



Project Phase 2
Digital Game Store System

By

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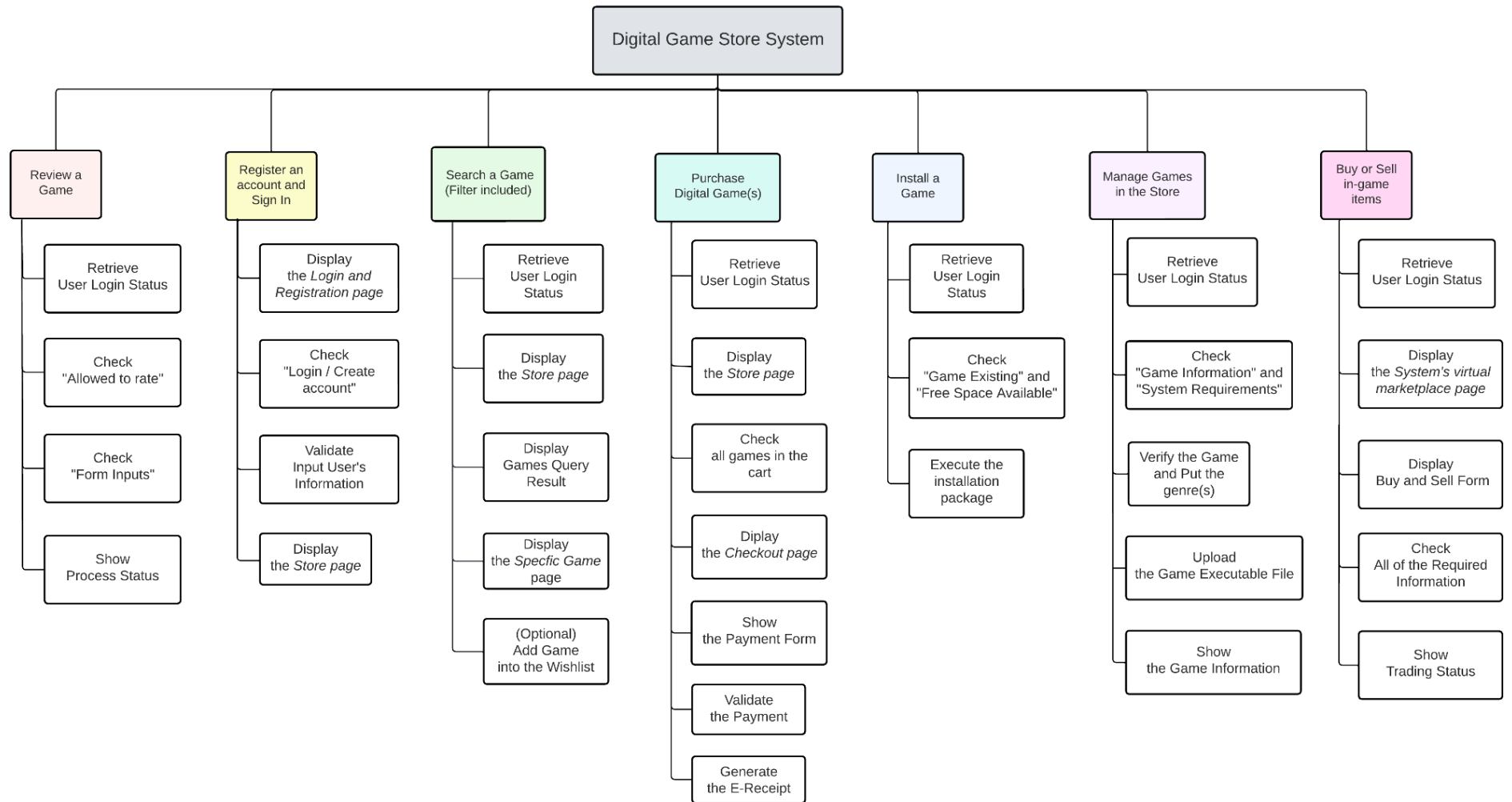
A Report Submitted in Partial Fulfillment of
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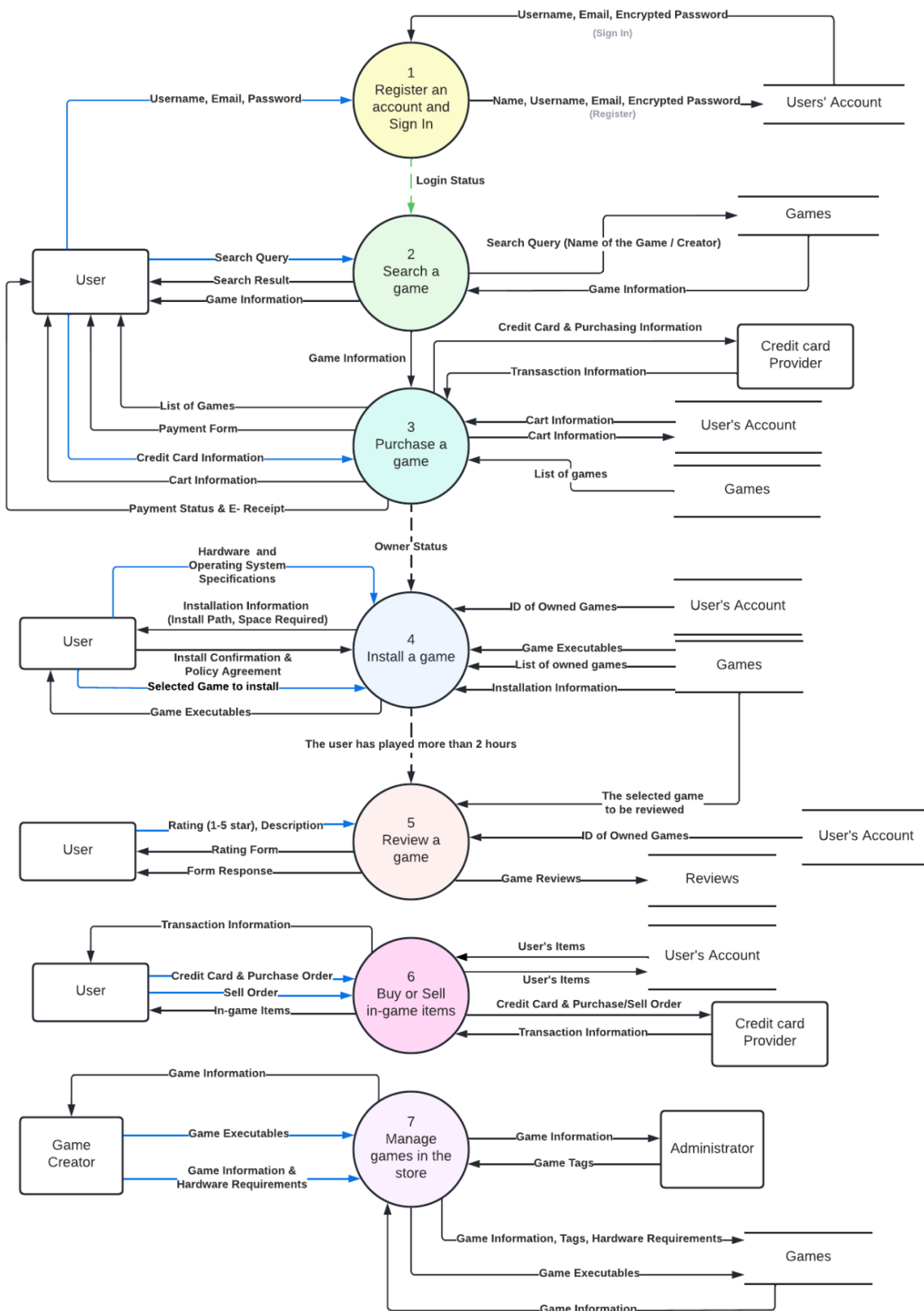
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Functional Decomposition Diagram

