# R8PC

# Your PC Companion

# R8PC

# Done By :

# Mohammad Merhi

# Omar Albarakeh

# Mohammad Fakih

# Ali Mortada Anani

## Introduction

**Welcome to R8PC - Rate PC!**

R8PC is an online platform designed for buying, upgrading, and rating individual PC components, focusing on CPUs and GPUs. Whether you're a PC enthusiast or a casual user, R8PC provides a user-friendly experience to help you assess and improve your computer's performance.

### Key Features:

1. **Buy and Upgrade Components:**
   * Shop for individual CPU and GPU components to enhance your PC's capabilities.
   * Receive personalized upgrade suggestions for CPU, GPU, and RAM based on your system.
2. **Rate Component Performance:**
   * Assess the capabilities of your components based on what applications and games you can run.
3. **Relevant Statistics:**
   * Access relevant statistics highlighting the most recommended CPU, GPU, and RAM components by experienced users.
4. **User Authentication:**
   * Securely log in to your account to access the full range of R8PC features.

### System Requirements:

To run R8PC website, ensure your system has the following:

* **Web Browser:**
  + Use a browser capable of running PHP projects.
* **Database:**
  + MySQL is required to set up the database.
* **Code Editing:**
  + Any code editor of your choice for potential project customization.

## Installation:

To get started with R8PC, follow these steps for setting up the project and database:

### Step 1: Project Setup

1. Download the R8PC project files.
2. Place the project folder in the htdocs directory if you are using Xampp.

### Step 2: Database Installation

#### Option 1: Using PHP Pages (createdb.php and deletedb.php)

* **Create Database and Tables:**
  + Open your browser and navigate to http://localhost/r8pc-web-app-main/R8PC/createdb.php.
  + Before accessing the page, open DB\_Functions.php in the project folder and enter your MySQL password in the designated field.
  + This page will set up the database, create tables, and populate initial data.

A screen shot of a computer program

Description automatically generated

A screenshot of a computer screen

Description automatically generated

A screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generated

* **Drop Database and Tables:**
  + To remove the database and all associated tables and data, visit http://localhost/r8pc-web-app-main/R8PC/deletedb.php.

A screenshot of a computer

Description automatically generated

#### Option 2: Using SQL Scripts

* **Create Database and Tables:**
  + Execute the SQL scripts in the following order:
    1. CreateDatabase&Tables.sql: Creates the database and necessary tables.
    2. InsertData.sql: Inserts initial data into the tables.
* **Drop Database and Tables:**
  + Execute the DropDatabase.sql script to delete the entire database.

A screenshot of a computer

Description automatically generated

Now, you should have R8PC installed and ready for use. Access the application by navigating to http://localhost/r8pc-web-app-main/R8PC/index.php in your web browser.

A screenshot of a computer

Description automatically generated

Feel free to contact (81 090 816) if you encounter any issues during the installation process.

## User Authentication and Home Page Access:

### **Accessing the Home Page:**

When you visit http://localhost/r8pc-web-app-main/R8PC/index.php (home page), the system will automatically check if you are logged in. If you are not logged in, you will be redirected to the login page.

### **Login or Signup:**

* If you already have an account, enter your login credentials.
* If you are a new user:
  + Click on the "Signup" link to go to the signup page.
  + Complete the registration process by providing the required information.

A screenshot of a login screen

Description automatically generated

### **Signup Process:**

1. On the signup page, fill in the necessary details, including a valid email address and a secure password.
2. Click on the "Signup" button to create your account.
3. Upon successful signup, you will be automatically redirected to the login page.

### **Login After Signup:**

1. Enter your newly created login credentials on the login page.
2. Click on the "Login" button.

A screen shot of a login form

Description automatically generated

### **Accessing Home Page After Login:**

After successfully logging in, you will be redirected to the home page (http://localhost/r8pc-web-app-main/R8PC/index.php), where you can explore and use the features of R8PC.

**Note:** Make sure to keep your login credentials secure and avoid sharing them with others.

## PC Operations Page (Home):

### **Welcome to the PC Operations Page:**

Upon successfully logging in and accessing the home page (http://localhost/r8pc-web-app-main/R8PC/index.php), you will find the PC Operations page.

