

# Salva il mondo con Nardomen

Git repository link: [https://gitlab.com/nardomen/SalvailmondoconNardomen\\_v2.git](https://gitlab.com/nardomen/SalvailmondoconNardomen_v2.git)

Sprint tracking link: [https://docs.google.com/spreadsheets/d/1bvRnTRQr6Gp\\_rhiu6WHQYiSpFwlqrEB4mo2S0OPWyl8/edit#gid=12](https://docs.google.com/spreadsheets/d/1bvRnTRQr6Gp_rhiu6WHQYiSpFwlqrEB4mo2S0OPWyl8/edit#gid=12)

## Users stories

### SEZIONE SIGNUP E LOGIN

1. As an UNREGISTERED USER I want to LOGIN WITH E-MAIL so that I can BECOME A USER
2. As an UNREGISTERED USER I want to LOGIN WITH FACEBOOK so that I can BECOME A USER
3. As an UNREGISTERED USER I want to LOGIN WITH TWITTER so that I can BECOME A USER

### SEZIONE HOME

4. As a USER I want to HAVE A HOME so that I can FOLLOW OTHER USER
5. As a USER I want to HAVE A HOME so that I can SEARCH OTHER USERS
6. As a USER I want to HAVE A HOME so that I can SEE MY FRIENDS' SCORES
7. As a USER I want to HAVE A HOME so that I can SHARE MY SCORES

### SEZIONE SETTINGS

8. As a USER I want to HAVE SETTINGS so that I can DELETE MY ACCOUNT
9. As a USER I want to HAVE SETTINGS so that I can CHANGE MY E-MAIL
10. As a USER I want to HAVE SETTINGS so that I can CHANGE MY PASSWORD
11. As a USER I want to HAVE SETTINGS so that I can CHANGE MY NICKNAME

### SEZIONE PROFILO

12. As a USER I want to HAVE A PROFILE so that I can SET A PERSONAL IMAGE
13. As a USER I want to HAVE A PROFILE so that I can SET MY GAME SKIN
14. As a USER I want to HAVE A PROFILE so that I can SET MY GAME SWORD
15. As a USER I want to HAVE A PROFILE so that I can SET MY ENEMIES SKIN
16. As a USER I want to HAVE A PROFILE so that I can SET MY GAME LANDSCAPE
17. As a USER I want to HAVE A PROFILE so that I can SEE MY LEVEL
18. As a USER I want to HAVE A PROFILE so that I can SEE MY BEST SCORE
19. As a USER I want to HAVE A PROFILE so that I can SEE MY SCORES COUNT

### SEZIONE NOTIFICHE

20. As a USER I want to HAVE A NOTIFICATION CENTER so that I can GET REMINDERS ABOUT NEW FOLLOWERS
21. As a USER I want to HAVE A NOTIFICATION CENTER so that I can GET REMINDERS ABOUT NEW FRIENDS' BEST SCORE

## SEZIONE GIOCO

- 22. As a USER I want to HAVE A GAME SECTION so that I can PLAY THE GAME
- 23. As a USER I want to HAVE A GAME SECTION so that I can LEVEL UP
- 24. As a USER I want to HAVE A GAME SECTION so that I can EARN GAME MONEY
- 25. As a USER I want to HAVE A GAME SECTION so that I can UNLOCK NEW SKINS
- 26. As a USER I want to HAVE A GAME SECTION so that I can UNLOCK NEW SWORDS

## SEZIONE NEGOZIO

- 27. As a USER I want to HAVE A STORE so that I can BUY NEW SKIN
- 28. As a USER I want to HAVE A STORE so that I can BUY NEW SWORDS
- 29. As a USER I want to HAVE A STORE so that I can BUY NEW ENEMIES SKIN
- 30. As a USER I want to HAVE A STORE so that I can BUY NEW LANDSCAPES

