

Project Report

The ∞ World (Gaming Store)



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8/4/2021

Abstract

TheInfinityWorld is the ecommerce website that provide the easy excess to the world greatest consoles and games of the two main companies that are PlayStation and Xbox. Here user can see the features of the consoles of both companies. The Games are also available for the gamer with the proper detail, trailer and the screenshots of the gameplays of the games which include almost all the games new as well as old and also games that won Game of The Year Award and their nominees' games. This is very easy for user to purchase this thing of this website.

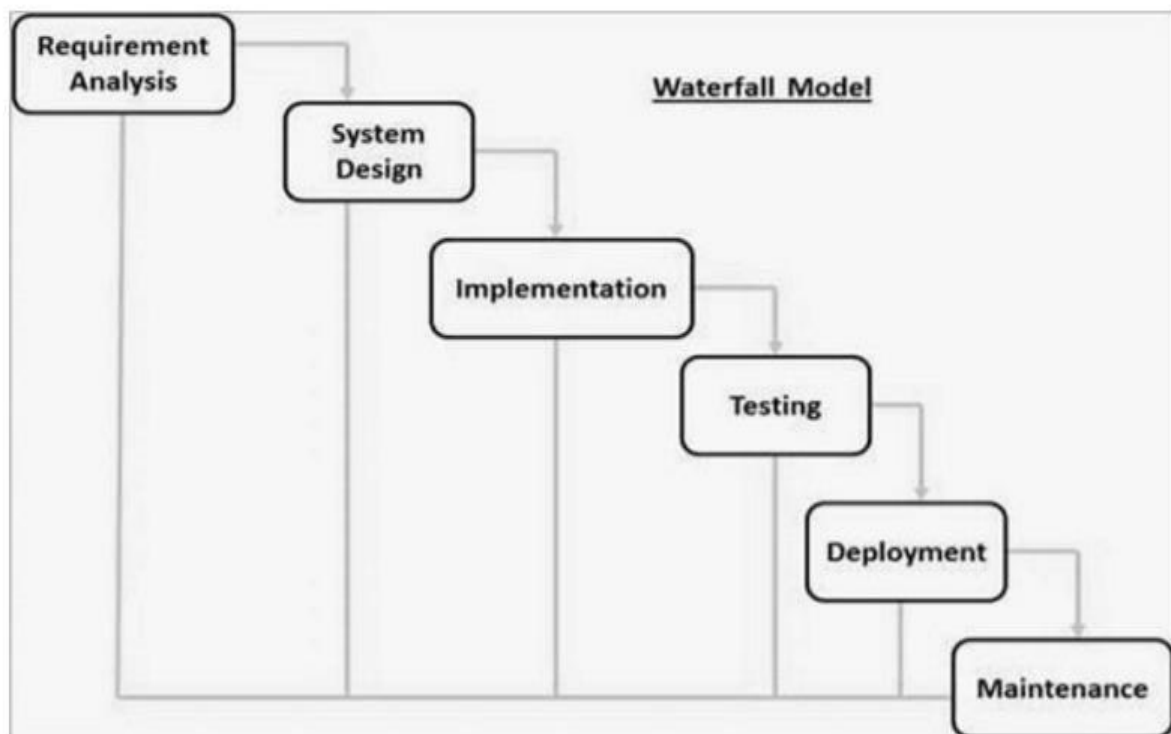
Introduction

The Scope of this project is to shrink the gap between the gamers and the market, improve and organize the whole process of buying, tracking and managing products for the customers. Provide a valuable shopping environment for both gamers and shopkeepers. Reduce manual payment processes, their errors by providing fully automated, a Reliable and secured payment transaction system.

Need of TheInfinityWorld

To create safe, regulated and responsible entertainment with a positive impact on society. Through our imagination, talent and technology, every day we 'play to win' – we drive to succeed as we efficiently manage and grow our business – to realize the full potential of responsible gaming by providing the most entertaining and best performing gaming experiences in the world.

Methodology Development Mode



The sequential phases in Waterfall model are

– Requirement Gathering and analysis – All possible requirements of the system to be developed are captured in this phase and documented in a requirement specification document.

- System Design – The requirement specifications from first phase are studied in this phase and the system design is prepared. This system design helps in specifying hardware and system requirements and helps in defining the overall system architecture.

- Implementation – With inputs from the system design, the system is first developed in small programs called units, which are integrated in the next phase. Each unit is developed and tested for its functionality, which is referred to as Unit Testing.

- Integration and Testing – All the units developed in the implementation phase are integrated into a system after testing of each unit. Post integration the entire system is tested for any faults and failures. 4

- Deployment of system – Once the functional and non-functional testing is done; the product is deployed in the customer environment or released into the market.

- Maintenance – There are some issues which come up in the client environment. To fix those issues, patches are released. Also to enhance the product some better versions are released. Maintenance is done to deliver these changes in the customer environment.

