

EalyNexus as an Effective Social Networking Website for Play-To-Earn Games

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Abstract – Play-to-earn games (P2E) have become more popular today and a lot of people are hunting for scholars or scholarships using different platforms. The researchers suggest making a social networking website designed for P2E to avoid frauds and scams. EalyNexus aims to provide employment in the crypto industry for individuals who are unemployed. It helps users to earn and provide for their necessities. Thus, knowing the future of play to earn industry and its economic impact on third-world countries, it is hereby suggested to have a secured and quality platform for the play-to-earn industry in which EalyNexus offers.

Index Terms – Scholarship, Scholar, Manager, Social Networking, Crypto, P2E

1. Introduction

The play-to-earn games have become popular these days and it is part to the modern life of some people. However, in some third-world countries like Philippines, it is quite difficult to maintain and avoid frauds and scams [1].

Play-to-earn games helps in many ways, it helps provide a work to those who are unemployed. It helps many unemployed people to earn and provide necessities. This app helps the consumers feel confident to use the app because they know that it is developed utilizing blockchain technology. This app helps to grow the community and its economic impact on third-world countries [2].

2. Methodology

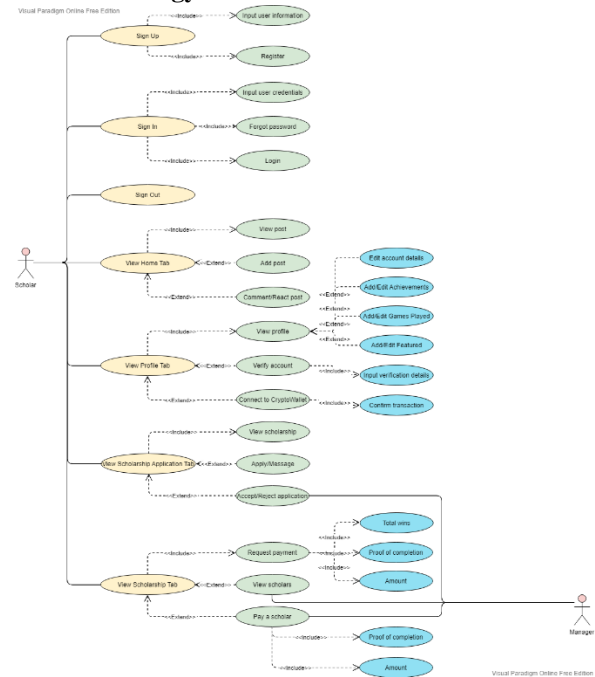


Figure 1. Use case of the proposed application

The illustration above (Fig 1) shows the list of actions a user can perform when using the EalyNexus platform. It contains Scholarship Hunting, Scholar Hiring, as well as Profile Verifying, Protection Fee, and Scholar-Manager Transaction. The platform also has a social media-like feature where users can share their thoughts.

2.1 Scholarship Hunting

In the View Scholarship Application Tab, users can view all the scholarship offers and apply to what they want. The user will then submit a proposal and wait for the manager's response. A notification will be sent to the user.