## SEZIONE SERVIZI ESTERNI

- 31. As a USER I want to USE FACEBOOK so that I can SEE MY FRIENDS
- 32. As a USER I want to USE FACEBOOK so that I can SHARE MY PROFILE
- 33. As a USER I want to USE FACEBOOK so that I can SHARE MY SCORES
- 34. As a USER I want to USE TWITTER so that I can SHARE MY PROFILE
- 35. As a USER I want to USE TWITTER so that I can SHARE MY SCORES
- 36. As a USER I want to USE AWS so that I can UPLOAD MY PROFILE IMAGE

## SEZIONE PANNELLO DI CONTROLLO GAME MASTER

- 37. As a GAME MASTER I want to HAVE SPECIAL SETTINGS so that I can TEMPORARILY BAN USERS
- 38. As a GAME MASTER I want to HAVE SPECIAL SETTINGS so that I can ASK FOUNDER TO PERMANENTLY BAN USER
- 39. As a GAME MASTER I want to HAVE SPECIAL SETTINGS so that I can SEE ALL USER PROFILES

## SEZIONE PANNELLO DI CONTROLLO FOUNDER

- 40. As a FOUNDER I want to HAVE SPECIAL SETTINGS so that I can PERMANENTLY BAN USERS
- 41. As a FOUNDER I want to HAVE SPECIAL SETTINGS so that I can APPROVE OR CANCEL A PERMANENTLY BAN REQUEST
- 42. As a FOUNDER I want to HAVE SPECIAL SETTINGS so that I can DELETE A BAN
- 43. As a FOUNDER I want to HAVE SPECIAL SETTINGS so that I can PROMOTE OR DEMOTE USERS

The screenshot shows a web browser window with the address bar displaying 'Google'. The page has a blue header with the text 'Nardomen' on the left and 'Login Sign up' on the right. The main content area is titled 'Sign up' and contains the following form fields:

- Nickname:
- Name:
- Last name:
- Email:
- Password:
- Password confirmation:

Below the form fields, there is a blue button labeled 'Sign up'. To the left of this button, there are links for 'Login', 'Sign up with Facebook', and 'Sign up with Twitter'. At the bottom of the page, there is a footer with the text '© All right reserved to GNM SNC' on the left and 'About Contact Other Privacy' on the right.

## Mock-up

Sign up page

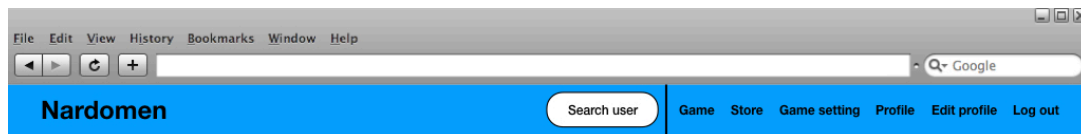
Login page

The screenshot shows a web browser window with the address bar displaying 'Google'. The page has a blue header with the text 'Nardomen' on the left and 'Login Sign up' on the right. The main content area is titled 'Log in' and contains the following form fields:

- Email:
- Password:

Below the form fields, there is a blue button labeled 'Log in'. To the left of this button, there are links for 'Sign up with Facebook' and 'Sign up with Twitter'. At the bottom of the page, there is a footer with the text '© all right reserved to GNM snc' on the left and 'About Contact Other Privacy' on the right.

## Homepage



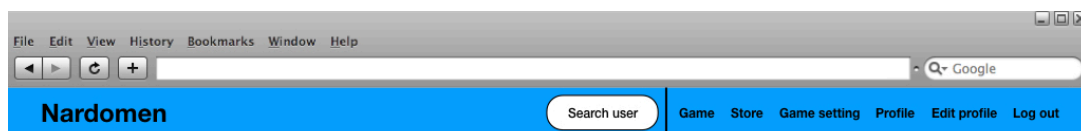
## Nardomen

- **Followed user1** has scored 100, *10 minutes ago*
- **Followed user2** has scored 278, *14 minutes ago*
- **Followed user4** has scored 98, *1 hour ago*
- **Followed user5** has scored 478, *1.3 hour ago*
- **Followed user3** has scored 876, *2 hours ago*
- **You** scored 500, *1 day ago*

