Degree Project Report
”GameStoreGG”

Follow Up on Project Plan

In my project plan I outlined a clear set of goals. Implementing core e-commerce functionality such as user authentication, product browsing, shopping cart, payment system with stripe, coupon system and admin dashboard. I also did caching for optimization.

I managed to reach nearly all my goals. In the beginning I did pretty well but my mistake was to underestimate project complexity and time management. I had to reduce slightly the scope. While I focused on all core features but had to cut the rating video games feature and searching bar. Lucky me those parts were “Nice to have” in my project plan.

Final Result

The final result is a fully functional e-commerce website inspired by platforms like Itch.io, Steam and EpicGames. The site includes:

Frontend built with ReactJs and Tailwind Css.

Backend built with NodeJs and Express with MongoDB for database.

Admin can upload the name, Image, description and set the price to pay in USD currency, all for each video game. Admin can also see the analytics for how revenue and sale has been during the past seven days.

The result for client is that the client can sign up/login and add games into their cart and pay(stripe is set on test mode, client can just spam 42 on card number and pass the payment). After payment the library section show the download link for the bought games. Clients can also write comments to let admin and other clients know what client's opinion is on those games.

New Skills and Knowledge Gained

I am happy with this project. I gained so much knowledge throughout this project. I learned how to do the frontend and backend, integrate them and do some caching techniques with Upstash Redis. With Redis some data are saved in Ram which makes the website to run faster and smoother.

Challenges Overcome

First and foremost learning new tools and libraries. For example ReactJs, Stripe, Redis, Cloudinary, Zustand etc.

Secondly In frontend I had asynchronous issues in data fetching from server.

Thirdly as I mentioned before one of my challenges was misconception about time estimation.

Finally, at the end I was able to overcome them by deep searching, reading and changing the scope.

Application to a Future Career

The skills I learned in this project are highly transferable to a future career.

Backend development for game relative systems like login system, leaderboards, in game stores, or analytics.

UI development for game launchers and web apps.

Problem solving which is a day to day requirement in game and web development.

Reflection and Summary

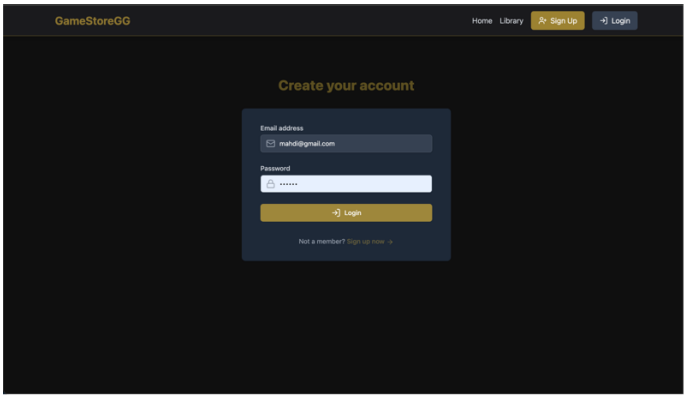
In summary this project was a great way of learning. If I could go back, I would do the same approach. I am regretting nothing, because I think mistakes are an important part of learning curve. But for the future projects I try to not make the same mistakes as I did before.

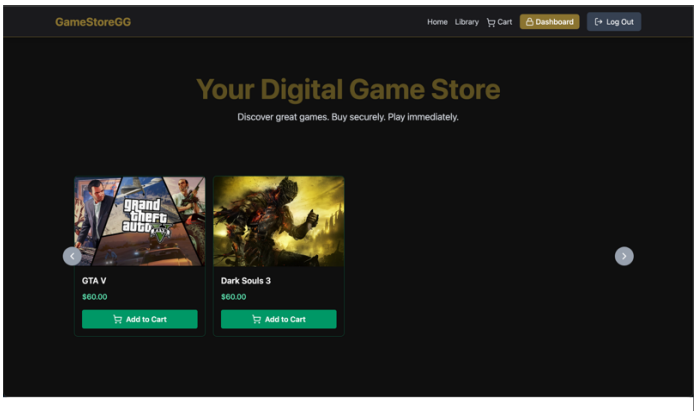
Future of This Project and Things That Can Be Added