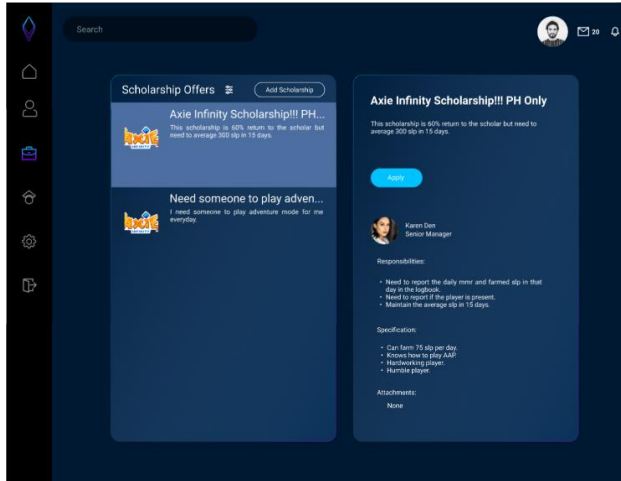


Figure 2. Scholarship Application Tab

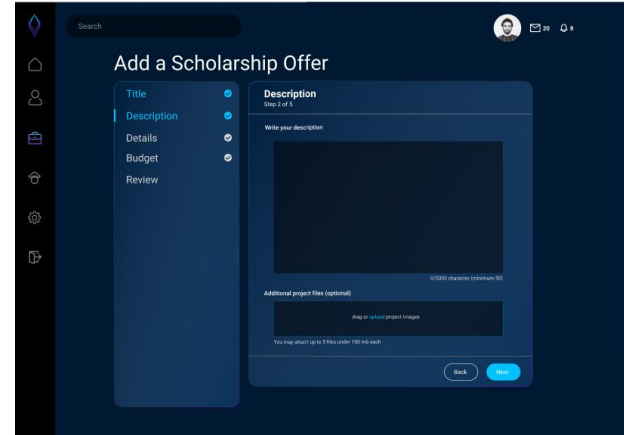


Figure 4. Add a scholarship offer

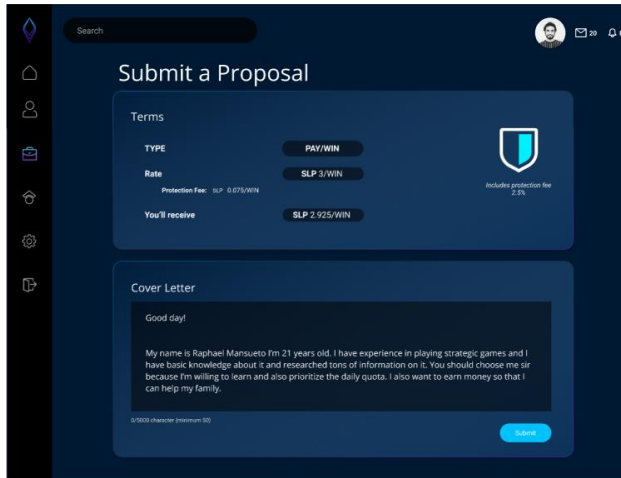


Figure 3. Submit a proposal

2.2 Scholar Hiring

In the View Scholarship Application Tab, managers can add a scholarship offer. The manager will input the title, description, details, and the budget of the scholarship. The manager can also accept or reject an application.

2.3 Profile Verifying

Users have additional verification in the profile tab which can ensure other users to trust their profile. Moreover, the verification requires a valid ID with its corresponding details. Submission to this verification will undergo processing to make sure that the details that are submitted are not fake.

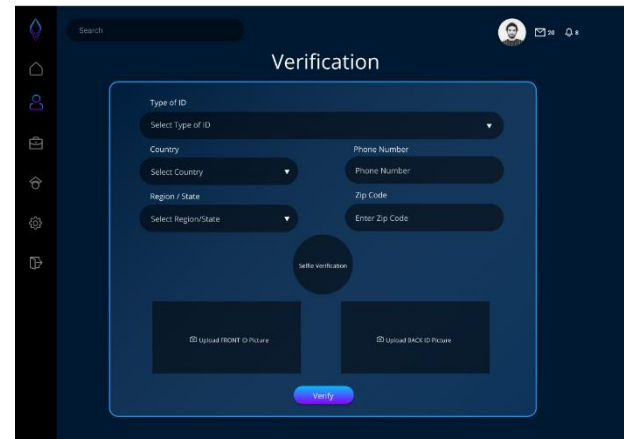


Figure 5. Verification

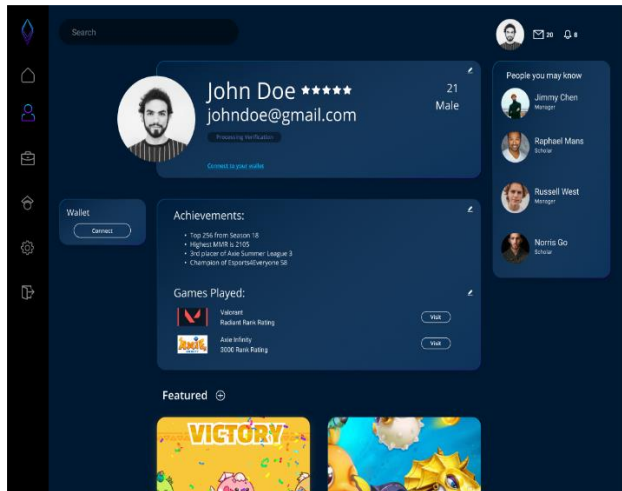


Figure 6. Profile Tab

2.4 Protection Fee

The Protection Fee will serve as the security for all the transactions that the user made. The protection fee will cost 2.5% of the agreed rate in the proposal and it will automatically be computed during a transaction. See Figure 3.

2.6 Users Transaction

The user's transaction will show the details of the user's payment. The user will input a scholarship name, description, type of payment, rate and upload an image of proof of completion.