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## User's profile



## Your user profile



Your nickname

Level: 6

Best score: 800

Money: 1400

- **You** scored **200**, *5 minutes ago*
- **You** scored **167**, *10 minutes ago*
- **You** scored **396**, *30 minutes ago*
- **You** scored **800**, *45 minutes ago*
- **You** scored **769**, *58 minutes ago*

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## Edit profile

File Edit View History Bookmarks Window Help

Search user

Game Store Game setting Profile Edit profile Log out

### Edit profile

Image profile

Upload new image to change you profile's image

Upload

Email

New password

New password confirmation

Current password

Submit changes

Delete account

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## Game settings

File Edit View History Bookmarks Window Help

Search user

Game Store Game setting Profile Edit profile Log out

### Game settings

Select your skin:

Skin1

Select your enemy:

Enemy1

Select your sword:

Sword1

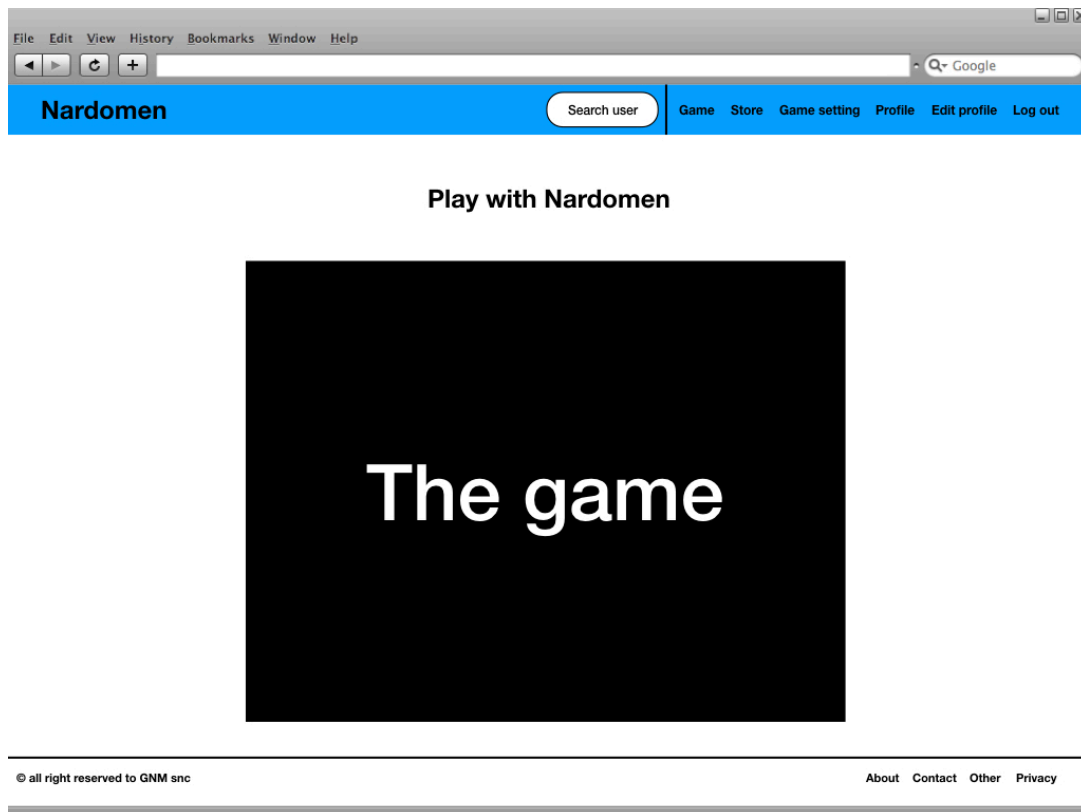
Select your landscape:

Landscape1

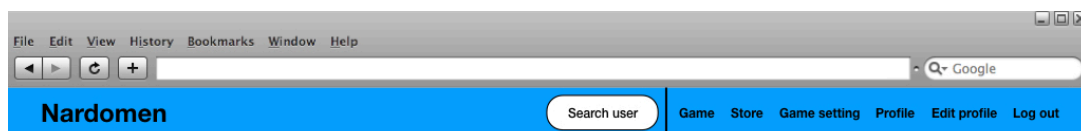
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## Game page



