**User**

**Requirements**

**Specification**

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# **Web application:**

After the completion of the application, the user will have the ability to:

* Write reviews and rate video games
* Create an account
* Get recommendations for video games they may like
* View statistics for video games based on genre

**Nonfunctional requirements:**

NFR 01: Correctness in the data retrieved from the database.

NFR 02: Understandability of how the web application works.

NFR 03: Maintainability of the program via the desktop application.

NFR 04: Easy access to the application.

NFR 05: Trustworthy information stored in the database.

# **Functional requirements:**

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| **FR 01** | Desktop and web applications should be connected to a database. |
| **FR 02** | The user should have the ability to make a registration. |
| **FR 03** | The user should be able to make reviews for different games. |
| **FR 04** | The user can add “Played Games” to their profile page. |
| **FR 05** | The user will get recommendations based on his “Played Games” |
| **FR 06** | The user can see statistics of the most popular games. |
| **FR 07** | User can search for games based on consoles and genres. |

# **Moscow:**

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| **Must** | * Ability to write reviews and rate video games * Account creation * Get recommendations for video games that the user may like * Statistics for video games based on genre * Be able to search games by genre |
| **Should** | * The user can add games that they have played to their profile |
| **Could** | * Add profile pictures * Other users can like/dislike a review |
| **Won’t** | * Be able to purchase games on the platform |

# **User case:**

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| **UC-001** |
| **Action** | User creates an account |
| **Actor** | User |
| **Preconditions** | 1. User is on the registration page |
| **Main Success Scenario** | 1. The system displays a registration form containing fields for email, username and password 2. The user fills the form 3. User creates an account successfully |
| **Extension** | 1a: The email address is invalid or already taken.  .1: A message is displayed.  .2: User is requested to enter an email address again or use another email address.  2a: The nickname is already taken.  .1: A message is displayed.  .2: The user is asked to use another nickname.  3a: Password is not secure enough  .1: A message is displayed.  .2: User is requested to enter a more complex password. |

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| **UC-002** |
| **Action** | User writes a review and rates the game |
| **Actor** | User |
| **Preconditions** | 1. User should be in the page of a game 2. User should be logged in |
| **Main Success Scenario** | 1. User gives a rating to the game (from 1 to 5) 2. Rating is submitted successfully. |
| **Extension** | 1.2a: The user did not enter any rating  .1: A message is displayed.  .2: User is requested to enter a rating  2.1a: User has not logged in  .1: A message is displayed.  .2: User is asked to either register or log in on the platform.  3b: User is trying to review the game more than once.  .1: A message is displayed.  (Optional) User writes a review for the game  .1: User writes a review for the game together with a rating and submits it.  .2: A message is displayed that the review is submitted successfully. |

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| **UC-003** |
| **Action** | User can add games that they have played to their profile |
| **Actor** | User |
| **Preconditions** | 1. User is logged in 2. User should be in the page of a game |
| **Main Success Scenario** | 1. User presses a button saying “Add to Played Games” 2. The game gets added to their profile page in a category “Played Games” |
| **Extension** | 1.1a: User is not logged in  .1: A message is displayed.  .2: The user is asked to log in in order to add the game to their profile.  2.2a: User has already added this game to their profile  .1: A message is displayed. |

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| **UC-004** |
| **Action** | User searches games by genre |
| **Actor** | User |
| **Precondition** | 1. User must be in a games page |
| **Main Success Scenario** | 1. User adds a genre preference in the sidebar on their right 2. User is able to see all games that are of the selected genre/s |
| **Extension** | 1.2a: The user hasn’t added any genre preferences  .1: The uses sees all of the games at one place  (Optional) User enters a word in the search bar above  .1: The user is able to search for a game by a keyword that they input in the search bar  .2: User is able to see video games that include the inputted word by the user in their titles |

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| **UC-005** |
| **Action** | User gets recommendations for video games that they may like |
| **Actor** | User |
| **Precondition** | 1. User is logged in 2. User has added games that they have played to their profile page |
| **Main Success Scenario** | 1. User gets recommended games based on the games that are added to their profile on the bottom of the profile page |
| **Extension** | 1.1a: User is trying to access their profile page but they are not logged in  .1: A message is displayed.  .2: User is requested to log in or register  2.1a: User has not added any games to their profile page  .1: The bottom of the profile page where the recommended games should be  Is empty and a message says “Add games that you have played to your profile in order to get recommendations for games that you may like.” |