Tools and Technique

a)React JS

b)Node JS

c)MongoDB

d)Express JS

e)VS Code

f)GitHub

a) React JS

Respond (otherwise called React.js or ReactJS) is a free and open-source front-end JavaScript library for building UIs or UI segments. React can be utilized as a base in the development of single-page or versatile applications. However, React is only concerned with state management and rendering that state to the DOM, so creating React applications usually requires the use of additional libraries for routing, as well as certain client-side functionality.

b) NodeJS

Node.js is an open-source, cross-platform, back-end JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser. Node.js lets developers use JavaScript to write command line tools and for server-side scripting—running scripts server-side to produce dynamic web page content before the page is sent to the user's web browser.

c) MongoDB

MongoDB is a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas. MongoDB is developed by MongoDB Inc. and licensed under the Server Side Public License (SSPL). Accelerate development, address diverse data sets, and adapt quickly to change with a proven application data platform built around the database most wanted by developers 4 years running.

d) Express JS

Express.js, or simply Express, is a backend web application framework for Node.js, released as free and open-source software under the MIT License. It is designed for building web applications and APIs. It has been called the de facto standard server framework for Node.js. Express is the back-end component of popular development stacks like the MEAN, MERN or MEVN stack, together with the MongoDB database software and a JavaScript front-end framework or library.

e) VS Code

Visual Studio Code is a source-code editor made by Microsoft for Windows, Linux and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git. Users can change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality.

f) GitHub

GitHub is a web-based hosting service for version control using Git. It is mostly used for computer code. It offers all of the distributed version control and source code management (SCM) functionality of Git as well as adding its own features. It provides access control and several collaboration features such as bug tracking, feature requests, task management, and wikis for every project. GitHub offers plans for both private repositories and free accounts which are commonly used to host open-source software projects.

Web-Engineering framework activities

Communication

Document Purpose:

This software basically designed to facilitate our enthusiastic younger generation specially designed for gamers, a platform to buy different consoles and games at a cheap price that are prevailing everywhere in the market.

Scope:

The Scope of this project is:

- To shrink the gap between the gamers and the market, improve and organize the whole process of buying, tracking and managing products for the customers.

- Provide a valuable shopping environment for both gamers and shopkeepers.
- Reduce manual payment processes, their errors by providing fully automated, a Reliable and secured payment transaction system.

Modules: -----?

- User Profile
- Hands-on Labs
- Tasks
- Learning Material
- Blog
- Discord Section
- Leaderboard

Functional Requirements:

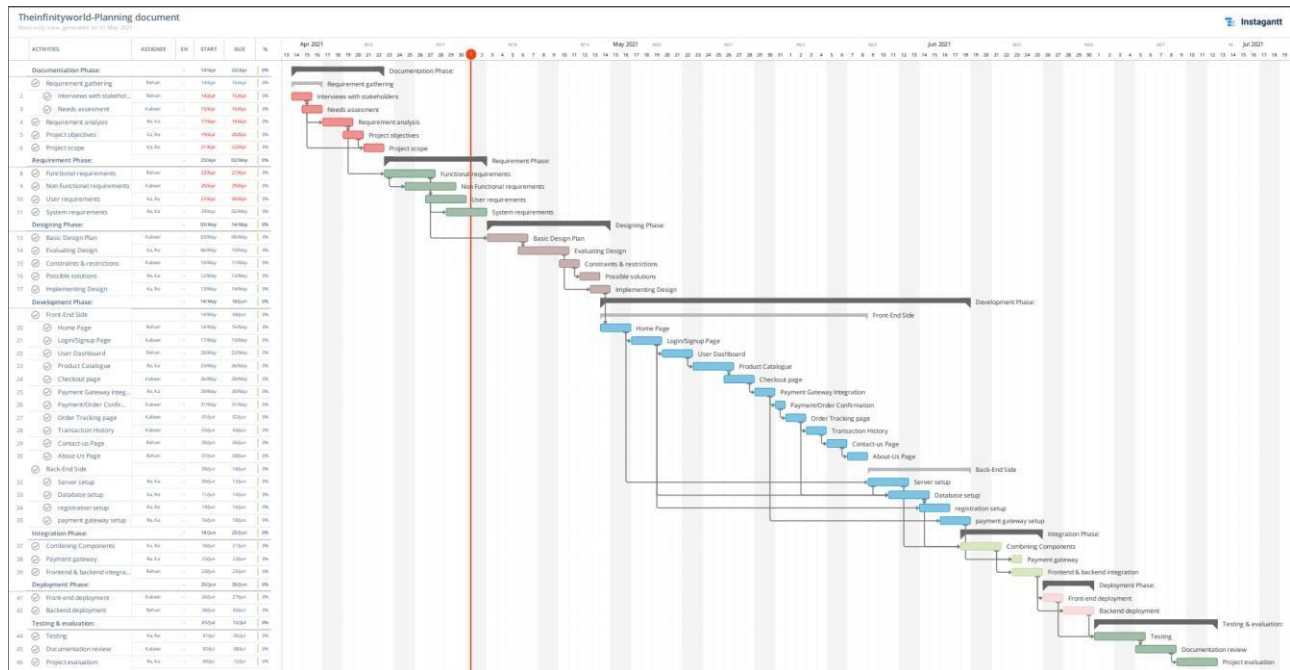
- **Sign In/Up:**
User Sign In and Sign Up functionality.
- **Payment Feature**
In order to facilitate the users, we provide live transaction service through payment gateway integration with proper security features and secured transactions.
- **Cart Functionality**
User can add game and game console to their buy-list by pressing “Add to Cart” Button.
- **Dashboard Facility**
Users logged in to their accounts have proper dashboard designed, showing their recent transactions and their favorites item packed in there.
- **Changing Password**
User can change their accounts password without logging out the session.
- **Database Connection**
All the transactions are recorded and stored properly with date & time in the database.
- **LogOut:**
User can log out after done with the shopping.