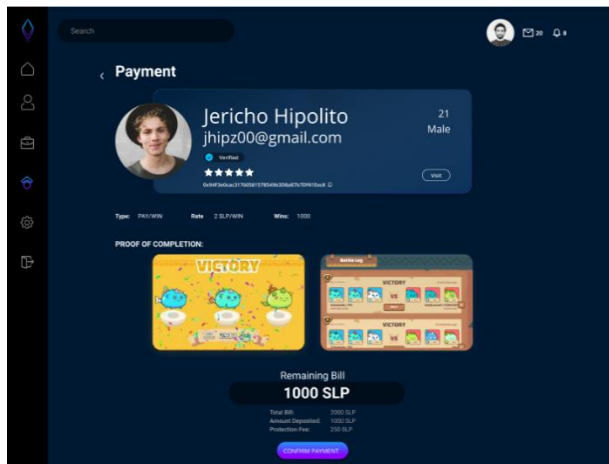


Figure 7. Payment

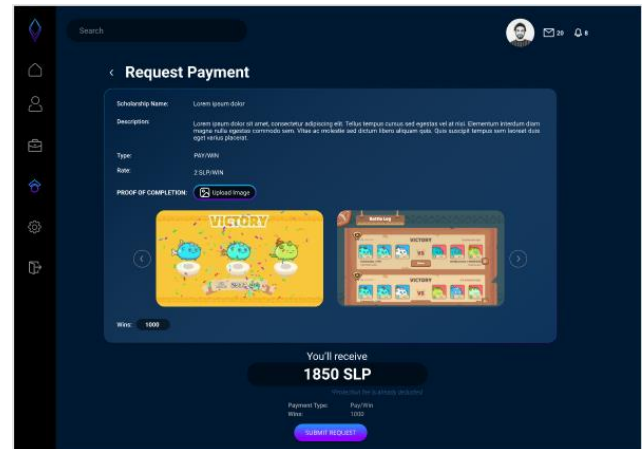


Figure 7. Request Payment

3. Test Cases

The following tables are the test cases based on the proposed features of the application. These tests show how users can interact with the features of the application and how EalyNexus respond to each functionality.

Table 1. Check Registration Functionality

ID	AT_001	AT_002
Descript ion	Check User Registration with Valid Data	Check User Registration with Invalid Data
Steps	1. Open EalyNexus Application 2. Click Register 3. Enter Email Address 4. Enter First name 5. Enter Last name 6. Enter Password 7. Click Register	
Data	FirstName = Ealy LastName = Nexus Email = ealynexus1@gmail.com Password = 123ealynexus	FirstName = ealy@nexus1 LastName = 1@11 Email = ealynexus1@gmail.com Password = 123ealynexus
Expecte d Results	User can now log in to the website	User will be redirected to the registration page with empty field
Actual Results	Successful registration	Failed registration
Pass /Fail	Pass	Pass

Table 2. Check Login Functionality

ID	BT_001	BT_002
Description	Check if log in user data credentials entered are valid	Check if log in user data credentials entered are valid
Steps	1. Open EalyNexus Application 2. Input Email Address 3. Input Password 4. Click Log in	
Data	Email = ealynexus1@gmail.com Password = 123ealynexus	Email = ealynexus1@gmail.com Password = 123ealynexus
Expected Results	User can now log in to the website	User will be redirected to the registration page with empty field
Actual Results	Successful log in	Failed log in
Pass /Fail	Pass	Pass

Table 3. Check Home Tab Functionality

ID	CT_001	CT_002
Description	Check the response when the user adds a post	Check the response when the user comments on the post
Steps	1. Open EalyNexus Application 2. Tap Home Page 3. Tap Add Post 4. Tap Upload Picture 5. Tap File Attachments 6. Tap Post	1. Open EalyNexus Application 2. Tap Home Page 3. Tap View Post 4. Tap Comment 5. Tap Send
Data	Post: I'm looking for 20 scholars	Comment: You're good!
Expected Results	The post would be displayed in the news feed	The comment will be displayed in the comment section of the post.
Actual Results	As Expected	As Expected
Pass /Fail	Pass	Pass

ID	CT_003	CT_004
Description	Check the response when the user reacts on the post	Check the response when the user shares the post
Steps	1. Open EalyNexus Application 2. Tap Home Page 3. Tap View Post 4. Tap like or heart	1. Open EalyNexus Application 2. Tap Home Page 3. Tap View Post 4. Tap Retweet button 5. Tap Share
Data	Reaction: Hearts the post	Share: Retweets the post
Expected Results	The user's reaction will be displayed in the post that he/she hearts the post	The user's retweet to the post will be displayed and it will be viewed in the news feed that he/she shares the post.
Actual Results	As Expected	As Expected
Pass /Fail	Pass	Pass

