

THE GAMING ZONE

User Guide

307378 - 310308

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Software Manual, May 2022

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SOFTWARE DESCRIPTION

THE GAMING ZONE website version 1.0 provides tools for the sale of videogames with Ethereum Blockchain.

Description

THE GAMING ZONE allows users to browse and purchase any game from a huge library of games paying with Ethereum. The payment will be sent to the Smart Contract, which acts as a wallet. The admin can withdraw the money from the Smart Contract and/or check its balance. The admin can also add and remove games from the database.

Technologies used:

- I. <u>Basics</u>: HTML5, CSS3, JavaScript
- II. Front-end: Bootstrap 5, jQuery, AngularJS
- III. <u>Back-end</u>: Node.js, Express.js, Axios, Mongoose
- IV. <u>Database</u>: MongoDB, IGDB API
- V. <u>Blockchain</u>: Solidity, Ganache (for testing purposes), Web3.js, Ethers.js, MetaMask

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1

CREDENTIALS & SETUP

• TGZ mail default credentials for the customer support: **Email address**: mail.thegamingzone2022@gmail.com

Password: thegamingzone

• Admin default credentials:

Username: marino **Password**: password

For turning someone into an admin, simply change the "admin" field in the MongoDB into "true" instead of "false".

In order to create a user account, you need to provide an ACTUAL email address upon registration. The verification mail and product keys will be sent there.

• You can still try to use a default user by logging in as:

Username: mariuncolo Password: password

You will not receive any email though.

In order to purchase a game, check the balance and/or withdraw ETH, you need to download and install the MetaMask extension. If you use Edge or Chrome, you can do it from here: https://chrome.google.com/webstore/detail/metamask/nkbihfbeogaeaoehlefnkodbefgpgknn?hl=en

In order to be able to use the IGDB API, you need a Client ID and a Client Secret. In order to obtain them, you need a Twitch Account and follow the instruction on https://api-docs.igdb.com/#account-creation. The file server.js already provides both working Client ID and Client Secret. If you want to change them into yours, edit the line 18 of the server.js file.

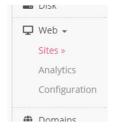
When you deploy the Smart Contract, it will have its own address on the Blockchain. Therefore, you need to edit the <u>line 2</u> of the <u>payment.js</u> file (inside the "js" folder), changing it into the new Smart Contract address. Please note that only the owner of the Smart Contract can withdraw.

The project currently uses a default MongoDB from Atlas. For changing it into yours, simply edit the <u>line</u> 12 of the <u>server.js</u> file. You can create an Atlas account and put your URI there.

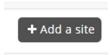
Note: in this section we are going to use the web hosting http://alwaysdata.com/, but feel free to use any other web hosting you wish.

How to host the website on AlwaysData:

- 1) Create an account at http://alwaysdata.com/ and login.
- 2) On the left, click on "Sites"



3) Then click on the "Add a site" button



4) Fill up the form as displayed below. Note that instead of "scascian2.alwaysdata.net", you have to put your own address. In the configuration form there is also written the port used (in this case 8100). If it's different than 8100, you have to edit the last line of the file "server.js" and change 8100 into the port your AlwaysData uses. You need to also change the lines:

16, on server.js and 16, on routes.js (inside the js folder): you have to change that url into your own address.



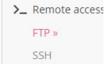
5) Click on "SSL" on the top and make sure that "Force HTTPS usage" is checked.



6) Then press the submit button



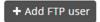
7) Access to your AlwaysData website via FTP. Scroll down and on the left click on "FTP"



8) You can see your FTP address; you will need it later.

FTP host: ftp-scascian2.alwaysdata.net

9) Click on "Add FTP user" (top-right)



10) Set the name and the password, then hit the submit button (do not touch the "root directory" field)



11) You can now access to AlwaysData via FTP. You can download (https://filezilla-project.org/download.php?platform=win64) and use FileZilla for making the things easier. If you do that, you will need the following credentials for accessing to your website via FTP:

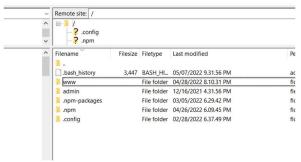
| Host: | <u>U</u> sern | Pass <u>w</u> ord | l: <u>P</u> ort: | Quickconne | ect 🔻 |
|-------|---------------|-------------------|------------------|------------|-------|
| | | | | | |