Non-Functional Requirements

- The website should be SEO (Search Engine Optimized).
- Information of all the Users on the website will be Secure.
- The website should be User Friendly.
- The website should be run on real time.

Planning:

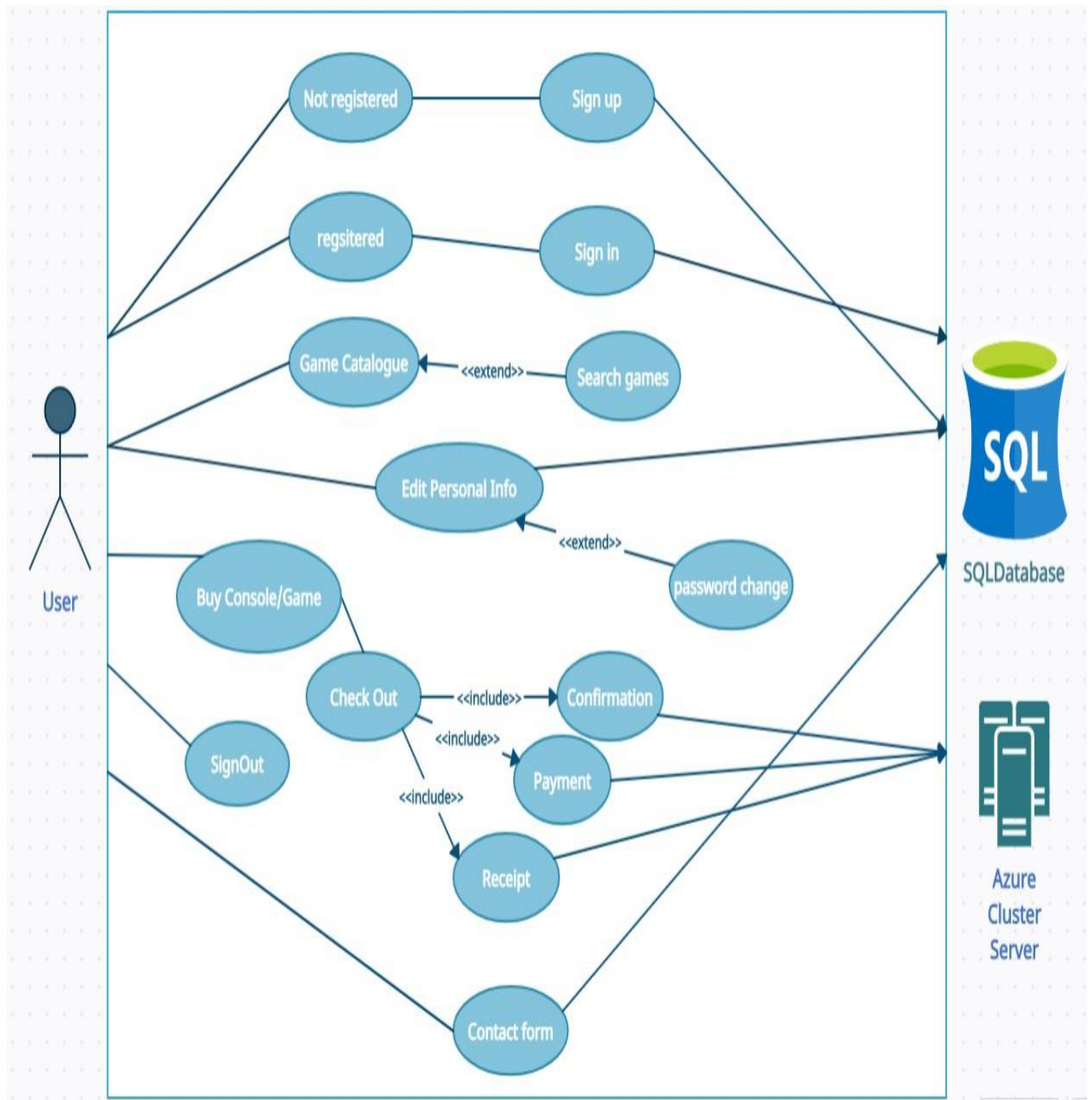
The plan of the semester project is scheduled in the Gantt chart. The chart also represents the interdependence of one task on another. Tasks have been assigned to the members equally. The chart is attached at the end of this document.



Modeling Activity:

Use case modeling is done in order to understand the project clearly. The use case diagram along with the usage scenarios is given below:

Use Case Diagram:



Usage Scenarios:

NAME: Sign in

SUMMARY: User Sign in to the system

DEPENDENCIES: Register

ACTOR: User

PRE-CONDITION:

A Sign in page for users to Sign in to their account.

FLOW OF EVENTS:

- The user enters username and password to Sign in to their account.
- The system validates the user and he/she is redirected to home page.