## Search page

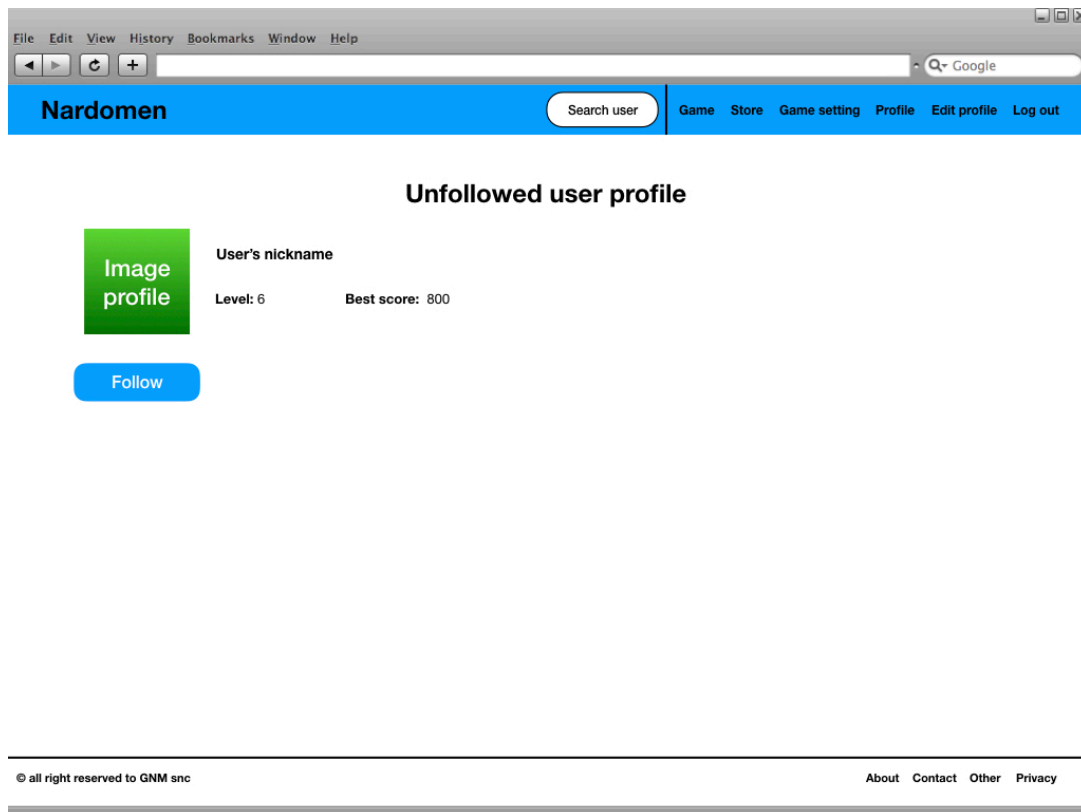


## Search user

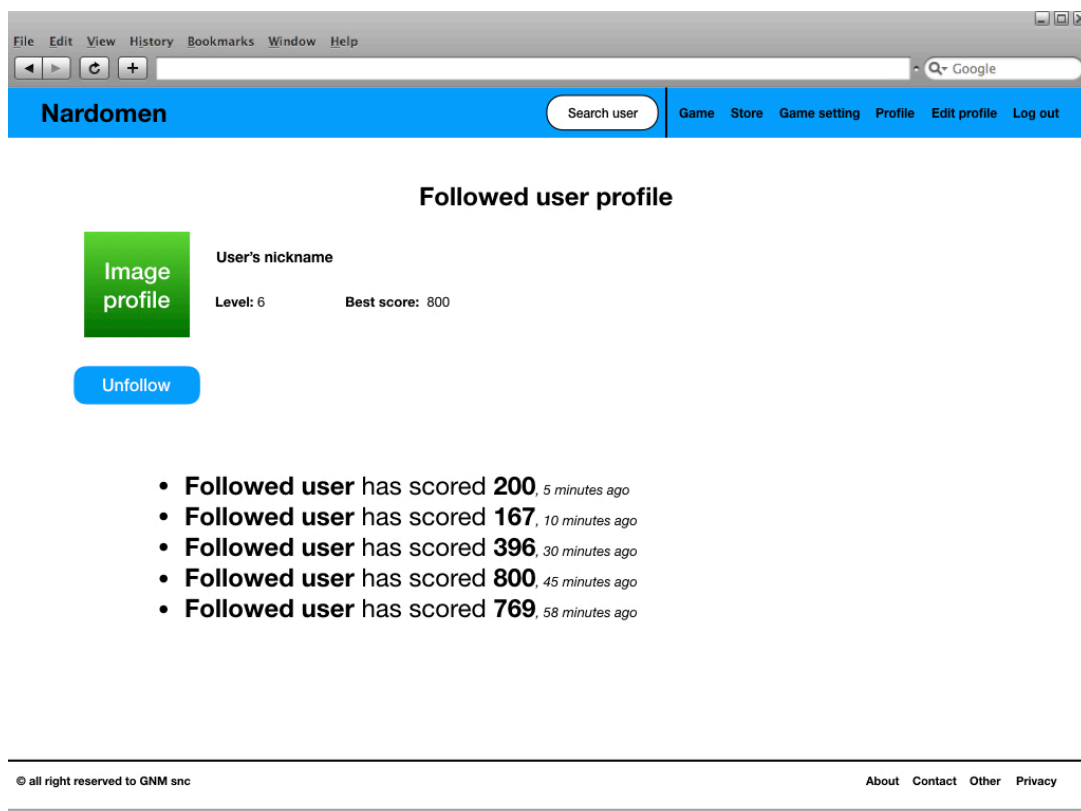
### Result for 'nickname':

- User1
- User6
- User23
- User44
- User67

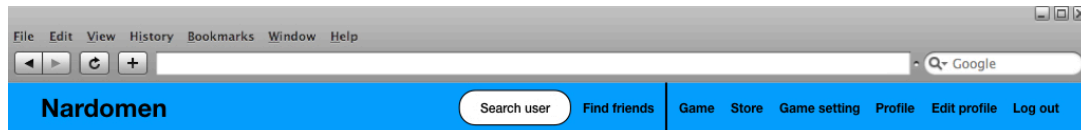
## Unfollowed user's profile



## Followed user's profile



## Facebook find friends



## Find friends

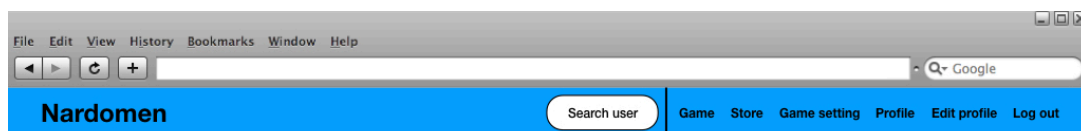
Here a list of your facebook friends using Nardomen:

- Facebook friend1
- Facebook friend2
- Facebook friend3
- Facebook friend4
- Facebook friend5

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## Store



### Store

- **Skins**

1. Skin1	Level: 2	Price: 20	<b>BUY</b>
2. Skin2	Level: 5	Price: 70	<b>BUY</b>
3. Skin3	Level: 8	Price: 120	<b>BUY</b>
- **Enemies**

1. Enemy1	Level: 2	Price: 30	<b>BUY</b>
2. Enemy2	Level: 6	Price: 100	<b>BUY</b>
3. Enemy3	Level: 11	Price: 150	<b>BUY</b>
- **Swords**

1. Sword1	Level: 2	Price: 40	<b>BUY</b>
2. Sword2	Level: 8	Price: 75	<b>BUY</b>
3. Sword3	Level: 12	Price: 135	<b>BUY</b>
- **Landscapes**