Host: ftp-<your site>.alwaysdata.net (the FTP address at step 8)

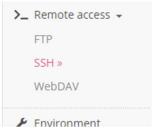
Username: the name of the FTP user **Password**: the password of the FTP user

Port: 21

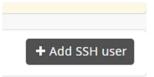
- 12) Click "Quickconnect". If it asks to trust the certificate, check "always trust certificate in future sessions" and then press OK.
- 13) You can now see the folders and websites of AlwaysData. Now open the "www" folder and simply drag and drop the files from the folder containing the TGZ website



14) Now go back to AlwaysData and on the left, scroll down and click SSH



15) add the SSH user just like you did with the FTP



16) When you are done, click on the "Web" link near the SSH address



17) Enter your credentials for signing in

```
ssh1 login: scascian2
Password:
Linux ssh1 5.15.32-alwaysdata #20220329 SMP Tue Mar 29 07:39:46 UTC 2022 x86_64

* Any process using too much CPU, RAM or IO will get killed

* Any process running for too long (e.g. days) will get killed

* If you want to have cron jobs, use scheduled tasks: https://help.alwaysdata.com/en/tasks/

* If you want to have processes running 24/7, use services: https://help.alwaysdata.com/en/services/
Last login: Sat May 7 21:24:49 2022 from 2a00:b6e0:1:50:1::1
scascian2@ssh1:~$
```

- 18) Now move to the "www" folder by typing "cd www" and press enter. You are now in the project main folder. Type "npm install" and hit enter in order to install all dependencies.
- 19) Now go back to the AlwaysData main page, go back to the "Sites" page and press the restart button on the right



20) The website should now work, congratulations!

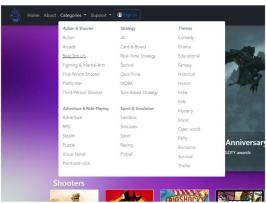
Note: if the website still does not work, check the logs (near the restart button), there might be some modules that were not installed with npm install, you can install them manually by going to the SSH (step 16-17), to the "www" folder, typing npm install <name module> and hitting enter for each of the module that wasn't installed.

2 USER

A. Browsing Games



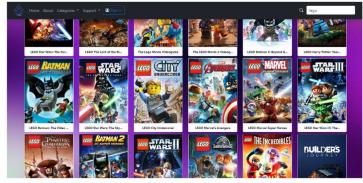
1. This is the home page, here the user can already quickly browse a few games and categories.



2. The user can also open the 'Categories' menu and choose their favorite category or theme.



3. The game search can also be done by using the search bar, typing a game's name.

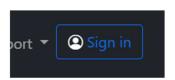


4. The website will display all the results (if there are any).



5. By clicking on a game, the user can see all game's information. However, in order to add the game to the cart, the user must have an account and be logged in.

B. Creating an Account



1. Click on the Sign in button in order to access to the Sign in/Sign up page.



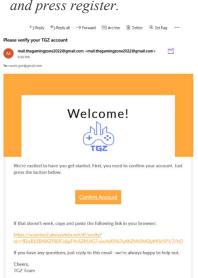
2. Click on Sign Up for creating an account.



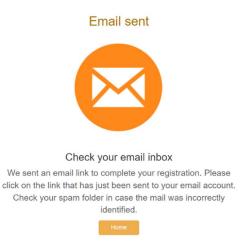
3. You will now see the Sign Up form.



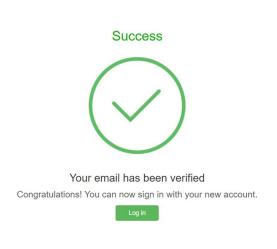
4. Fill it up with your information and press register.



6. Open the email you have received and press the Confirm Account button.



5. You will now receive an email address for the email verification

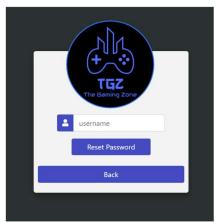


7. Congratulations! You have now successfully created and verified your new account.

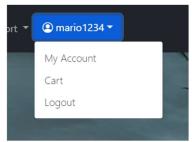
C. Purchase your first game



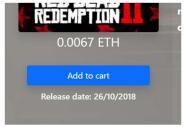
1. Go to the login page and enter your credentials.



2. In case you have forgotten your password, you can click on "Forgot your password?", enter your username and follow the instructions.