ALTERNATIVES:

If the system does not recognize the entered Email or password, a message will be displayed and the system will prompt the user to re-enter the Email and password.

POST-CONDITION:

The Email & password has been validated and the user will be redirected to home page.

NAME: Register

SUMMARY: User makes his account

DEPENDENCIES: None

ACTOR: User

PRE-CONDITION:

A Signup page is displayed for user to make his account.

FLOW OF EVENTS:

- The user enters first-Name, last-Name, username, email, and password.
- The system will store all the information in the database.

ALTERNATIVES:

If the username or Email already exist then an error message will be displayed.

POST-CONDITION:

A message will be displayed “Account created Successfully” and the user can now redirect to sign in page.

NAME: Search Game

SUMMARY: User can search their specific game from the games Catalog.

DEPENDENCIES: Sign in

ACTOR: User

PRE-CONDITION:

A Game Catalogue page is displayed for user to search the game.

FLOW OF EVENTS:

- The user enters Name of the Game and press Enter.
- The system will show all the information of games Similar to the entered name from the database.

ALTERNATIVES:

If the user cannot find their game, then user can scroll down to find their game in Game Catalogue page.

POST-CONDITION:

User will see all the information of games Similar to the entered name.

NAME: Change Password

SUMMARY: The user can change his password

DEPENDENCIES: Sign in

ACTOR: User

PRE-CONDITION:

The change password section will be displayed on Dashboard page.

FLOW OF EVENTS:

- The user will enter his current password.
- Then the user will enter his new password.

ALTERNATIVES:

If the user is not signed in, then he/she cannot access the Dashboard page.

POST-CONDITION:

The user will click on “Save Password” button to change his password.

NAME: Payment

SUMMARY: The user will give detail to pay for the game/console.

DEPENDENCIES: Sign in

ACTOR: User

PRE-CONDITION:

The user will be displayed with Payment page by clicking on “Checkout” button.

FLOW OF EVENTS:

- The user will give the detail/way of the payment.
- Then the user will pay for the game/console.

ALTERNATIVES:

If the user is not added anything in cart, then he/she cannot access the payment page.

POST-CONDITION:

After paying the payment, user is redirected to the receipt page.

NAME: Receipt

SUMMARY: The user will get the receipt of their payment.

DEPENDENCIES: Payment

ACTOR: User

PRE-CONDITION:

The user will be displayed with receipt page.

FLOW OF EVENTS:

- The user will see the receipt on receipt page.
- The user can download his/her receipt copy.

ALTERNATIVES:

If the user did not pay the payment, then he/she cannot access the receipt page.

POST-CONDITION:

After submitting the form, the form is stored in database.

NAME: Contact us

SUMMARY: The user can send their problems to system.

DEPENDENCIES: Sign in

ACTOR: User

PRE-CONDITION:

The user will be displayed with Contact us page.

FLOW OF EVENTS:

- The user will fill the contact us page form.
- Then the user will Submit the form.

ALTERNATIVES:

If the user is not signed in, then he/she cannot access the Contact us page.

POST-CONDITION:

After submitting the form, the form is stored in database.

NAME: Sign out

SUMMARY: The user will be signed out of his account.

DEPENDENCIES: Sign in

ACTOR: User

PRE-CONDITION:

The sign out button will be present on the profile image on the navbar.

FLOW OF EVENTS:

- The user will click on the logout button.
- The user's current session will be destroyed.

ALTERNATIVES:

If the user is not logged in, then he cannot click the logout button.

POST-CONDITION:

The user will be redirected to the sign in page.

Construction:

We performed the following the Iterations:

1st Iteration: In the 1st iteration all the analysis and communication was done. All the requirements were defined and SRS was made. All the main functionalities of the product were highlighted.

2nd Iteration: All the scheduling for the project (Gantt chart) was done and the required models (EERD and Use Case models) were developed.

3rd Iteration: We developed the front end of the TheInfinityWorld using client side technologies. The front end development was completed in three shifts for three different scenarios.

4rd Iteration: The database and tables required were developed and the back end was developed using appropriate server side technology.

5th Iteration: Once the website was developed and thoroughly tested, it was deployed

Core Functionalities:

TheInfinityWorld was developed using client and server side technologies as mentioned later in 'Tools and Technologies'. The core functionalities constructed were according to different scenarios of Subscribed Client (Users who could Log in directly as they had already signed up) , Unsubscribed Client (Users who could not Continue without Sign In).

Sign In/Sign Up Page:

Sign In/Sign Up: The User can login into the system with a valid user ID and password. If a new user login into the system, the user shall first sign up. Once a user login into the system, then user can purchase the consoles and Games.

Home page:

The home page where user see the highlighted games and consoles of different platforms and also the see the services that TheInfinityWorld Provide to them. The reviews are also shown and the home page.

PlayStation Console Page:

The user can excess this page through the button "PlayStation Console" on Navbar, where user can see all the features and the different displays of the PlayStation Console and the user can purchase PlayStation console and their controllers by clicking on the "Add to Cart" button.

Xbox Console Page:

The user can excess this page through the button "Xbox Console" on Navbar, where user can see all the features and the different displays of the Xbox Console and the user can purchase Xbox console and their controllers by clicking on the "Add to Cart" button.