Table 4. Check Profile Tab Functionality

ID	DT_001	DT_002
Description	Check the response when the user will change his/her age with a valid input	Check the response when the user will change his/her age with an invalid input
Steps	1. Open EalyNexus application 2. Tap Profile Tab 3. Tap Edit Account Details 4. Edit user's email 5. Tap Save	
Data	Age = 20	Age = twenty
Expected Results	Data will be saved and displayed in the Account Details section	The application will display an error message informing the user that the inputted age was invalid
Actual Results	As Expected	As Expected

Pass /Fail	Pass	Pass
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ID	DT_003	DT_004
Description	Check the response when the user adds an achievement	Check the response when user adds a new game
Steps	1. Open EalyNexus application 2. Tap Profile Tab 3. Tap Edit Achievements 4. Add an achievement 5. Tap Save	1. Open EalyNexus application 2. Tap Profile Tab 3. Tap Edit Games Played 5. Select a game 6. Tap Add
Data	AddAchievement = Top 11 Season 19	AddGame = Theta Arena
Expected Results	Data will be saved and displayed in the Achievements section	Data will be saved and displayed in the Games Played section
Actual Results	As Expected	As Expected
Pass /Fail	Pass	Pass

ID	DT_005	DT_006
Description	Check the response when user adds a new featured	Check the response when the user verified his/her account successfully
Steps	1. Open EalyNexus application 2. Tap Profile Tab 3. Tap Add Featured 5. Enter a title 6. Upload an image 7. Tap Save	1. Open EalyNexus application 2. Tap Profile Tab 3. Tap Verify Account 4. Select Type of ID 5. Select Country 6. Select Region/State 7. Enter Zip Code 8. Enter Phone Number 9. Upload Front ID picture

		10. Upload Back ID picture
Data	Title = Axie 2k Achievement Image = axie2k.jpg	TypeofID = National ID Country = Philippines Region/State = Region VII – Central Visayas ZipCode = 6000 PhoneNumber = 09052109361 FrontID = front.jpg BackID = back.jpg
Expected Results	Data will be saved and displayed in the Featured section	A notification will inform the user about the successful verification and a verified icon will display on the profile screen
Actual Results	As Expected	Successful verification
Pass /Fail	Pass	Pass

ID	DT_007	DT_008
Description	Check the response when the user verified his/her account unsuccessfully	Check the response when the user connects to the CryptoWallet
Steps	1. Open EalyNexus application 2. Tap Profile Tab 3. Tap Verify Account 4. Select Type of ID 5. Select Country 6. Select Region/State 7. Enter Zip Code 8. Enter Phone Number 9. Upload Front ID picture 10. Upload Back ID picture	1. Open EalyNexus application 2. Tap Profile Tab 3. Tap Connect to wallet 4. Enter wallet password

Data	TypeofID = National ID Country = PhilipBackID = blurryback.jpg Region/State = Region VII – Central Visayas ZipCode = 6000 PhoneNumber = 09052109361 FrontID = blurryfront.jpg	Password = Walletpassword123
Expected Results	A notification will inform the user about the failed verification	CryptoWallet extension will appear on the screen
Actual Results	Failed verification	Connected successfully
Pass /Fail	Pass	Pass

Table 5. Check Scholarship Tab Functionality

ID	ET_001	ET_002
Description	Check the response when the user applies for a scholarship	Check response when the user accept the application
Steps	1. Open EalyNexus application 2. Tap Scholarship Tab 3. Tap Scholarship Offer 4. Tap Apply 5. Enter Type 6. Enter Rate 7. Enter Receive 8. Enter Cover Letter 9. Tap Submit	1. Open EalyNexus application 2. Tap Scholarship Tab 3. Tap Scholarship Offer - Applicants 4. Tap Confirm 5. Review Application 5. Tap Accept
Data	TYPE= PAY/WIN	TYPE= PAY/WIN

	RATE= SLP 3 / WIN RECEIVE = 2.5/ WIN FirstName = Ealy LastName = Nexus Cover Letter = Good day! My name is Ealy Nexus I'm 21 years old. I have experience in playing strategic games and I have basic knowledge about it and researched tons of information on it. You should choose me sir because I'm willing to learn and also prioritize the daily quota. I also want to earn money so that I can help my family.	RATE= SLP 3 / WIN RECEIVE = 2.5/ WIN FirstName = Ealy LastName = Nexus Cover Letter = Good day! My name is Ealy Nexus I'm 21 years old. I have experience in playing strategic games and I have basic knowledge about it and researched tons of information on it. You should choose me sir because I'm willing to learn and also prioritize the daily quota. I also want to earn money so that I can help my family.
Expected Results	User application will be display in applicants screen	A notification will inform the user about the accepted application
Actual Results	As Expected	As Expected
Pass /Fail	Pass	Pass