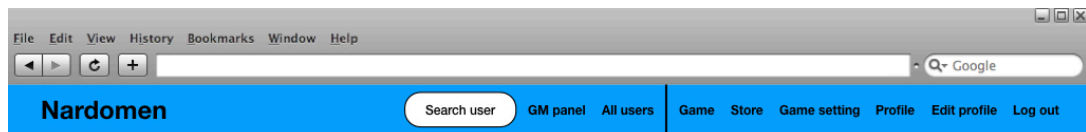
1. Landscape1	Level: 6	Price: 120	<b>BUY</b>
2. Landscape2	Level: 15	Price: 200	<b>BUY</b>
3. Landscape3	Level: 20	Price: 280	<b>BUY</b>

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## Users list



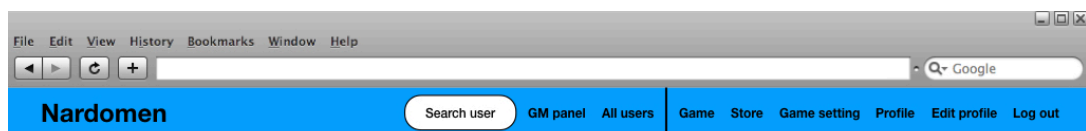
### Here a list of all the user:

- User1
- User2
- User3
- User4
- User5
- ...
- User99
- User100

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## Game Master control panel



### Here a list of all the user:

- |   |         |                            |   |                                    |
|---|---------|----------------------------|---|------------------------------------|
| • | User1   | Days: <input type="text"/> | Request permanent ban? <input type="checkbox"/> | <input type="button" value="Ban"/> |
| • | User2   | Days: <input type="text"/> | Request permanent ban? <input type="checkbox"/> | <input type="button" value="Ban"/> |
| • | User3   | Days: <input type="text"/> | Request permanent ban? <input type="checkbox"/> | <input type="button" value="Ban"/> |
| • | User4   | Days: <input type="text"/> | Request permanent ban? <input type="checkbox"/> | <input type="button" value="Ban"/> |
| • | User5   | Days: <input type="text"/> | Request permanent ban? <input type="checkbox"/> | <input type="button" value="Ban"/> |
| • | ...     |                            |   |                                    |
| • | User99  | Days: <input type="text"/> | Request permanent ban? <input type="checkbox"/> | <input type="button" value="Ban"/> |
| • | User100 | Days: <input type="text"/> | Request permanent ban? <input type="checkbox"/> | <input type="button" value="Ban"/> |

### Banned user:

- BannedUser1
- BannedUser2
- BannedUser3

### Request permanent ban:

- Request1
- Request2
- Request3

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## Founder control panel

FileEditViewHistoryBookmarksWindowHelp

◀▶↺+

Google

Nardomen

Search user

Founder panelAll usersGameStoreGame settingProfileEdit profileLog out

All users:

•

GM1

Days:

Request permanent ban?

☐

Ban

Demote to Gamer

•

Gamer1

Days:

Request permanent ban?

☐

Ban

Promote to GM

•

GM2

Days:

Request permanent ban?

☐

Ban

Demote to Gamer

•

Gamer2

Days:

Request permanent ban?

☐

Ban

Promote to GM

•

GM3

Days:

Request permanent ban?

☐

Ban

Demote to Gamer

•

...

•

Gamer99

Days:

Request permanent ban?

☐

Ban

Promote to GM

•

Gamer100

Days:

Request permanent ban?