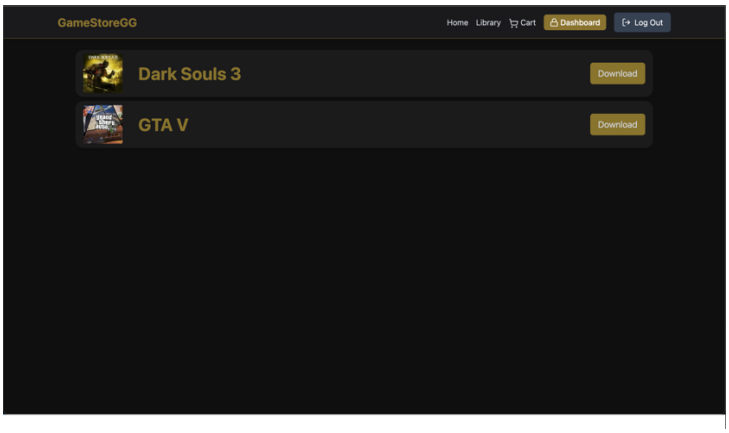
In future I may continue working on this project. There are many things that can be added and enhance the experience.

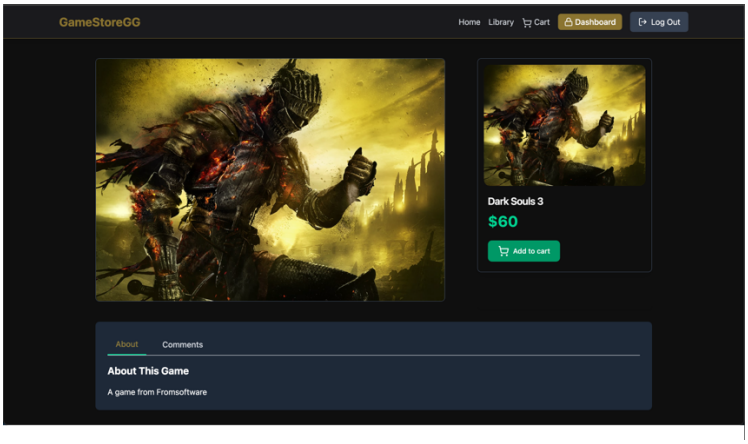
Rating video games to see what games most clients do like. Making a proper profile for client to add bio text, profile picture, unlocking badges etc.

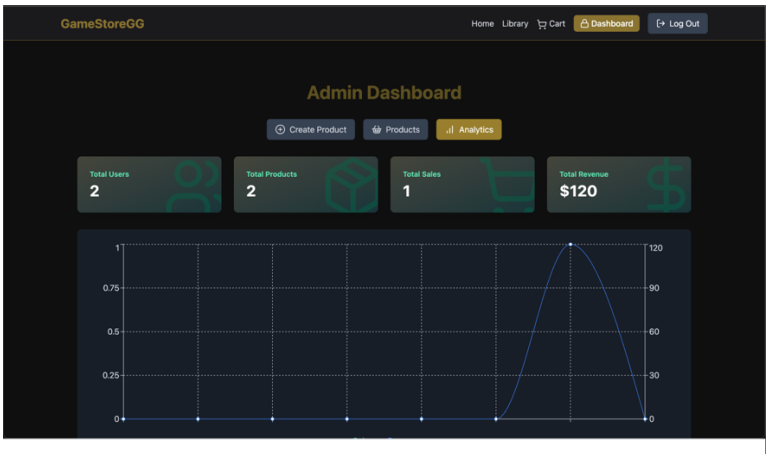
Here are some pictures: Note that those video game pictures are for testing purposes.