PlayStation Games Page:

The user can access this page through the button "PlayStation Games" on Navbar, where user can see all the details, their trailer and the different Screenshots of the Gameplays of the PlayStation Games. The user can purchase PlayStation Games by clicking on the "Add to Cart" button.

Xbox Games Page:

The user can access this page through the button "Xbox Games" on Navbar, where user can see all the details, their trailer and the different Screenshots of the Gameplays of the Xbox Games. The user can purchase Xbox Games by clicking on the "Add to Cart" button.

Team Page:

The user can access this page through the button "Team" on Navbar, where User see the detail about the developers of TheInfinityWorld and the mission and vision of the TheInfinityWorld. The user can contact with the founders by filling the form on team page.

Cart Page:

The user can access this page through the cart icon on Navbar, where user see the product which was added to cart there the total cost of order will also displayed.

Shipping Page:

The user can access this page through the cart icon on Navbar, where user see the product which was added to cart there the total cost of order will also displayed.

Deployment:

We have deployed our front-end on Netlify, back-end and Database on Heroku

Netlify

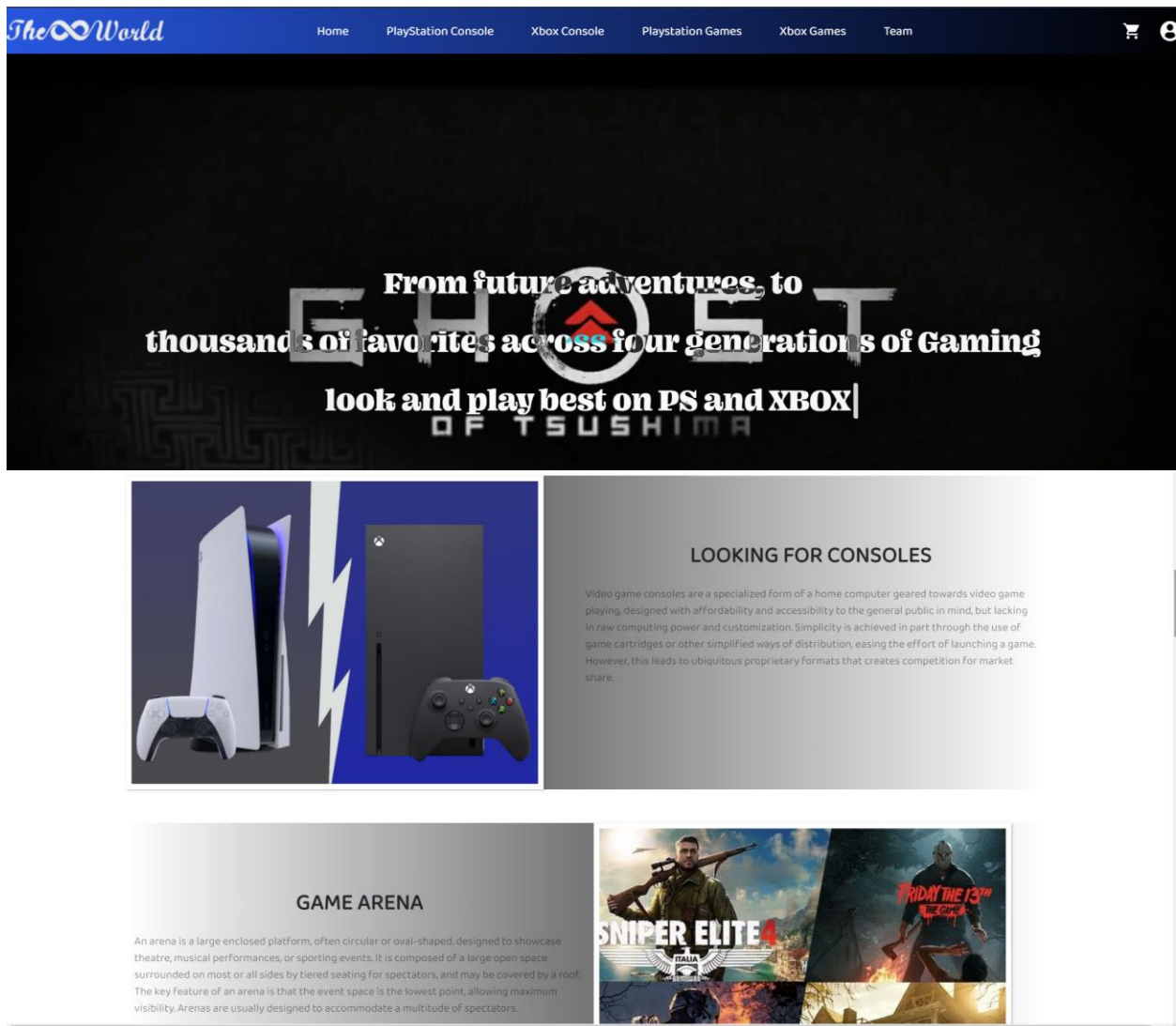
Netlify is a San Francisco-based cloud computing company that offers hosting and serverless backend services for web applications and static websites. The company provides hosting for websites whose source files are stored in the version control system Git and then generated into static web content files served via a Content Delivery Network. Given the limitations of the purely static model, the company later expanded services to include content management systems, and features of serverless computing to handle websites with interactive features.