☐

Ban

Promote to GM

Banned user:

• BannedUser1

Remove ban

• BannedUser2

Remove ban

• BannedUser3

Remove ban

Request permanent ban:

• Request1

Approve

Cancel

• Request2

Approve

Cancel

• Request3

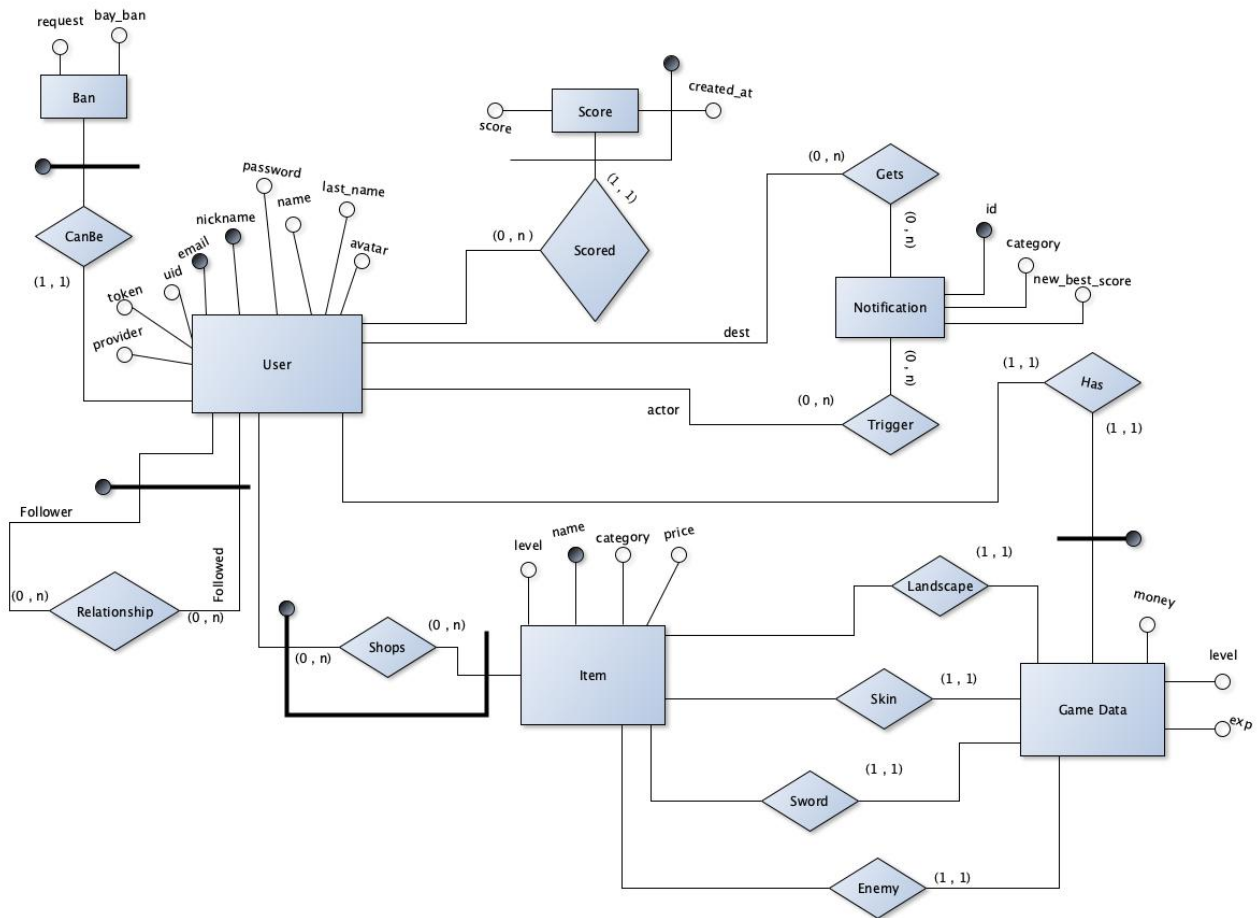
Approve

Cancel

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## Modello Entità Relazione



## Struttura controllo degli accessi

### Gamer:

Ruolo con diritti di accesso alla funzionalità base della web application. Non ha diritto ad alcuna funzionalità di gestione dell'applicazione o degli altri utenti, le sue funzionalità si limitano quindi al gioco e alla gestione del proprio profilo.

