**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 GameId is automatically generated for each game uploaded to the website. Moreover, each image also has a unique ImageId 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:
   1. Python
   2. HTML
   3. CSS
   4. JavaScript/JQuery
2. Framework:
   1. Flask

**Screenshots**

Graphical user interface, application, Teams

Description automatically generated

Figure : Add Game

Graphical user interface

Description automatically generated

Figure : Delete Game

A picture containing text, screenshot, monitor

Description automatically generated

Figure : Update Game

Graphical user interface, application

Description automatically generated

Figure : User Library

Graphical user interface, application

Description automatically generated

Figure : Search

Graphical user interface, application, website

Description automatically generated

Figure : 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)