GameStoreGG
Home
Library
Cart
Dashboard
Log Out
Dark Souls 3
Download
GTA V
Download


GameStoreGG
Home
Library
Cart
Dashboard
Log Out
Dark Souls 3
$60
Add to cart
About
Comments
About This Game
A game from Fromsoftware


GameStoreGG
Home
Library
Cart
Dashboard
Log Out
Admin Dashboard
Create Product
Products
Analytics
Total Users
2
Total Products
2
Total Sales
1
Total Revenue
$120
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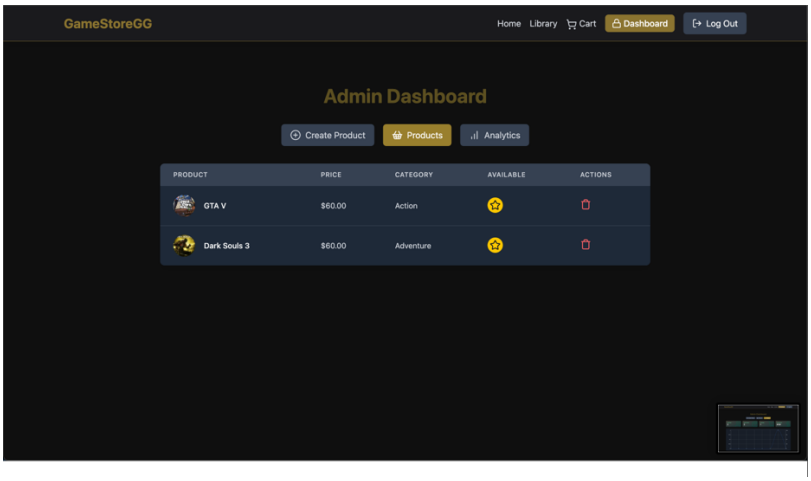
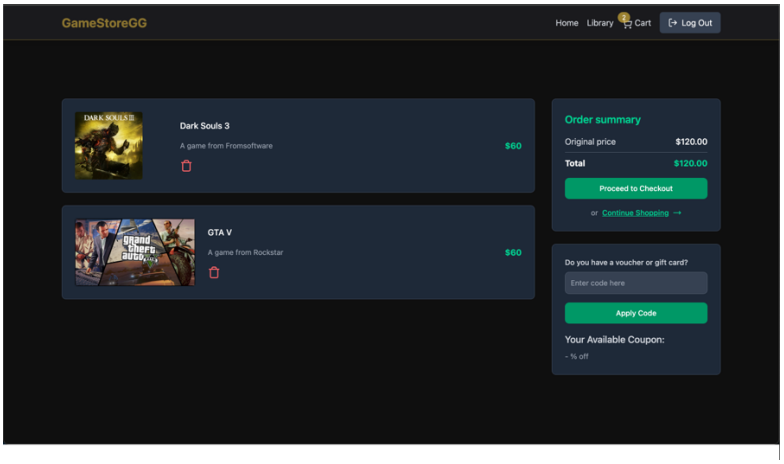
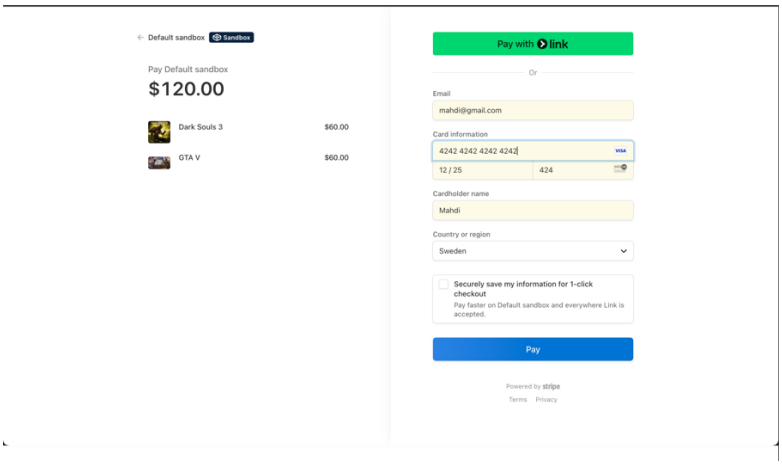
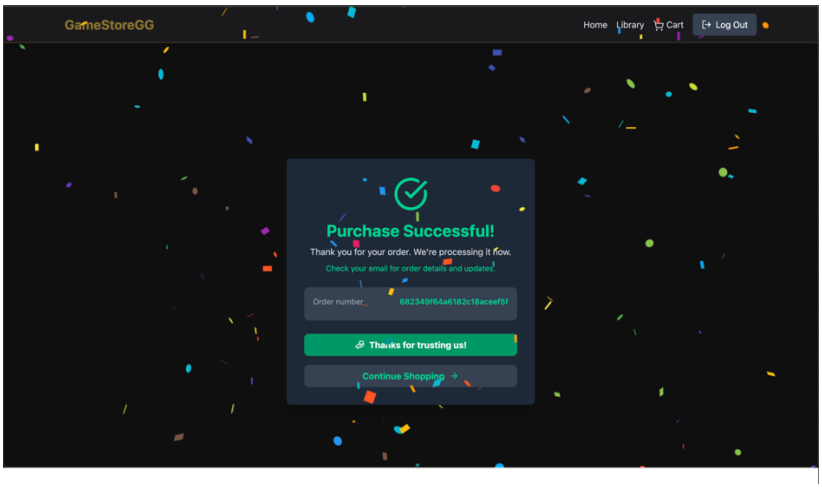
0.5
0.25
0
120
90
60
30
0

