

Project Title

Computer Game Developer

Website Name

GameArena

Description

This website allows any game developers, or administrators, to upload, edit and delete their games. While uploading a game to the website, the administrator can decide upon the name of the game, its price, description, genre(s), one cover image, and multiple images of the game. A game can also have multiple genres. A Gameld is automatically generated for each game uploaded to the website. Moreover, each image also has a unique Imageld which is also automatically generated. The administrator can also choose to mark his or her game as featured which would allow the game to be seen at the top of the home page. As mentioned above, administrators also have the ability to edit or even delete any game they uploaded. While updating the information of the game, they can alter the name, description, genre(s), price, choose new images as well as a new cover image. If the administrator wants, he or she can also delete the listing. The website also makes sure that any administrator does not have access to the information of other administrators, and only the administrator who uploaded the game can update or delete it. No administrators have access to the entire database.

Users who are not administrators can also visit the website, sign up and log in to their personal accounts to buy any game that they might be interested in. A general user does not have access to the admin privileges such as uploading, editing, or deleting any game on the database. There is a cart functionality where a user can place any game to buy right away or at a later point in time. After the user has purchased a game, it goes into the user's library so that the user can always have access to the game.

Both the user's and the administrator's passwords are stored as hash values so that even in the case of a data breach, the passwords, and consequently the accounts, are safe.

Assumption: Since the website offers video games in digital format, there is no provision of increasing or decreasing the quantity of items in the cart. Furthermore, if a user buys a game, then he or she cannot buy it again.

Languages/Frameworks

1. Languages:
 - a. Python
 - b. HTML
 - c. CSS
 - d. JavaScript/JQuery
2. Framework:
 - a. Flask

Screenshots

The screenshot shows a web application interface for adding a new game. At the top, there is a navigation bar with links for 'Home', 'My Account', and 'Actions'. A search bar is located in the top right corner. The main heading is 'Add My Game', with a note below it stating 'All fields are mandatory.' The form consists of several fields: 'Name' (containing 'My Game'), 'Price' (with a '\$' symbol and the text 'Price'), 'Description' (a large text area), 'Select genre(s)' (a dropdown menu showing 'Racing', 'Action', 'Adventure', and 'RPG'), 'Images' (with 'Choose Files', 'No file chosen', and 'Upload' buttons), and 'Cover image' (with 'Choose File', 'No file chosen', and 'Upload' buttons). A 'Submit' button is at the bottom left.

Figure 1: Add Game

The screenshot shows a web application interface for viewing all games. At the top, there is a navigation bar with links for 'Home', 'My Account', and 'Actions'. A search bar is located in the top right corner. The main heading is 'Showing all games'. On the left, there is a 'Filters' sidebar with a 'Price' slider set to 60 and 'User Ratings' options (4 stars and up, 3 stars and up, 2 stars and up, 1 star and up). The main content area displays a grid of game cards. A modal dialog box is open over the 'Assassin's Creed Syndicate' card, asking 'Delete Assassin's Creed Syndicate?' and 'Are you sure you want to delete Assassin's Creed Syndicate? This game will still be available in the database but it will not show up in website's listings.' The dialog has 'Close' and 'Delete' buttons. The game cards shown are 'Assassin's Creed Syndicate', 'Call of Duty: Modern Warfare', and 'Contra'. Each card has 'Edit', 'View', and 'Delete' buttons. A pagination bar at the bottom shows pages 1 through 8, with page 1 selected.

Figure 2: Delete Game

[Home](#) [My Account](#) [Actions](#)

SEARCH

Update *Contra*

Change only those fields that you want to update as any change will be overwritten. Furthermore, uploading new images will delete the old images.

Name

Contra

Price

\$ 60

Description

Contra is set in the distant future of the year 2633 A.D., when the evil Red Falcon Organization have set a base on the fictional Galuga archipelago near New Zealand in a plot to wipe out humanity. Two commandos, Bill Rizer and Lance Bean of the Earth Marine Corp's Contra unit, are sent to the island to destroy the enemy forces and uncover the true nature of the alien entity controlling them.

Select genre(s)

Racing

Action

Adventure

RPG

Featured

☐

Images

Choose Files

No file chosen

Upload

Cover image

Choose File

No file chosen

Upload

Submit

Figure 3: Update Game

[Home](#) [My Account](#)

SEARCH

Your library

Filters

Price

60


User Ratings

☐ 4 stars and up


☐ 3 stars and up

☐ 2 stars and up


☒ 1 star and up



Assassin's Creed Black Flag
Assassin's Creed IV Black Flag begins in 1715, when pirates establishe...
[See details](#)



Assassin's Creed Brotherhood
The story once again features Ezio Auditore da Firenze, now a legendar...
[See details](#)



Forza Horizon 4
Live the Horizon Life when you play Forza Horizon 4. Experience a shar...
[See details](#)

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Figure 4: User Library

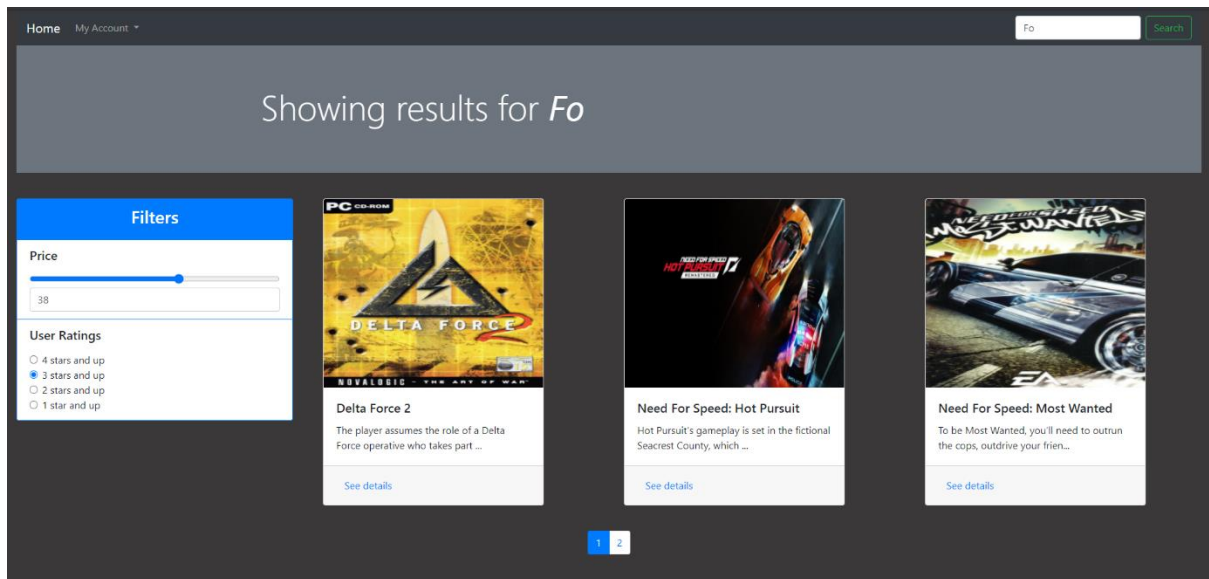


Figure 5: Search

Figure 6: Signup

Team Members

1. Ritwik Dev – rxd190028
2. Rishik Dev – rxd190027

Work Division

Ritwik Dev	Rishik Dev
Admin Index	Index
Sign Up	Sign In
Edit/Delete Existing Game	Add New Game
Game Details	Library
Search	Cart
Database	Database

Database Description

(Attached Below)