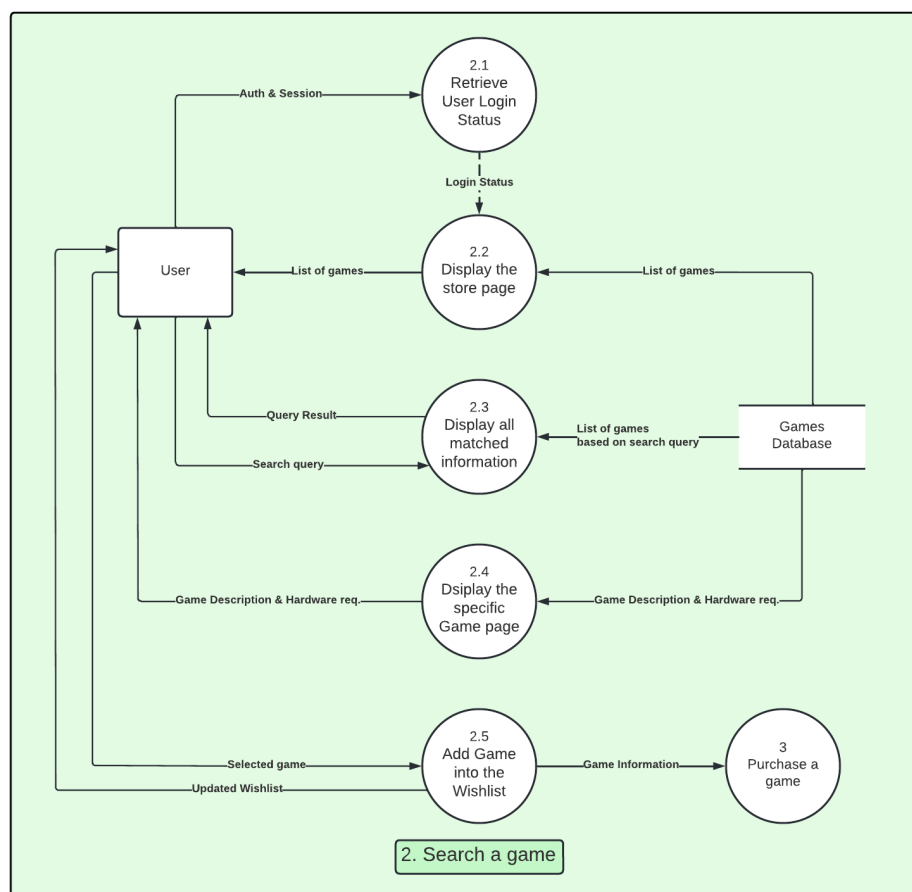
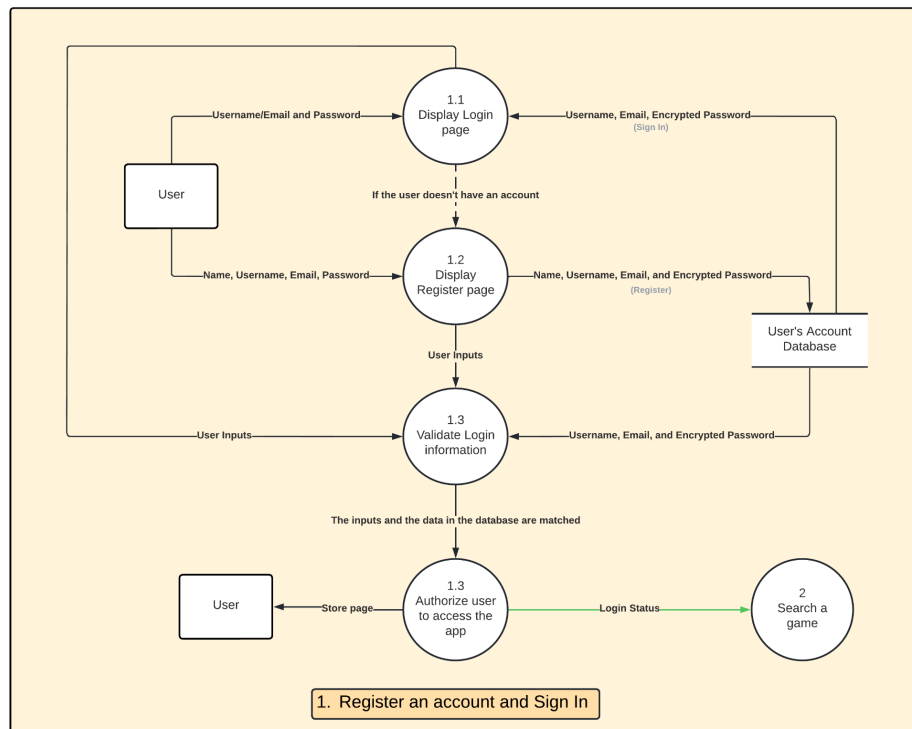