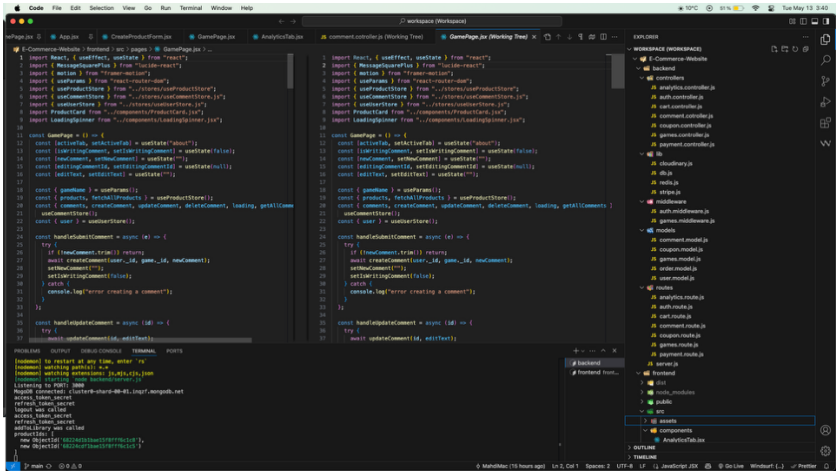

GameStoreGG
Home
Library
Cart
Dashboard
Log Out
Admin Dashboard
Create Product
Products
Analytics
PRODUCT
PRICE
CATEGORY
AVAILABLE
ACTIONS
GTA V
$60.00
Action
Dark Souls 3
$60.00
Adventure