Heroku

Heroku is a cloud platform as a service (PaaS) supporting several programming languages. One of the first cloud platforms, Heroku has been in development since June 2007, when it supported only the Ruby programming language, but now supports Java, Node.js, Scala, Clojure, Python, PHP, and Go. For this reason, Heroku is said to be a polyglot platform as it has features for a developer to build, run and scale applications in a similar manner across most languages. Heroku was acquired by Salesforce.com in 2010 for \$212 million.

Relevant Snapshots of the web application development:

Homepage



Latest Hot Games Are Out Now ! Check Out The Games Catalogue



Reviews Time

So i pre-ordered Rise of the Tomb Raider from this site, since they seemed to be the only place that had the steam pre-order items with it. Today(2 days af the pre order placement) i noticed they removed the text with "Pre-Purchase now to get the pre order bonuses, bla bla bla". And they deleted this text without notifying me about it. So i contacted the support to cancel my order. The site itself is nice and easy, and my support ticket was answered within 2 hours. I am willing to give 4 ratings

★★★★



Nathan Drake

Gamer / Teenager

One of the best websites I've ever bought from. Their support will literally meet any of your needs, and is always trying to do right by you. This is not some greedy website, and they respect the money you put into them, and treat it like an investment. I definitely would recommend this site to anyone looking for a fast, easy, and inexpensive way to boost yourself to a level 30 account. Extremely happy with my purchase, and the price and service couldn't be better. +1 respect.

★★★★



Natalia Ferma

Enthusiastic Gamer

I have to say that game is the greatest store for games, consoles and any other equipment that goes along with them. My latest purchase from them is a PS5 console, the pre-order was easy and the collection just as good. All this after searching for one everywhere. But Game came through for me and I am very pleased to obtain one from them. Something I always wanted to do. I want to send a very big thank you to all the staff, with another big thanks to Scott who helped me from the start.

★★★★



Helena Dunk

Sales manager

Excellent service when trading in a games console, then when return to sort out a unrelated matter the salesperson was knowledgeable and despite a problem with the company's servers sorted out a solution which meant I did not have to revisit the shop. would also like to point out the website aftersales service is also second to none as a 'lost' in transit' game costing \$50 was replaced and dispatched as 'one day delivery' without quibble. I can say "This is very nice site"

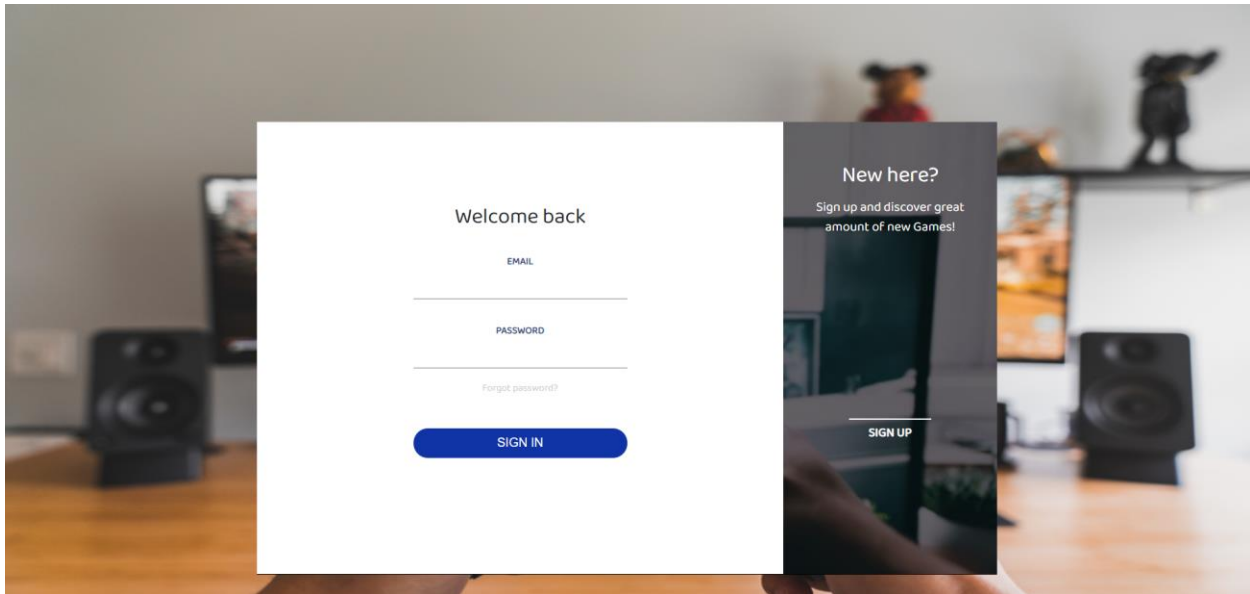
★★★★



Federick Richard

Corporate Manager

User Sign In /Sign Up:



The image shows a user interface for signing in or signing up, overlaid on a blurred background of a desk with speakers and a monitor. The interface is split into two panels. The left panel, titled "Welcome back", is white and contains fields for "EMAIL" and "PASSWORD", a link for "Forgot password?", and a blue "SIGN IN" button. The right panel, titled "New here?", is dark grey and contains the text "Sign up and discover great amount of new Games!", a horizontal line, and a "SIGN UP" button.

