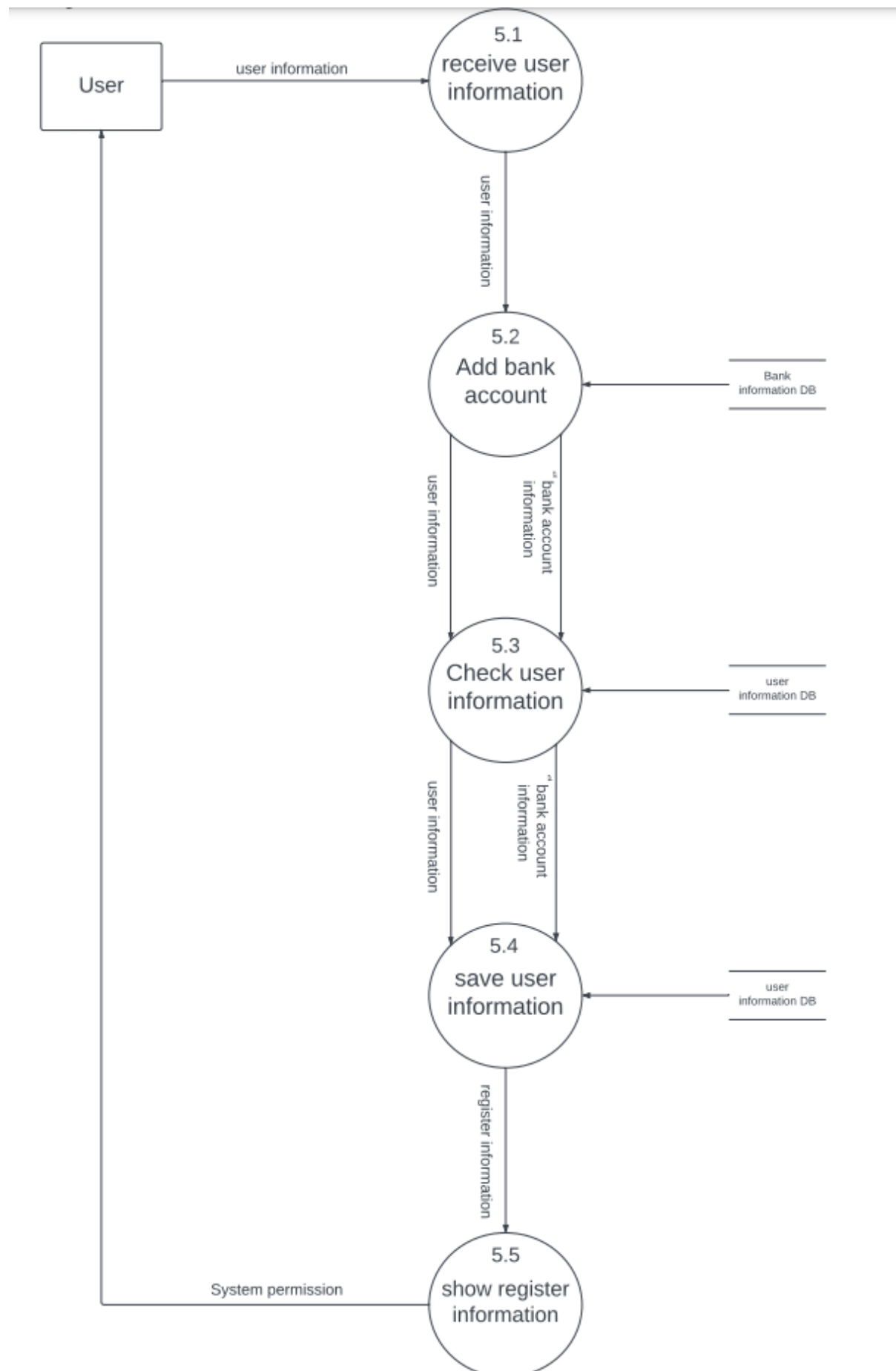
Refund process



Categorize Process



Register Process



Mock-up prototype

Design Prototype

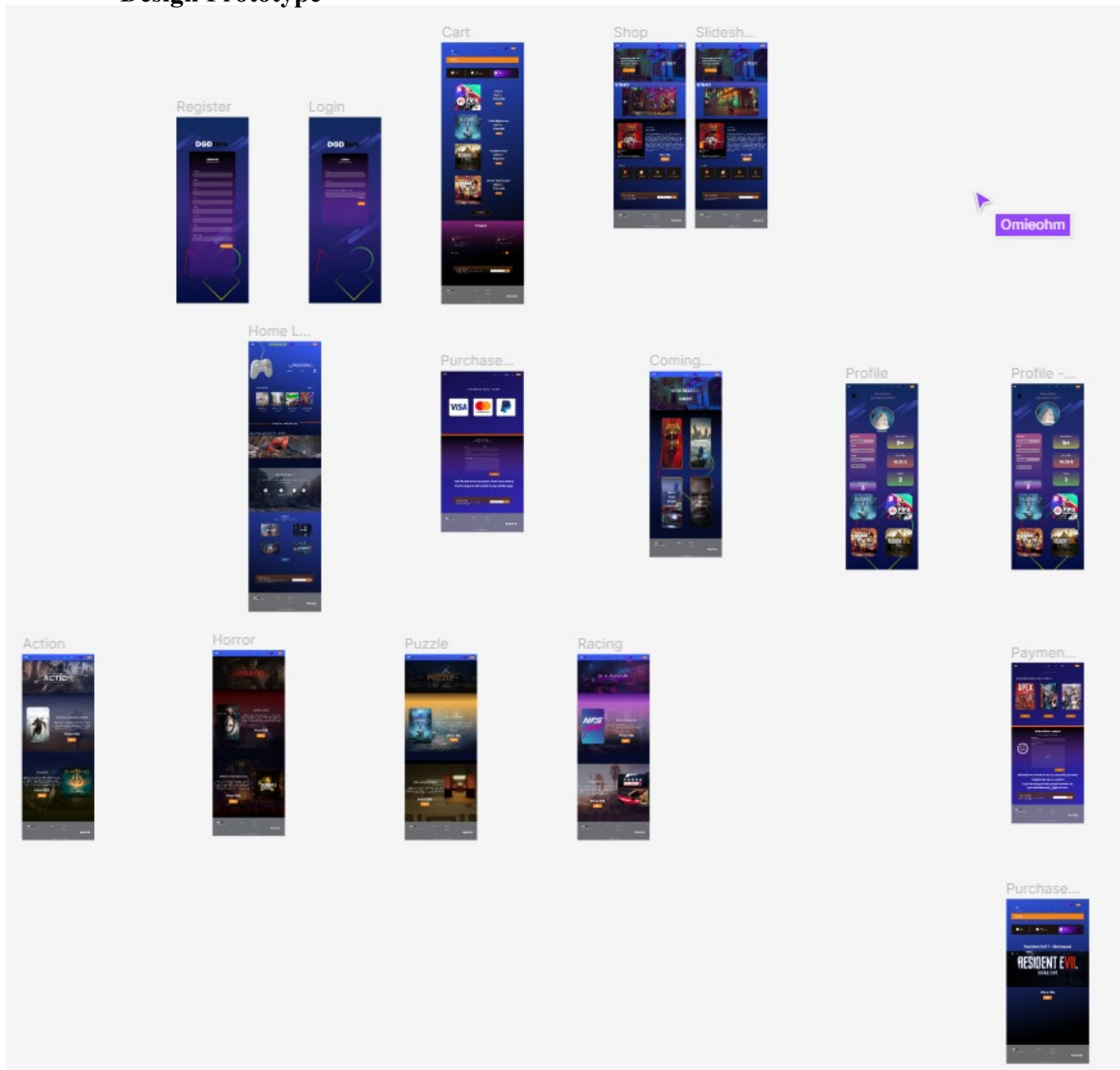


Figure 1

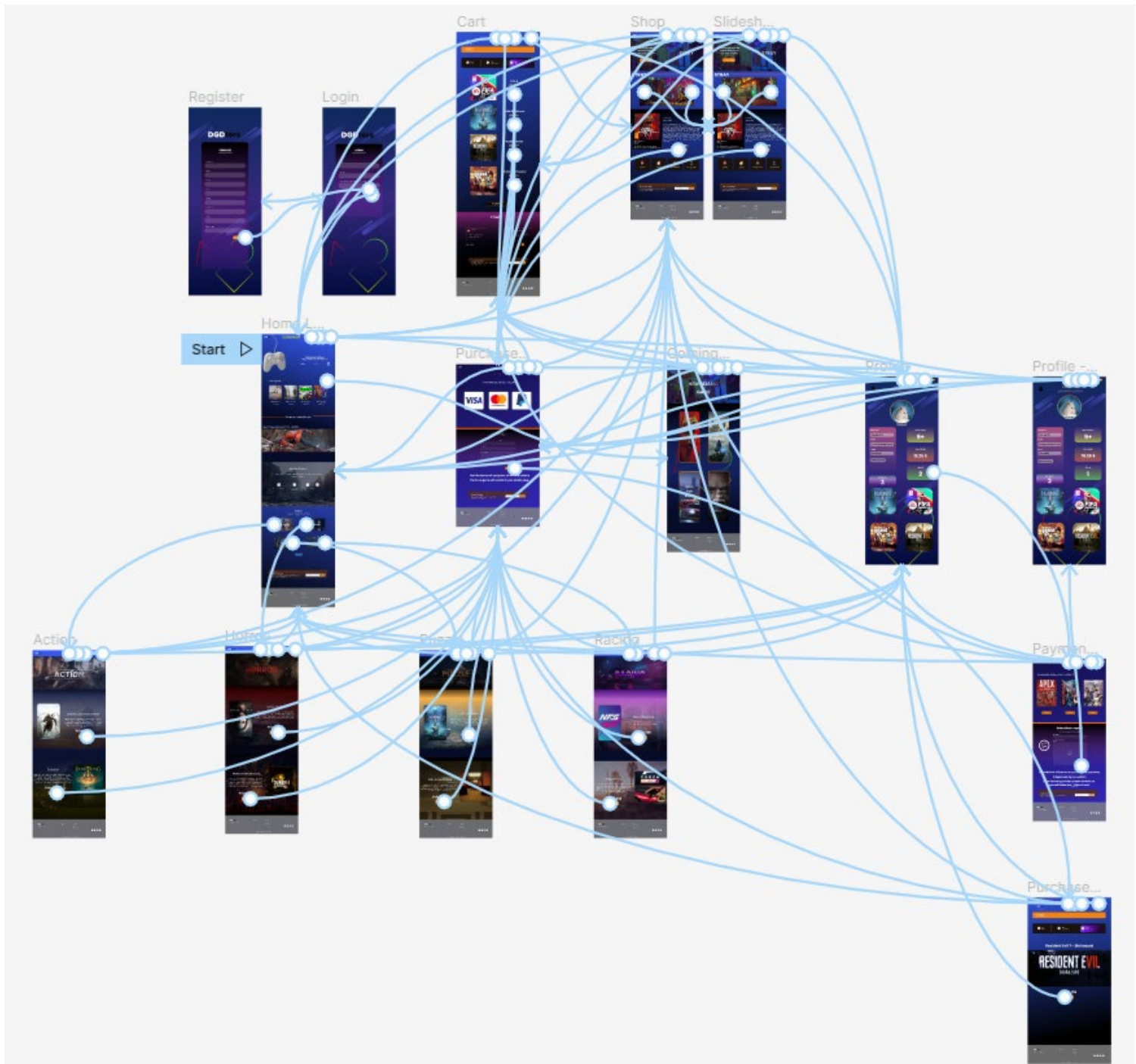


Figure 2

Source: https://www.figma.com/file/NrTkdcZhaUZrcPVCmYurS8/Digital-game-distributor_Samoyed?node-id=0%3A1&t=bsoZHRD8IW8jEQrj-1

Test Cases

Test Login Process

Description: Check to see if the login function is operational.

Test Case ID	Specification - Tittle	Test Data	Step to test	Expected Result
SY01	Test if a user will be able to login with a valid email, password, and verification code.	The user's email, password, and verification code	1. Input valid email and password to the correct field. 2. Input the valid verification code from the email address you used to register previously. 3. To check the login process, click the Login button.	If the input is valid, the website should go to the homepage.
SY02	Test if a user cannot to login with either invalid email, password, and verification code.	The user's email, password, and verification code	1. Input invalid email and password to the correct field. 2. Input the invalid verification code from the email address you used to register previously. 3. To check the login process, click the Login button.	If the input is invalid, the website should show "Incorrect email /password/ verification code" and stay at the login page.