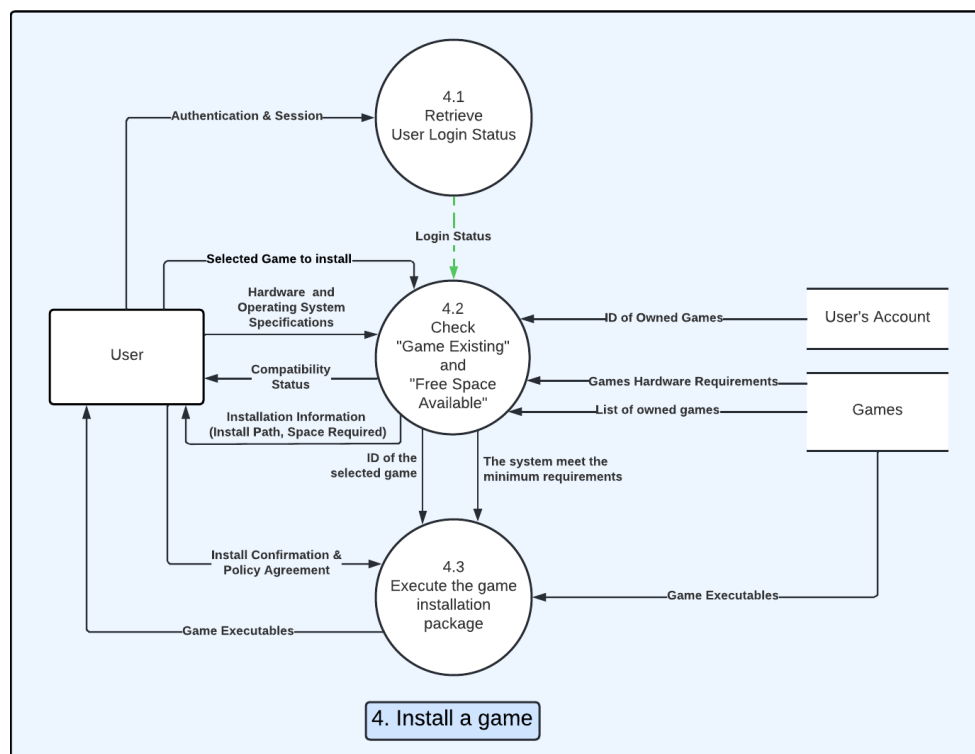
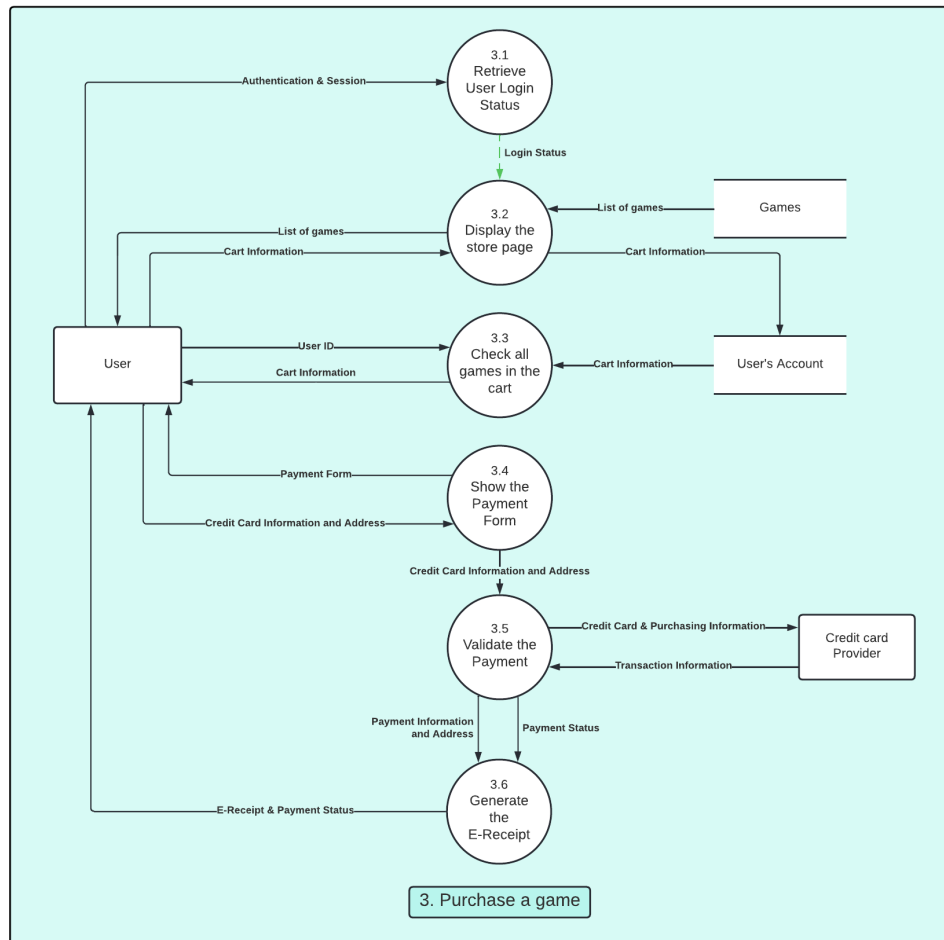
Data Flow Diagram Level 1 and 2