Welcome back

EMAIL

PASSWORD

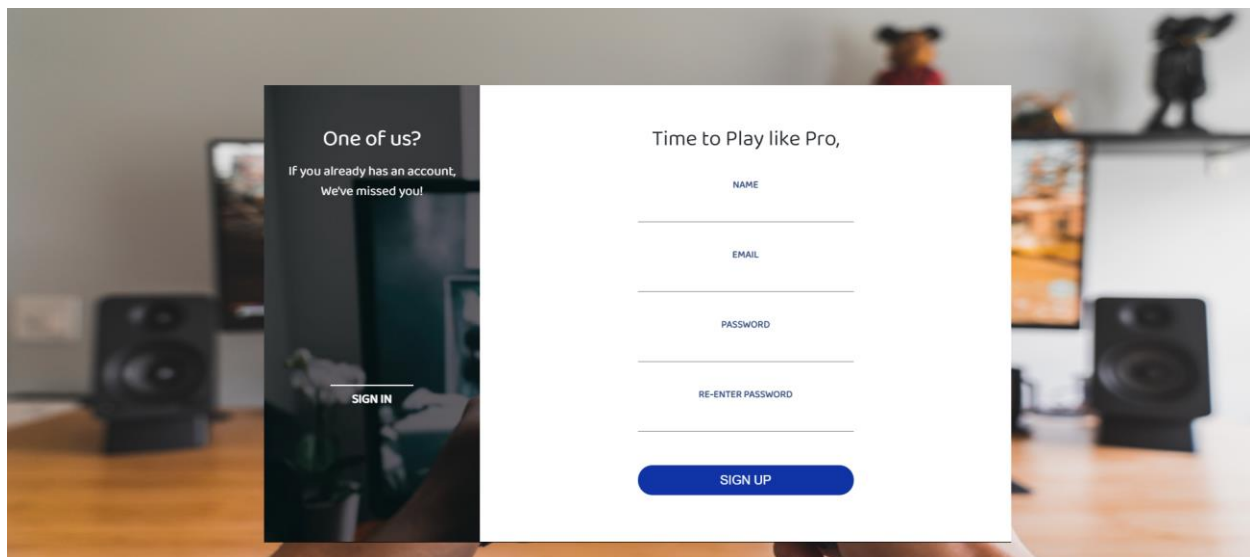
[Forgot password?](#)

SIGN IN

New here?

Sign up and discover great amount of new Games!

SIGN UP



The image shows a user interface for signing in or signing up, overlaid on a blurred background of a desk with speakers and a monitor. The interface is split into two panels. The left panel, titled "One of us?", is dark grey and contains the text "If you already has an account, We've missed you!", a horizontal line, and a "SIGN IN" button. The right panel, titled "Time to Play like Pro,", is white and contains fields for "NAME", "EMAIL", "PASSWORD", and "RE-ENTER PASSWORD", and a blue "SIGN UP" button.

One of us?

If you already has an account, We've missed you!

SIGN IN

Time to Play like Pro,

NAME

EMAIL

PASSWORD

RE-ENTER PASSWORD

SIGN UP

PlayStation-Console Page:





The PS5 has three USB-A ports — one on the front, two on the back — and one USB-C port on the front. There's also an Ethernet port on the back of the console and 802.11ax Wi-Fi (aka Wi-Fi 6). All of that hardware is packed into the biggest game console in modern history

There are some snaps for the walk-through of the PS5 and its galleries, checkout below !



Sony - PlayStation 5 Console

Model : 3005718 SKU : 6426149

Release Date : 11 / 12 / 2020



\$ 499.99

ADD TO CART



DualSense™ Wireless Controller

Model : 44768 SKU : 6486149

Release Date : 30 / 10 / 2020



\$ 74.99

ADD TO CART

Xbox-Console Page:





Ray tracing

Immerse yourself in worlds with a new level of realism as rays of light are individually simulated, creating true-to-life shadows and reflections in supported XBOX games.



Up to 120fps with 120Hz output

Enjoy smooth and fluid high frame rate gameplay at up to 120fps for compatible games, with support for 120Hz output on 4K displays.



8K support

The XBOX X console is compatible with 8K displays through HDMI 2.1 support.



Microsoft - XBOX SERIES X

Model : 0031718 SKU : 000149

Release Date : 22 / 08 / 2020



\$ 529.99

[ADD TO CART](#)



DualSense™ Wireless Controller

Model : 000768 SKU : 000149

Release Date : 22 / 10 / 2020



\$ 104.99

[ADD TO CART](#)

Games Page:

SAN MATEO
STUDIO



INSOMNIAC
GAMES



NAUGHTY DOG



pixelopus



JAPANStudio

PLAY STATION 5: PLAY HAS NO LIMITS










Aliens: Fireteam Elite - Pre-Order Trailer | PS5, PS4

Watch later Share



Aliens Fireteam Elite

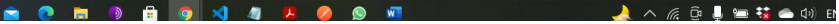
Rating: ★★★★★

Platform PlayStation 5

Aliens: Fireteam Elite is an upcoming multiplayer third-person shooter game developed by Cold Iron Studio in collaboration with Disney's 20th Century Games. It is the first Alien game since Alien: Blackout and is a

Watch on YouTube

Screenshots of Gameplay



Team Page:

OUR Team !