Purchasing Process

Description: Check to see if the Purchasing function is operational.

Test Case ID	Specification - Tittle	Test Data	Step to test	Expected Result
SY03	Test if a user will be able to login with a valid first name, last name, card number, expiration date, and security code.	The user's first name, last name, card number, expiration date, and security code	1. Input valid first name and last name to the correct field. 2. Input the valid card number, expiration date, and security code into the correct field. 3. To check the payment process, click the Submit button.	If the input is valid, the website will allow you to complete the purchase by clicking "submit."
SY04	Test if a user cannot to login with either invalid first name, last name, card number, expiration date, and security code.	The user's first name, last name, card number, expiration date, and security code	1. Input valid first name and last name to the correct field. 2. Input the invalid card number, expiration date, and security code into the correct field. 3. To check the payment process, click the Submit button.	If the information you put in is wrong, the website won't let you finish the purchase after you click "Submit."

Register Process

Description: Check to see if the register function is operational

Test Case ID	Specification - Tittle	Test Data	Step to test	Expected Result
SY05	Test if a user will be able to register with valid information and create an account.	The user's valid information	1. Input all valid information into required fields. 2. Press the done button.	If all the information is correct, the website will save the user's information to the database, create your account, and send a verification code to your email.
SY06	Check to see if a user can sign up with incorrect information and still create an account.	The user's invalid information	1. Input invalid information into required fields i.e., wrong email domain. 2. Press the done button.	If all of the information is incorrect, the website will notify the user in the missing or invalid field and allow them to re-enter their information.

Functional Requirement Traceability Matrix

Functional Requirements ID	Functional Requirements	Design (DFD Process)	Test	Status (Pass/Fail)
FR01	Users can edit their profiles and personal information.	Process - Register	SY05 and SY06	Pass
FR02	Users can choose a password with a unique character, uppercase letters, or more than 8 characters.	Process - Register	SY05 and SY06	Pass
FR03	The customer can make a payment by credit card only.	Process - Purchasing	SY03 and SY04	Pass
FR04	Users can login to the platform according to their role.	Process – Login	SY01 and SY02	Pass