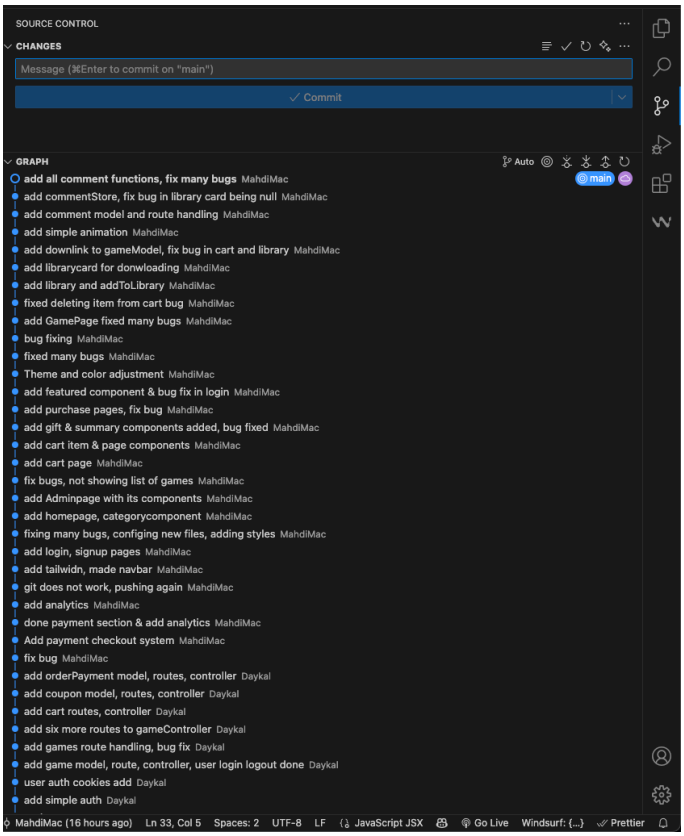

GameStoreGG
Home
Library
Cart
Log Out
Dark Souls 3
A game from Fromsoftware
$60
GTA V
A game from Rockstar
$60
Order summary
Original price
$120.00
Total
$120.00
Proceed to Checkout
or Continue Shopping →
Do you have a voucher or gift card?
Enter code here
Apply Code
Your Available Coupon:
- % off


Default sandbox
Sandbox
Pay Default sandbox
$120.00
Dark Souls 3
$60.00
GTA V
$60.00
Pay with link
Or
Email
mahdi@gmail.com
Card information
4242 4242 4242 4242
12 / 25
424
Cardholder name
Mahdi
Country or region
Sweden
Securely save my information for 1-click checkout
Pay faster on Default sandbox and everywhere Link is accepted.
Pay
Powered by stripe
Terms Privacy

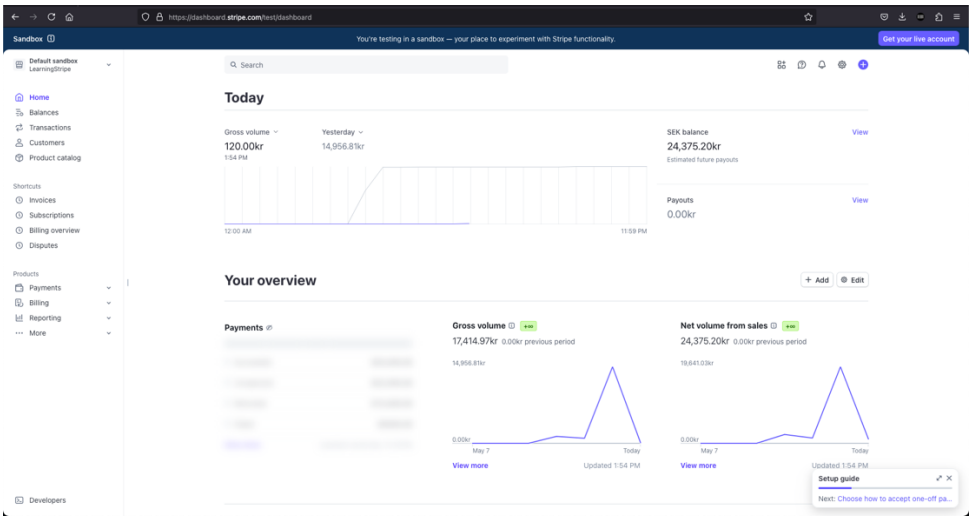

GameStoreGG
Home
Library
Cart
Log Out
Purchase Successful!
Thank you for your order. We're processing it now.
Check your email for order details and updates.
Order number
682349f64a6182c18aceef5f
Thanks for trusting us!
Continue Shopping