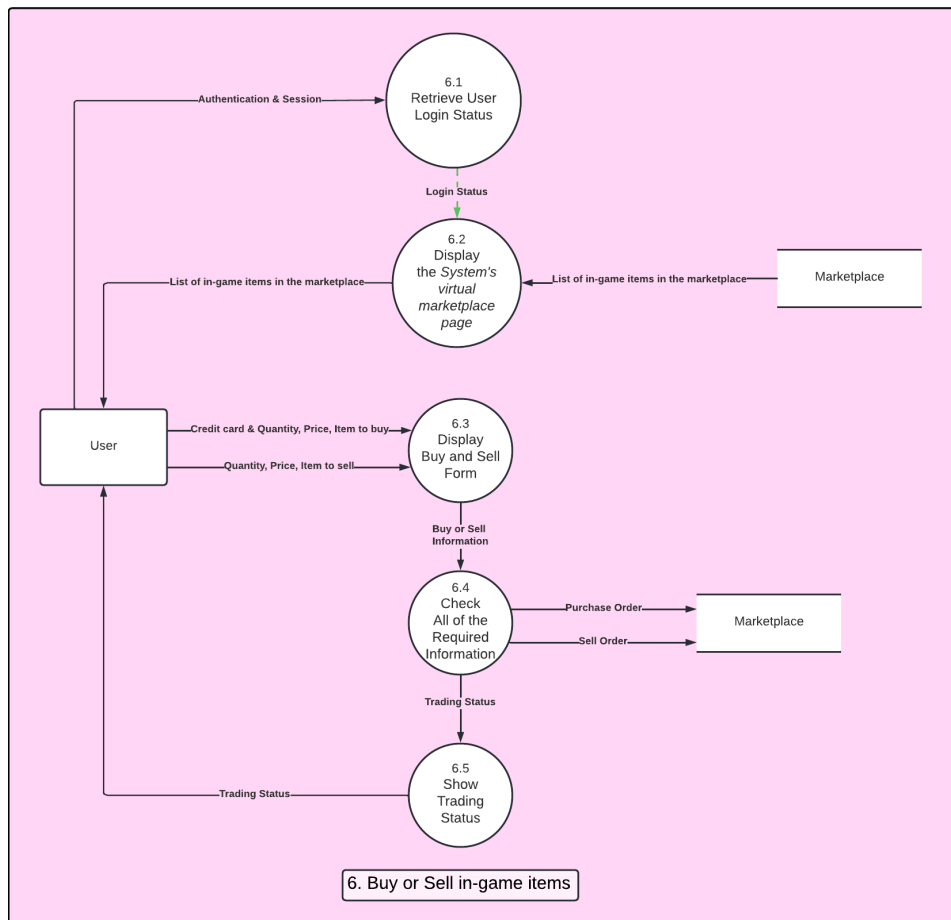
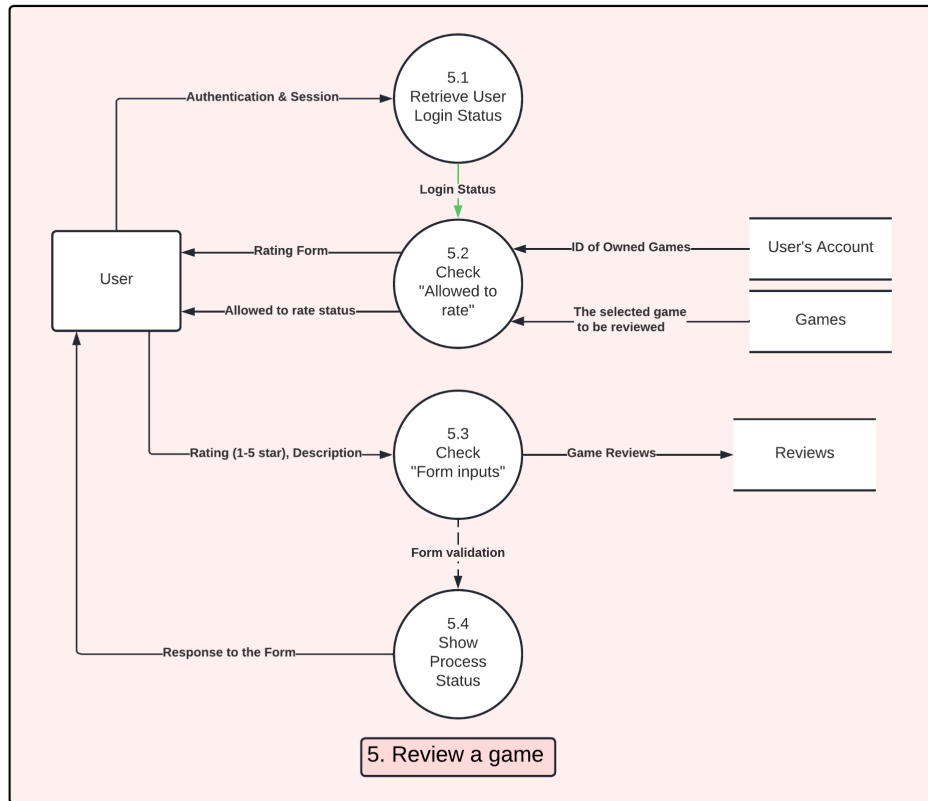
Data Flow Level 1 (DFD-Level 1)