# **Test case:**

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| ID | UC | Name | Pre-Condition | Test data | Expected result |
| TC-01 | UC-001 | Create an account | Enter valid email and password | Email: [hristoganchev@gmail.com](mailto:hristoganchev@gmail.com)  Username: hristo12  Password: Pass123 | User manages to create an account successfully. They get logged in on the platform and redirected to their account page. |
| TC-02 | UC-001 | Create an account without valid information | Enter invalid email but valid password. | Email:  hristoganchev3  Username: hristo12  Password: Pass123 | User receives an error that they have entered invalid email address. |
| TC-03 | UC-001 | Create an account without valid information | Enter an email that is already taken. | Email:  [hristoganchev@gmail.com](mailto:hristoganchev@gmail.com)  Username: hristo12  Password: Pass123 | User receives an error message that this email is already in use. They are asked to use another email address. |
| TC-04 | UC-001 | Create an account without valid information | Enter valid email but invalid password. | Email:  [hristoganchev@gmail.com](mailto:hristoganchev@gmail.com)  Username: hristo12  Password: pass123 | The password does not fulfil the security measurements of the website (a password that contains a small and a large character). The user is requested to try again with a different password combination. |
| TC-05 | UC-001 | Create an account without valid information | Enter a username that is already taken. | Email:  [hristoganchev@gmail.com](mailto:hristoganchev@gmail.com)  Username: Hristo  Password: pass123 | The user receives a message that the username that they want is already taken and they should try again with a different one. |
| TC-06 | UC-002 | User creates a review for the game | Rates the game, writes a review while logged in and submits. | Username: hristo12  Rating: 5/5  Review: “Best game ever!” | The user submits the review successfully and a message is displayed. |
| TC-07 | UC-002 | User creates a review for the game, but does not enter text | Writes a review while logged in and submits without entering a rating from 1 to 5. | Username: hristo12  Rating: 0/5  Review: “Worst game ever!” | The user receives a message that they have not submitted a rating and asks them to do so. |
| TC-08 | UC-002 | User creates a review for the game but is not logged in | Rates the game, writes a review without being logged in and submits. | Username:  Rating: 3/5  Review: “I love the graphics, but the story is awful!” | The user receives a message that they need an account to be able to rate the game and are asked whether they would like to log in or create one. |
| TC-09 | UC-002 | User creates a review for a game that they have already rated | Rates the game, writes a review while logged in and submits. | Username: hristo12  Rating: 4.5/5  Review: “I love this game!” | The user receives a message that they have already written a review for that game. |
| TC-10 | UC-003 | User adds a game that they have played to their profile | Goes to the game they want to add while logged in and presses “Add to Played Games” |  | The user receives a message that they have successfully added the game to their profile. |
| TC-11 | UC-003 | User adds a game that they have played to their profile but are not logged in | Goes to the game they want to add while not logged in and presses “Add to Played Games” |  | The user receives a message that they have to log in in order to add the game to their profile and are asked to log in. |
| TC-12 | UC-003 | User tried to add a game that they have already added | Goes to the game they want to add and presses “Add to Played Games” |  | The user receives a message that they have already added this game to their profile. |
| TC-13 | UC-004 | User searches for games by genre | Goes to the Game page and adds genre of their choice by using the sidebar |  | The user is able to see all the games that are of the selected genre/s. |
| TC-13 | UC-004 | User searches for games by using a keyword | Goes to the Game page and enters a keyword in the search bar | Keyword: Just | The user is able to see all the games that include the word “Just” in their titles |
| TC-14 | UC-004 | User searches for games by using a keyword and a selected genre | Goes to the Game page, selects genre/s of their choice and enters a keyword in the search bar | Keyword: Just | The user is able to see all the games that include the word “Just” in their titles and are of the selected genre/s |
| TC-15 | UC-004 | User doesn’t add any genre or keyword | Goes to the Game page and does not select any genre or does not enter any keyword | Keyword: | The user is able to see all of the games included in the game library |
| TC-16 | UC-005 | User gets recommendations for video games that they may like | User has added games that they have played to their profile page |  | The user is able to see recommendations for games that they may like in the bottom of the page |
| TC-17 | UC-005 | User has not logged in and cannot see game recommendations | User has added games that they have played to their profile page, but they have not logged in |  | The user is trying to access their profile page but they are required to log in first |
| TC-18 | UC-005 | User has not added any games to their profile page | User has not added any games to their profile page and does not have any recommendations |  | When scrolling to the bottom of the profile page where the recommended games should be, the field  Is empty and a message says “Add games that you have played to your profile in order to get recommendations for games that you may like.” |