ID	ET_003	
Description	Check response when the user reject the application	
Steps	1. Open EalyNexus application 2. Tap Scholarship Tab 3. Tap Scholarship Offer - Applicants 4. Tap Confirm 5. Review Application 5. Tap Reject	
Data	TYPE= PAY/WIN	

	<p>RATE= SLP 3 / WIN RECEIVE = 2.5/ WIN FirstName = Ealy LastName = Nexus Cover Letter = Good day!</p> <p>My name is Ealy Nexus I'm 21 years old. I have experience in playing strategic games and I have basic knowledge about it and researched tons of information on it. You should choose me sir because I'm willing to learn and also prioritize the daily quota. I also want to earn money so that I can help my family.</p>
Expected Results	A notification will inform the user about the rejected application
Actual Results	As Expected
Pass /Fail	Pass

Table 6. Request Payment Functionality

ID	FT_001	FT_002
Descript ion	Check the response when user tapped request for payment button	Check the response when user is on request payment page and submitted request for payment
Steps	<ol style="list-style-type: none"> 1. Open EalyNexus application 2. Tap scholarship navigation link 3. Verify redirection to scholarship page 4. Tap scholarships tab 5. Verify user's scholarships are displayed 6. Select specific scholarship 7. Verify scholarship information is displayed 8. Tap request payment button 	<ol style="list-style-type: none"> 1. Verify scholarship & scholar information are displayed 2. Tap upload image button 3. Upload proof of completion images 4. Input specified completion status 5. Tap submit request button 6. Verify cryptowallet sign transaction prompt is displayed 7. Tap sign button

Data	<p>website_url = "ealynexus.com/scholarships"</p> <p>tab_title = "Scholarships"</p> <p>scholarships = [Scholarship1, Scholarship2, Scholarship 3]</p> <p>select_scholarship = Scholarship1</p>	<p>scholarship = Scholarship1</p> <p>scholar = scholar1</p> <p>proof_completion_images = [axie_mmr_3000.png, axie_battle_logs.png]</p> <p>completion_statuses = 1000 wins</p>
Expected Results	User is redirected to Request Payment Page	User is redirected to User Review Page
Actual Results	Successful log in	Failed log in
Pass /Fail	Pass	Pass

Table 7. Pay Scholar Functionality

ID	GT_001	GT_002
Descript ion	Check the response when tapping the pay scholar button	Check the response when user is on payment page and submitted the payment
Steps	<ol style="list-style-type: none"> 1. Open EalyNexus application 2. Tap scholarship navigation link 3. Redirected to scholarship page 4. Tap scholars tab 5. Verify user's active scholars are displayed 6. Select specific scholar 7. Display scholar and scholarship information 8. Tap pay button 	<ol style="list-style-type: none"> 1. Verify scholarship & scholar information are displayed 2. Verify proof of completion images are displayed 3. Verify bill computation is displayed 4. Tap confirm payment button 5. Verify cryptowallet sign transaction prompt is displayed 6. Tap sign button

		7. Verify user balance is deducted
Data	website_url = "ealynexus.com/scholarships" tab_title = "Scholars" scholars = [Scholar1, Scholar2, Scholar3] scholar = scholar1 scholarship = Scholarship1	scholar = scholar1 scholarship = Scholarship1 proof_completion_images = [axie_mmr_3000. png, axie_battle_logs. png] bill = Bill1 wallet = Wallet1
Expected Results	User is redirected to Payment Page	User balance is deducted and redirected to User Review Page
Actual Results	As Expected	Pass
Pass/Fail	As Expected	Pass

4. Conclusion/Recommendation

People are now and have been struggling to apply jobs due to high expected qualifications or low-paid. As NFT games and cryptocurrency have been rising, students can now earn while still studying and unemployed can apply without having problem with qualifications. EalyNexus development will help people in their financial problems. With EalyNexus, users can apply and propose play-to-earn jobs. Users are verified for successful services and transactions. Users can also express their emotions and gratitude in the community.

5. References

- [1] Manila Bulletin. 2021. Axie Infinity Philippines channel hacked, more than P5 million stolen. Retrieved from <https://mb.com.ph/2021/11/02/axie-infinity-philippines-channel-hacked-more-than-p5-million-stolen/>
- [2] Manila Times. 2021. Play-to-Earn Games PH: The future of gaming. Retrieved from <https://www.manilatimes.net/2021/12/07/public-square/play-to-earn-games-ph-the-future-of-gaming/1825033>