

2020

VIDEO GAME RENTAL SYSTEM

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GROUP 10

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Users; Value; Worthwhile; Competitors.



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PART 01

Description

1 Description

Video game rental system, as the name suggests, is a one stop website to rent or borrow video games. The website allows the users to create video game titles, post it up for selling/lending, buy/borrow the games that are up for grabs, and review the seller and games after buying. We have listed core features we are planning to implement along with extra features.



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PART 02

Core Features

2 Core Features

Users

The user collection contains all users registered with the service, along with pertinent basic information. 3 lists of video games that the user has put up for lending, games owned by the user, games currently borrowed by the user.

1. "UserId": "7b7997a2-c0d2-4f8c-b27a-6a1d4b5b6310",
2. "email": "xxx@gmail.com",
3. "password": "xxxxxx",
4. "firstName": "XX",
5. "lastName": "XX",
6. "profilePicture": "/static/example.jpg",
7. "address": "xxxxxxxxxx",
8. "city": "Hoboken",
9. "state": "NJ",
10. "country": "US",
11. "ZIP": "07030",
12. "LendedGamesID": ["7c7997a2-c0d2-4f8c-b27a-6a1d4b5b6310", "xxx", ...],
13. "OwnedGamesID": ["7c7997a2-c0d2-4f8c-b27a-6a1d4b5b6310", "xxx", ...],
14. "BorrowedGamesID": ["7c7997a2-c0d2-4f8c-b27a-6a1d4b5b6310", "xxx", ...]

2 Core Features

Video Games

The games collection contains unique entries put up by the user lending or selling the game. It should contains information about the video games.

1. "gameId": "XXXXXXXXXXXXXXXXXXXXX",
2. "ownerId" : "userID"
3. "name": "xxxxxx",
4. "genre": "XX",
5. "gameDetail": "xxxxxxxxxxxxxxxxxxxxxx",
6. "released date": "2020/10/16",
7. "gamePictures": ["/static/example.jpg1", "/static/example.jpg2"...],
8. "platform" : "PS5"
9. "available": true,
10. "Category": "rent"(or "sell"),
11. "comments": [commentsId ...]

2 Core Features

Rent Games

This collection is only for the games that are in the listing for renting. Once the game is borrowed, this entry will remain in the database but the listing will be removed from the available games page. Once the game is returned the entry will remain in the database but the availability of the game will depend on the lender.

1. "gameId": "XXXXXXXXXXXXXXXXXXXXX",
2. "rent" : 29.99
3. "duration" : # in days
4. "penalty" : #\$ per day after overdue
5. "lenderId": "xxxxxxxxxxxxxxxxxxxxxxxx",
6. "borrowerId": "xxxxxxxxxxxxxxxxxxxxxxxx",
7. "dateOfTransaction": "xxxx/xx/xx"

2 Core Features

Buy Games

This collection is only for the games that are in the listing for buying. Once the game is bought, this entry will remain in the database but the listing will be removed from the available games page.

1. "gameId": "XXXXXXXXXXXXXXXXXXXXX",
2. "sellerId": "xxxxxxxxxxxxxxxxxxxxxxxx",
3. "buyerId": "xxxxxxxxxxxxxxxxxxxxxxxx",
4. "price": 29.99,
5. "date": "xxxx/xx/xx"

2 Core Features

Comments

This collection will store comments of the users on the games.

1. "commentsID": "XXXXXXXXXXXXXXXXXXXXX",
2. "body" : "Actual comment body."
3. "userID" : User ID of the commenter
4. "gameID" : Game ID of the comment
5. "dateOfComment": "xxxx/xx/xx"}



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PART 03

Extra Features

3

Extra Features



Create Collectibles

The extra pages that list all of the collectibles users post.

Auctioning of Collectibles

Instead of purchase and sell, this feature allow users to bid for the collectibles.

Messages

Allow users chat to each other.

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PART 04

Questions

Who is the target user?

All game players and video game suppliers.



What value does the application bring the user?

Convenience and Transparency. Users directly make deals with other users. Also, the platform can bring game players together, allow them to discuss the topics they like.



Why is this project worthwhile to take on?

E-Commerce trending. The most incoming is the advertisements fees from the game developers. Since we do not charge users money, it will gather lots of users.



Who are the competitors? What makes this better?

Gamestop, BestBuy, Ebay, and any other stores like them.



THANKS