### Game Master

Ruolo con diritti di accesso alle funzionalità intermedio. Ha tutti i diritti di accesso alle funzionalità del ruolo gamer. Ha alcune funzionalità di gestione degli User, ha funzione di moderatore in quanto può bannare temporaneamente un altro utente, richiedere il ban permanente e accedere ad una lista di tutti gli utenti. Non ha funzioni di gestione della web application.

### Game Founder

Ruolo con massimi diritti di accesso alle funzionalità della web application. Ha gli stessi diritti del Game Master, con in aggiunta funzioni di gestione dell'applicazione ed ulteriori funzionalità di

gestione degli utenti. Può bannare permanentemente gli utenti sia autonomamente che vagliando le richieste ricevute dai Game Master. Può promuovere un Gamer a Game Master o retrocedere un Game Master a Gamer. Inoltre può sospendere temporaneamente il sito web per permettere la manutenzione.

## Piano dei test

I test toccano ogni spetto della web application, essi sono implementati utilizzando rspec-rails e cucumber. Per generare istanze durante i test vengono utilizzate le gemme faker, per generare gli attributi delle istanze in maniera casuale, e factory\_bot\_rails, per creare le istanze vere e proprie.

Attraverso Rspec vengono testati i controller ed i modelli presenti nella applicazione, mentre cucumber è utilizzato per testare tutte le user storie emulando le azioni di un browser, con il supporto delle gemme capybara e selenium-webdriver.

I modelli testati sono: User, GameData, Item, Shop, Notification, Relationship, Score, Ban; in tutti i modelli viene testata innanzitutto la validità della factory e l'invalidità delle istanze se non inserito un attributo la cui presenza è obbligatoria. Viene inoltre testata la presenza di chiavi nei modelli e quindi l'invalidità di due istanze dello stesso modello con valore di un attributo chiave identico. In particolare nel modello User viene testata anche la presenza delle due chiavi 'nickname' ed 'email', analogamente nel modello Item per l'attributo 'name', chiave del corrispondente modello.

Per i modelli Score e Notification viene testato l'ordine dell'istanze il quale deve essere in ordine decrescente rispetto all'attributo di default dei modelli rails 'created\_at'.

Vengono testati tutti i controller presenti nell'applicazione: StaticPagesController, UsersController, GameFoundersController, GameMastersController, StoresController, RelationshipController, Users::OmniauthCallbacksController, GamesController.

I test dei controller riguardano tutte le azioni disponibili e sono sempre presenti almeno due contesti uno che riguarda un utente non autenticato e l'altro che riguarda un utente autenticato, in modo da testare l'impossibilità di compiere determinate azioni non permesse ad un utente non autenticato.

Infatti tutte le azioni dei controller sono proibite ad utenti non autenticati, i quali sono reindirizzati nella pagina di login, ad eccezione delle azioni del controller StaticPages disponibili per tutti gli utenti.

I controller GameMasters e GameFounders inoltre hanno un terzo contesto perché per accedere alle loro azioni bisogna essere rispettivamente Game Master o Game Founder, viene quindi testata l'impossibilità di un Gamer di compiere azioni riservati ruoli precedente citati.

Utilizzando cucumber vengono testate le user stories disponibili per l'utente.

Vengono testate la registrazione e l'autenticazione di un utente sia con valide che con invalide informazioni, la pagina di modifica del profilo, quindi la modifica dell'immagine del profilo, del nickname, dell'email e della password e la cancellazione dell'account. Viene testata anche la search bar, l'acquisto di oggetti dallo store, la possibilità di seguire e smettere di seguire altri user e il cambio delle skin di gioco. Viene anche testato il pannello di controllo del game master, quindi viene testata la possibilità di bannare un user temporaneamente e di inviare ai game founder una richiesta di ban permanente.

Infine è testato il pannello di controllo del game founder, quindi viene testato il ban temporaneo e permanente di uno user, la rimozione di un ban e l'approvazione o il dissenso di una richiesta di ban permanente da parte di un game master.

I test possono essere eseguiti utilizzando i seguenti comandi rispettivamente per Rspec e cucumber: *bundle exec rspec* e *bundle exec cucumber*.