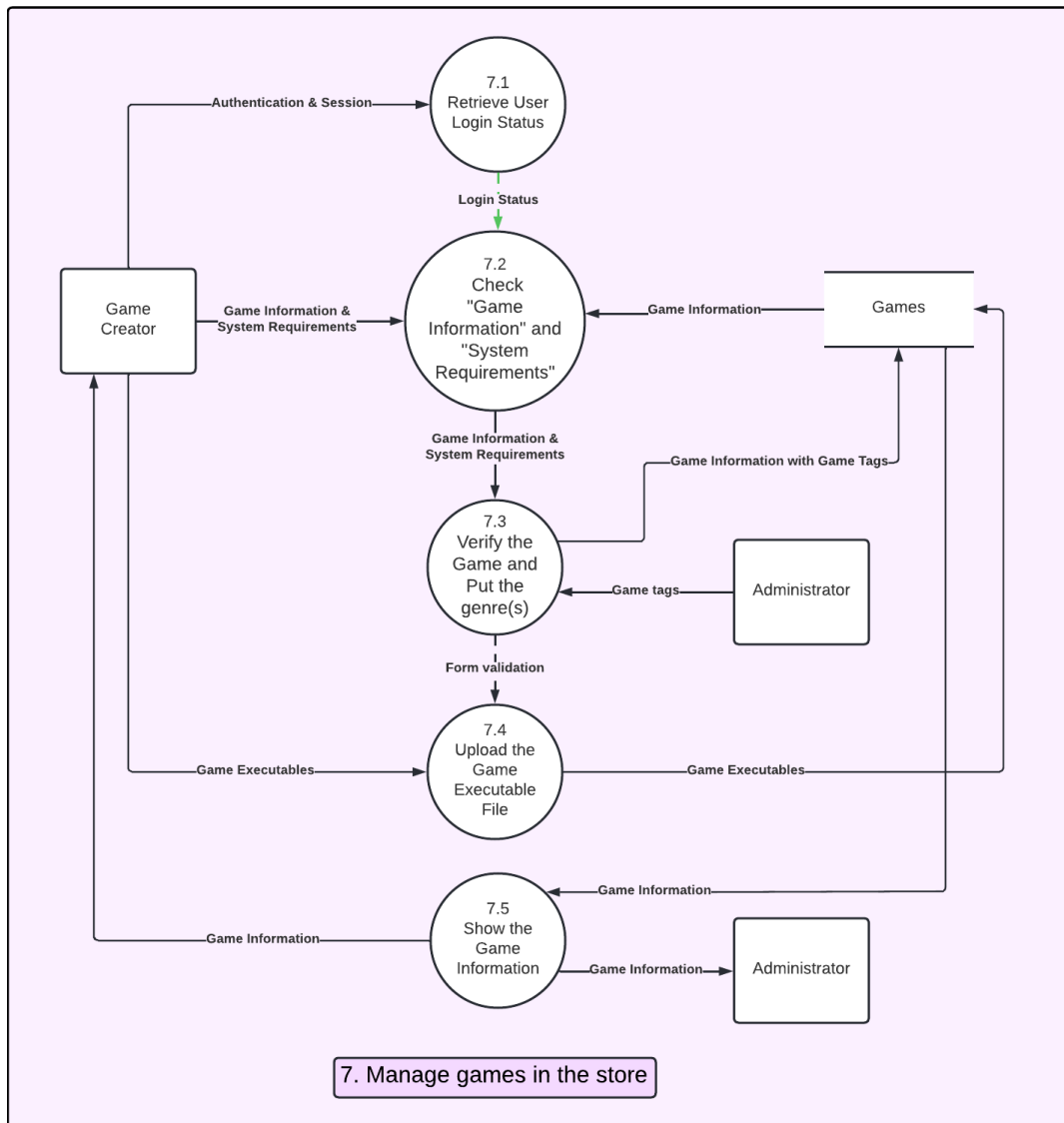


Data Flow Level 2 (DFD-Level 2)









Mock-up Prototype

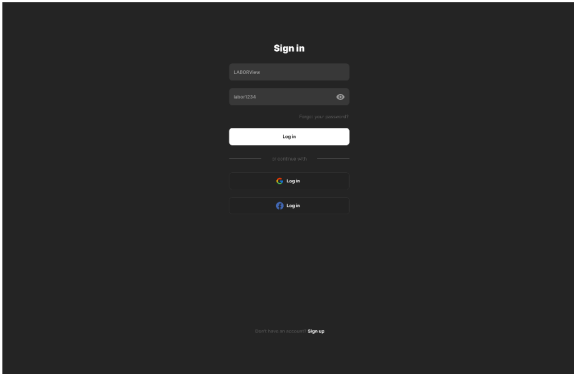
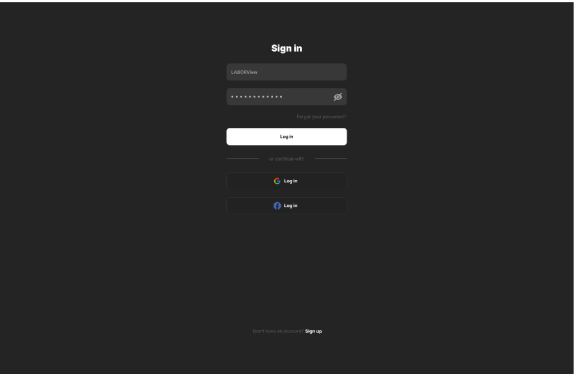
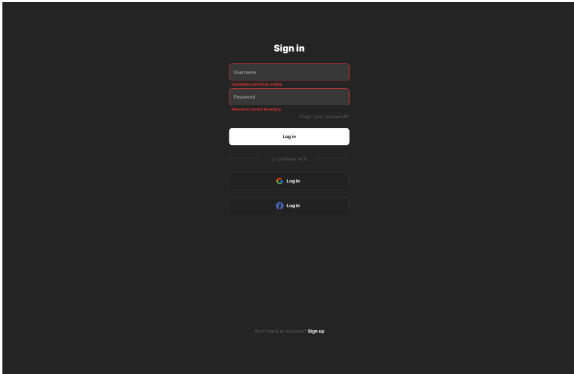
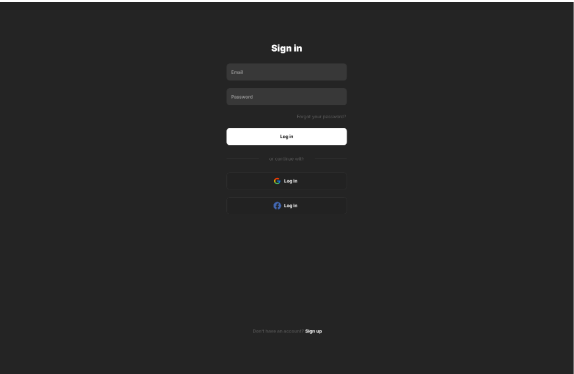
Prototype link:

<https://www.figma.com/file/UsOJocjZzj9fziFLfQGr5n/%5BSE%5D-Mock-up-Prototype?node-id=0%3A1&t=UWhEtMJrZcUrebSl-1>

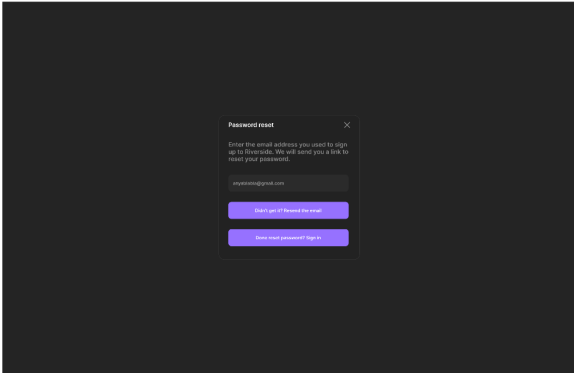
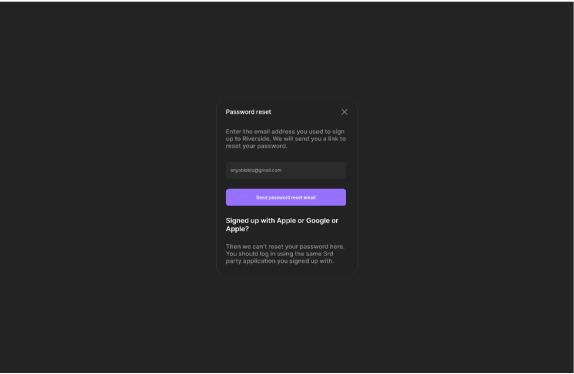
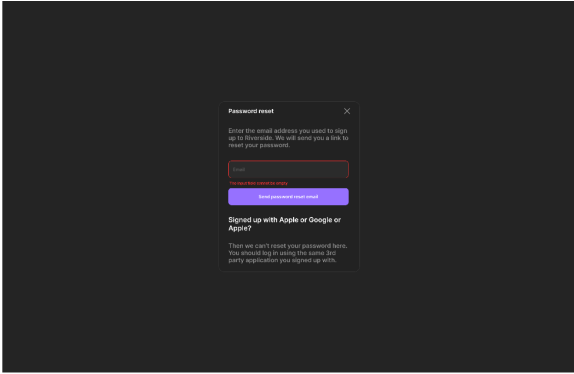
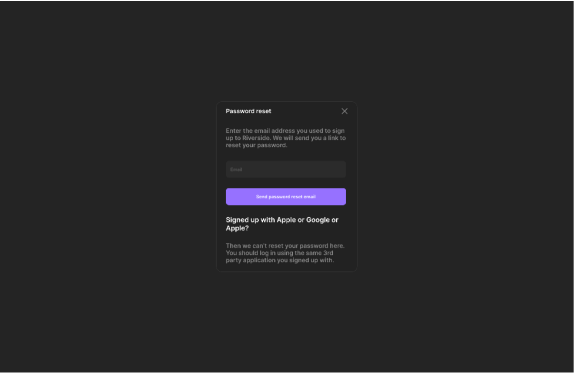
Process Name: Register an account and Sign In

The mock-up prototype consists of seven screenshots arranged in a grid. The first six screenshots show the 'Create a new account' form with various input fields and validation states. The seventh screenshot shows a confirmation message: 'Your account has been created. Please complete the email verification by clicking on the link sent to your email within 24 hours.' with a 'Sign in' button.