REHAN MUMTAZ

~ Founder



Meet Rehan , The founder of the startup Infinty Games . He is a web developer who loves to work in design besides he is top not cyber-sec professional who is soleley active in penetrating web-based applications and recognizable entity among some of the great organizations of the world. He is smart enough to point out flow in web applications . He loves to work for external pentest, anyone willing to take his services can contact him via email



KABEER AHMED

~ Founder

Kabeer Ahmed is an undergraduate student of Software Engineering, as a game developer, he truly love games. He doesn't just like playing games, he also like understanding games. He enjoy the concept of dissecting a game, breaking it down into smaller parts, and visualizing how the pieces fit back together. He is a programmer because "The programmer is the heart of the game. Without the programmer, there is no game" (Gruber).

He has a vast experience of game development and side by side an enthusiastic gamer who have worked for the following firms and their usual customer



Contact Us



Street # 101 Block T1-A
Near Birmingham Stadium
Islamabad



kunghu@infintygames.com



+ 92 2211545 545

Send Us A Message

First Name

Last Name

Email Address


Please enter a message


Send

Cart Page:

The ∞ World

[Home](#)[PlayStation Console](#)[Xbox Console](#)[Playstation Games](#)[Xbox Games](#)[Team](#)

1




Shopping Cart

Price

Subtotal (1 items) : \$ 54.04

Proceed to Checkout



Aliens Fireteam Elite

Qty:

1


Delete

\$54.04

Shipping Page:

The ∞ World

[Home](#)[PlayStation Console](#)[Xbox Console](#)[Playstation Games](#)[Xbox Games](#)[Team](#)

1

Masir

Sign-In

Shipping

Payment

Place Order

Shipping Address

FullName

Rehan Mumtaz

Address

1-D 1/11 Nazimabad #1 , near sir syed Lawn ,Karachi, Pakistan

City

Karachi

Postal Code

74500

Country


Pakistan

Continue

Payment method Page:

The∞World

[Home](#)[PlayStation Console](#)[Xbox Console](#)[Playstation Games](#)[Xbox Games](#)[Team](#)

1

Masir ▾

Sign-In

Shipping

Payment

Place Order

Payment Method

☒ PayPal


☐ Stripe

Continue

Checkout Page:

The∞World

[Home](#)[PlayStation Console](#)[Xbox Console](#)[Playstation Games](#)[Xbox Games](#)[Team](#)

1

Masir ▾

Sign-In

Shipping

Payment

Place Order

Shipping

Name:

Rehan Mumtaz

Address:


1-D 1/11 Nazimabad #1, near sir syed Lawn ,Karachi, Pakistan,Karachi, 74500,Pakistan

Payment

Method:

PayPal

Order Items



Aliens Fireteam Elite

1x \$54.04 = \$54.04

Order Summary

Items	\$54.04
Shipping	\$10.00
Tax	\$8.11
Order Total	\$72.15

Place Order

Order generate Page:

Order 610ae445ea1d00509c6daab9

Shipping

Name:

Rehan Mumtaz

Address:

1-D 1/11 Nazimabad #1, near sir syed Lawn,Karachi, Pakistan,Karachi, 74500,Pakistan

Not delivered

Payment

Method: PayPal

Not Paid

Order Items



Aliens Fireteam Elite

1 x \$54.04 = \$54.04

Order Summary

Items	\$54.04
Shipping	\$10.00
Tax	\$8.11
Order Total	\$72.15

PayPal

Pay Later



User-Update profile:

User Profile

Name

Masir

Email

admin@example.com

Password

Enter password

confirm Password

Enter confirm password

Update

Order-history

Order History

ID	DATE	TOTAL	PAID	DELIVERED	ACTIONS
610948f5849597a304889f54	2021-08-03	661.23	No	No	Details
61097bea9f53f0a1bc5046a9	2021-08-03	574.99	No	No	Details
61097c3c9f53f0a1bc5046ac	2021-08-03	574.99	No	No	Details
61097cba9f53f0a1bc5046af	2021-08-03	574.99	No	No	Details
6109a44c9f53f0a1bc506c82	2021-08-03	574.99	No	No	Details
610a0056cc1465765863c8ba	2021-08-04	609.49	2021-08-04	No	Details
610a1166eb57b96020bbadfa	2021-08-04	96.24	2021-08-04	No	Details
610a1da6eb57b96020bbae07	2021-08-04	574.99	2021-08-04	No	Details
610a1e42eb57b96020bbae0f	2021-08-04	96.24	2021-08-04	No	Details
610aa754b530f856ccd01d79	2021-08-04	120.74	2021-08-04	No	Details
610aa81fb530f856ccd01d88	2021-08-04	114.45	2021-08-04	No	Details
610ae445ea1d00509c6daab9	2021-08-04	72.15	No	No	Details

Client-Side:

<http://theinfinityworld.netlify.app/>

<http://theinfinityworld.me/>

Server-Side: <https://whispering-brook-43539.herokuapp.com/>

GitHub Repo: <https://github.com/RehanMumtaz123/uni-2.0.git>