A part of my code and journey of git pushes

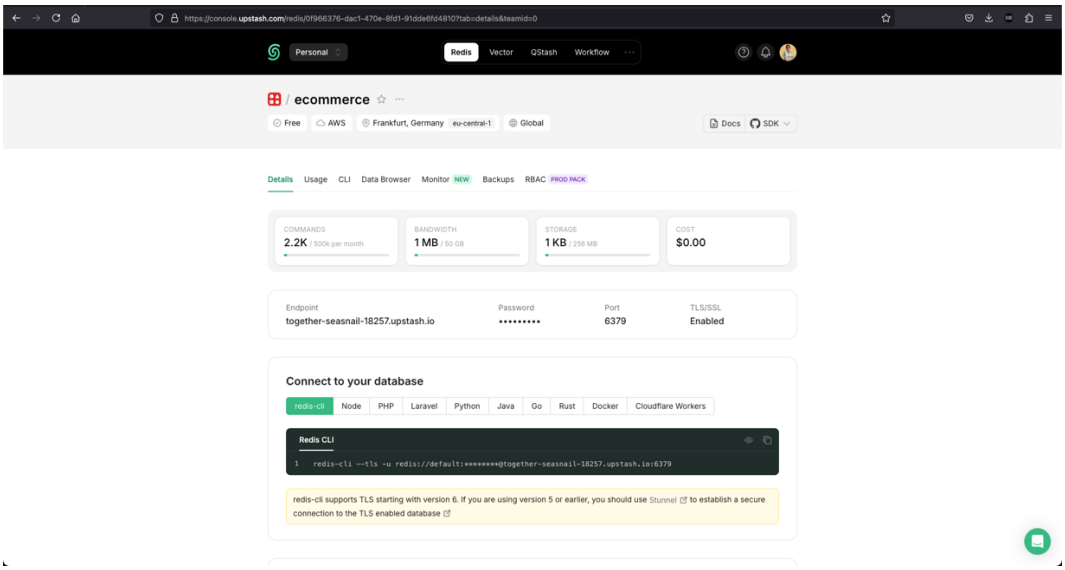




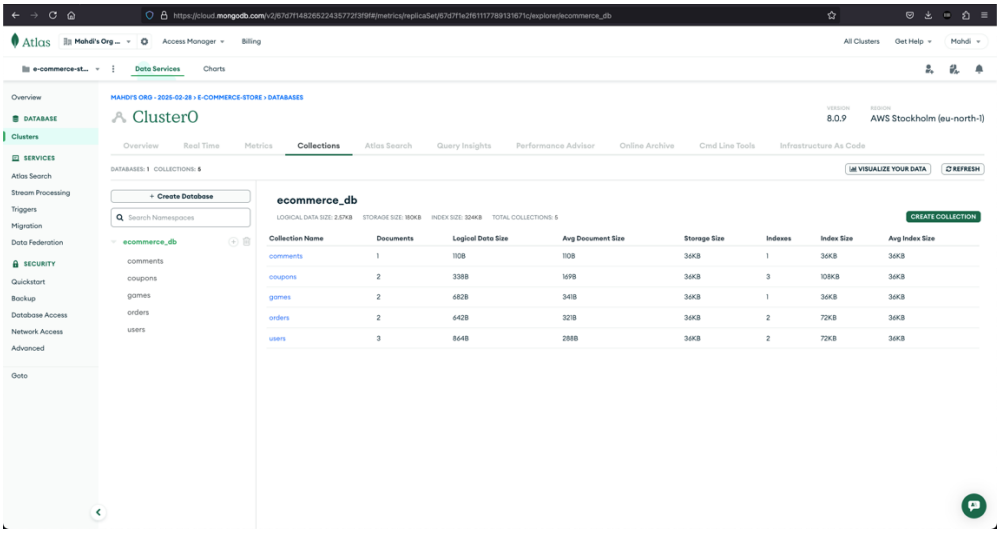
Stipe which handles payment, it is integrated in my website



Upstash Redis for storing data for fast access



MongoDB used for Database management



Finally, Cloudinay for uploading and saving game images