Registration Page

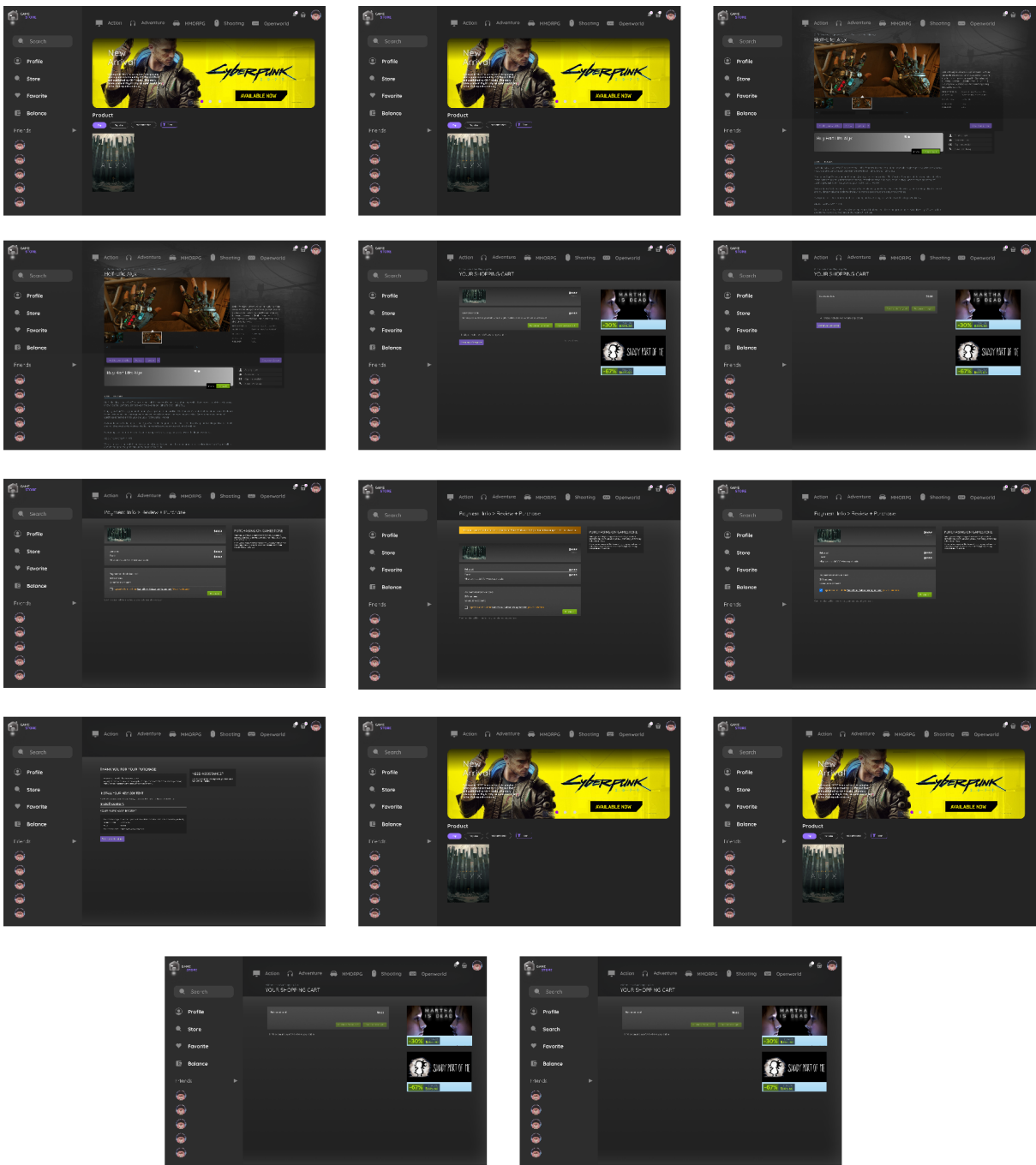


Sign In Page



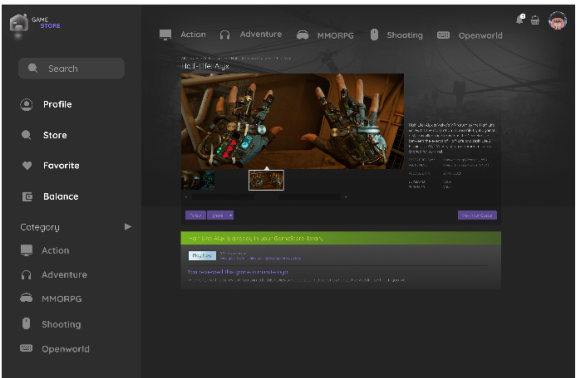
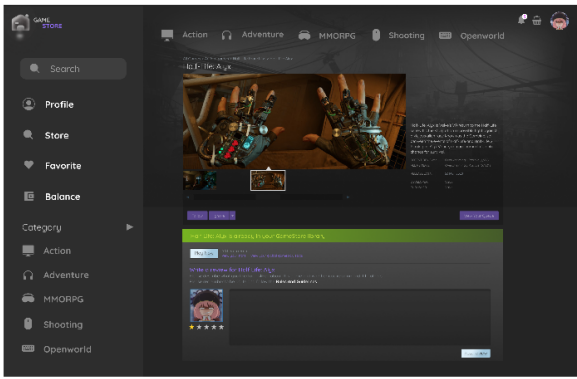
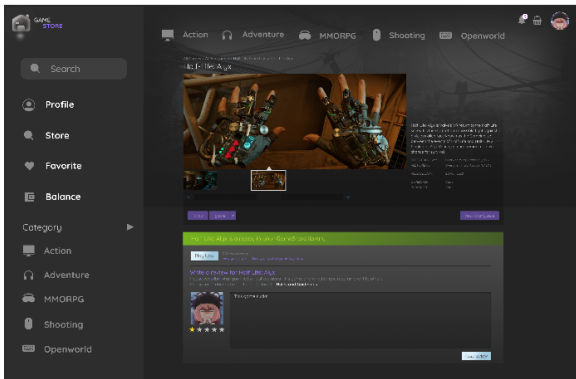
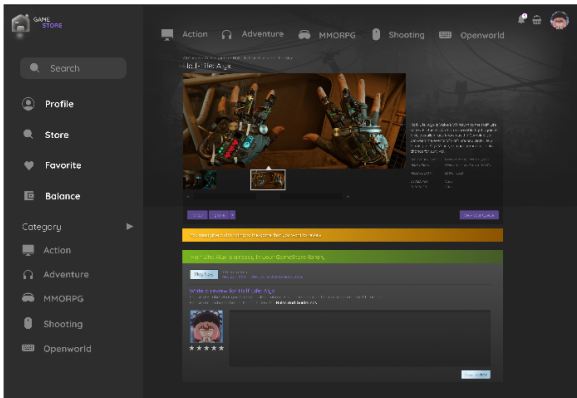
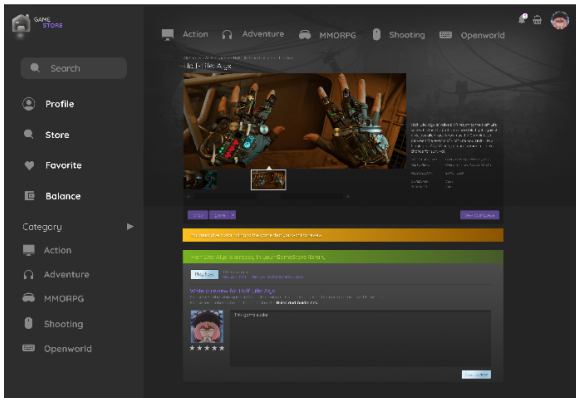
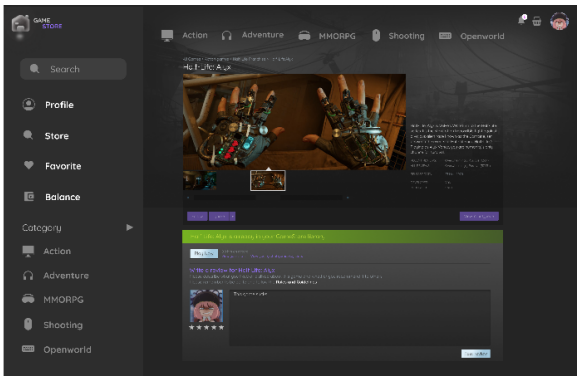
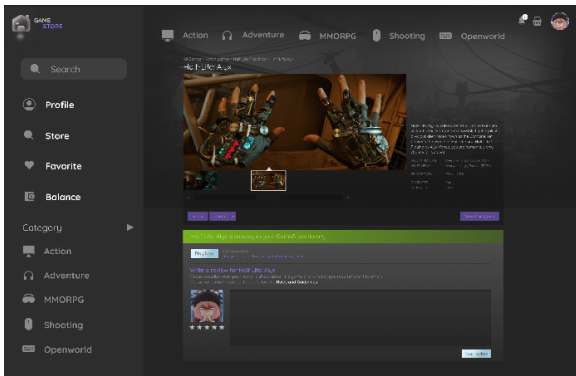
Reset Password