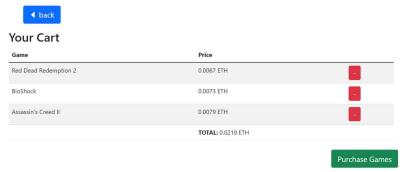
3. Once you are logged in, you will be able to see your user menu. You can manage your profile information and see the purchase history by clicking on "My Account"; go to the cart and purchase games by clicking on "Cart" and logout by clicking "Logout".



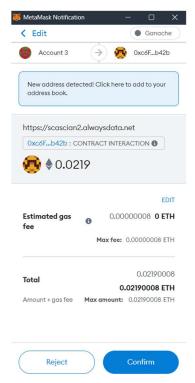
4. Click on the game you wish to purchase and click on the "Add to cart" button.



5. The game is now in your cart. You can add other games as well if you wish.

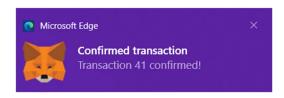


6. Open the user menu and go to the Cart. Here you can see the list of the Games in your cart with their prices and the total price. You can remove A game from the cart by clicking on the red button on the right. For purchasing All the games in your cart, click on the green button "Purchase Games". Makes sure you have the MetaMask extension installed on your browser.

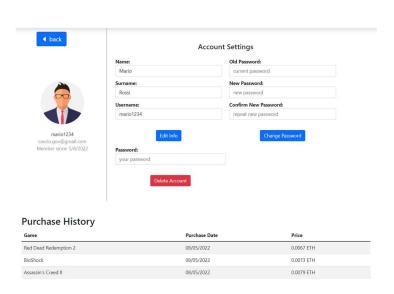


7. The MetaMask window will show up asking to confirm the transaction. Click on "Confirm" to proceed with the payment and purchase the games.

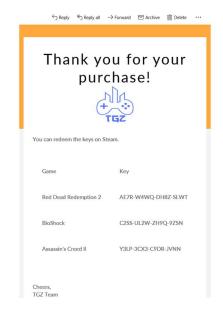




8. Once the transaction is completed, you will receive a notification from the website and one from MetaMask confirming the transaction.
An email with the game's product keys has been sent to your email address.

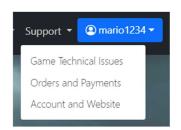


9. The games will also be added to your purchase history. You can check it anytime by clicking on "My Account" from the user menu. Remember that you can always change your name, surname, username, password and delete your account from this window.

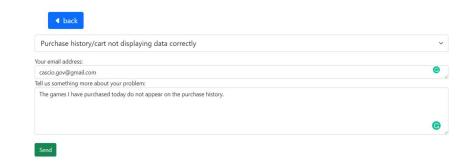


10. Check the email that has been sent to you after the transaction. Congratulations! You have successfully purchased the games from TGZ, you can redeem the keys on Steam by opening "Open a Product on Steam" and entering the codes.

D. Customer Support



1. If you need help, you can Access to the customer Support service by opening The "Support" menu and Selecting the type of problem You have.



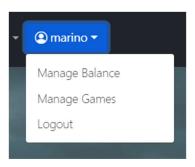
2. Then fill up the form and a staff will send a reply to your email address guiding you to the solution of your problem

3

ADMIN – Manage Balance & Games



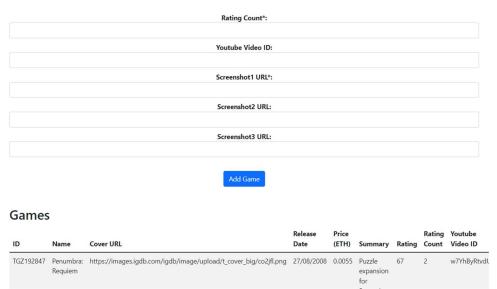
1. Sign in entering your credentials at the sign in page and press Login.



2. Once you are logged in, you will be able to see your admin menu. You can either manage the balance in the smart contract or manage the games in the database.



3. By clicking on "Manage Balance", this window will be displayed. Here you can withdraw all of ETH into your address (by using MetaMask) or refresh the balance in order to have the most up to date value.



4. By clicking on "Manage Games", this window will be displayed. Here you can see all the games in the TGZ database with their details. The table can be also scrolled horizontally, the remove button is in the last column on the right, by pressing it you are going to permanently delete a game from the database. You can also add a game to the database by filling up the form, the fields marked with a "*" are mandatory. The games in the TGZ database will also appear when a user attempts to look for a game.