Process Name: Purchase a game



Game Store and Purchase a game

Process Name: Review a game



Review a game

Test cases

Test Case ID	Test Case Description	Test Steps	Test Data	Expected Results	Actual Results	Pass/Fail
Process 1 - Register an account and Sign In						
T1	Check register an account with valid data	<ol style="list-style-type: none"> 1. Open the application 2. Click Sign up 3. Enter Username 4. Enter Email 5. Enter Password 6. Enter Confirm Password 7. Click Sign up 	Username = CEOAriya Email = anyablabla@gmail.com Password = CEOAriya123\$ ConfirmPassword = CEOAriya123\$	User should see the successfully created account message and log in to the application.	As expected	Pass
T2	Check user login with valid data	<ol style="list-style-type: none"> 1. Open the application 2. Enter Username or Email 3. Enter Password 4. Click Log in 	Username = CEOAriya Password = CEOAriya123\$	User should be logged in to the application.	As expected	Pass
T3	Test creating a new account with an existing username and email	<ol style="list-style-type: none"> 1. Open the application 2. Click Sign up 3. Enter Username 4. Enter Email 5. Enter Password 6. Enter Confirm Password 7. Click Sign up 	Username = CEOAriya Email = anyablabla@gmail.com Password = CEOAriya123\$ ConfirmPassword = CEOAriya123\$	User should see the message "This email has already been used" under the email field, and "This username has already been used" under the Username field.	As expected	Pass

T4	Test inputting Password and Confirm Password are not the same.	<ol style="list-style-type: none"> 1. Open the application 2. Click Sign up 3. Enter Username 4. Enter Email 5. Enter Password 6. Enter Confirm Password 7. Click Sign up 	Username = CEOAriya Email = anyablaba@gmail.com Password = CEOAriya123\$ ConfirmPassword = CEO ariya 123 4 \$	User should see the message “The confirm password doesn’t match with the password”	As expected	Pass
T5	Test creating a new account with a weak password (doesn’t match with the guideline)	<ol style="list-style-type: none"> 1. Open the application 2. Click Sign up 3. Enter Username 4. Enter Email 5. Enter Password 6. Enter Confirm Password 7. Click Sign up 	Username = CEOAnya Email = anyahaha@gmail.com Password = ceoanya Confirm Password = ceoanya	The user should see the message “The password needs to be at least 8 characters with a number and a symbol”	As expected	Pass
Process 3 - Purchase a game						
T6	Check valid payment and address information	<ol style="list-style-type: none"> 1. Open the application 2. Login to the system 3. Add some games to the cart 4. Click the Cart icon 5. Proceed to the Checkout page 6. Fill in the payment and address information 7. Click Pay 	Creditcard No.= 555555555554444 (Mastercard) CVV = 543 Address = Street: 21 Ground Floor Tst Tower Ladyao City: Chatuchak State/province/area: Bangkok Phone number 662 2738866 Zip code 10900 Country Thailand	User should receive the validation from the credit card provider (supposing the provider always permit the validation)	As expected	Pass

T7	Check invalid credit card number, but valid address information	<ol style="list-style-type: none"> 1. Open the application 2. Login to the system 3. Add some games to the cart 4. Click the Cart icon 5. Proceed to the Checkout page 6. Fill in the payment and address information 7. Click Pay 	Creditcard No.= 555544443333 CVV = 543 Address = Street 21 Ground Floor Tst Tower Ladyao City = Chatuchak State/province/area = Bangkok Phone number = 062 2738866 Zip code = 10900 Country = Thailand	User should see the message "Invalid card number".	As expected	Pass
T8	Check unfilled required inputs	<ol style="list-style-type: none"> 1. Open the application 2. Login to the system 3. Add some games to the cart 4. Click the Cart icon 5. Proceed to the Checkout page 6. Fill in the payment and address information 7. Click Pay 	Creditcard No.= null CVV = null Address = Street 21 Ground Floor Tst Tower Ladyao City = Chatuchak State/province/area = Bangkok Phone number = 062 2738866 Zip code = 10900 Country = Thailand	User should see the message "This field is required" under the required input fields	As expected	Pass

Process 5 - Review a game						
T9	Successfully created a rating for a game	<ol style="list-style-type: none"> 1. Open the application (Logged In) 2. Search the game to review 3. Access the game's page 4. If the user owns and has played the game more than 2 hours, the user will see the Rating Form 5. Fill in the form 6. Click Submit 	Reviews = This game is very good. I like it. Stars: 5 stars	User should see the review created with a success message.	As expected	Pass
T10	Check unfilled required fields in Rating Form	<ol style="list-style-type: none"> 1. Open the application (Logged In) 2. Search the game to review 3. Access the game's page 4. If the user owns and has played the game more than 2 hours, the user will see the Rating Form 5. Fill in the form 6. Click Submit 	Reviews = null Stars: null	User should see the message "This field is required" under the required fields	As expected	Pass
T11	Check user doesn't meet the criteria to review the game	<ol style="list-style-type: none"> 1. Open the application (Logged In) 2. Search the game to review 3. Access the game's page 	User Own the game = True Played time = 1 hour 30 minutes	User should not see the Rating Form	As expected	Pass

Functional Requirement Traceability Matrix

Requirement	Design (DFD Process)	Test
R1	Process 1 - Register an account and Sign In	T1, T2, T3,T4,T5
R2	Process 3 - Purchase a game	T6, T7, T8
R3	Process 5 - Review a game	T9, T10, T11