### **Available Options:**

1. **Buy PC:**
   * Click on the "Buy PC" option to explore a variety CPUs,GPUs and LAPTOPS recommended for purchase.
   * You will be redirected to the Buy PC page.
2. **Upgrade PC:**
   * Select the "Upgrade PC" option if you wish to enhance your existing PC's capabilities.
   * Receive personalized upgrade suggestions for CPU, GPU, and RAM based on your system.
   * You will be redirected to the Upgrade PC page.
3. **Rate PC:**
   * Opt for the "Rate PC" option to evaluate the combined performance of your GPU, CPU, and RAM.
   * Assess the capabilities of your components based on what applications and games you can run.
   * You will be redirected to the Rate PC page.

 **Statistics:**

* Click on the "Statistics" option to access relevant statistics highlighting the most searched and recommended CPU, GPU components and most suggested Laptops by experienced users.
* You will be redirected to the Statistics page.

A screenshot of a computer

Description automatically generated

## Buy PC Page:

### **Explore PCs Within Your Budget:**

Navigate to the Buy PC page (http://localhost/r8pc-web-app-main/R8PC/buy\_page.php) to discover PCs within your specified budget.

### **Buying Process:**

1. **Enter Your Budget:**
   * Input your budget in dollars within the provided field.
2. **Select Favorite Software:**
   * Choose your favorite software applications or games that you plan to run on your new PC or laptop.
3. **Submit Your Preferences:**
   * Click on the "Submit" button to submit your budget and software preferences.

### **Recommendations:**

* Based on your entered budget and selected software, R8PC will provide you with recommendations for:
  + Low, Mid, and High-performance GPUs.
  + Low, Mid, and High-performance CPUs.
  + Prices equal or below your specified budget.
  + Laptops within your budget range that can efficiently run the selected software.

A screenshot of a computer

Description automatically generated

A screenshot of a computer price list

Description automatically generatedA screenshot of a computer program

Description automatically generated

## Upgrade PC Page:

### **Enhance Your PC's Performance:**

Visit the Upgrade PC page (http://localhost/r8pc-web-app-main/R8PC/upgrade\_page.php) to discover upgrade options based on your desired software and existing PC components.

### **Upgrade Process:**

1. **Enter Desired Software:**
   * Input the names of the software applications or games that you wish to run on your upgraded PC.
2. **Enter Old PC Components:**
   * Provide information on your existing PC components:
     + Old CPU.
     + Old GPU.
     + Old RAM.
3. **Submit Your Preferences:**
   * Click on the "Submit" button to submit your software preferences and existing PC components.

### **Upgrade Recommendations:**

* R8PC will analyze your existing components and desired software, providing upgrade recommendations for:
  + Low, Mid, and High-performance CPUs.
  + Low, Mid, and High-performance GPUs.
  + Low, Mid, and High-capacity RAM.

### **NOTE:**

* If your old component is better than the low , mid or high component required to run the desired software, the system won’t suggest to upgrade that old component.
* System ensures that any recommended component is better that your old component.

A screenshot of a computer program

Description automatically generated

A screenshot of a computer program

Description automatically generated

## Rate PC Page:

### **Evaluate Your PC's Performance:**

Explore the Rate PC page (http://localhost/r8pc-web-app-main/R8PC/rate\_page.php) to assess the performance of your PC components with respect to popular games and applications.

### **Rating Process:**

1. **Enter Your PC Components:**
   * Provide information on your PC components:
     + CPU.
     + GPU.
     + RAM.
2. **Submit Your Ratings:**
   * Click on the "Submit" button to submit your PC component ratings.

### **Performance Evaluation:**

* R8PC will analyze your PC components and provide ratings for popular games and applications:
  + **Compatible:**
    - The game or application is compatible with your PC components.
  + **Poor Performance:**
    - The game or application may run poorly on your PC.
  + **Good Enough:**
    - Your PC is capable of running the game or application with satisfactory performance.
  + **Great Performance:**
    - Your PC is well-suited for running the game or application with excellent performance.

A screenshot of a computer program

Description automatically generated

A screenshot of a video game

Description automatically generated

## Statistics Page:

### **Explore Relevant Statistics:**

Access the Statistics page (http://localhost/r8pc-web-app-main/R8PC/statistics\_page.php) directly from the home page to view insightful statistics related to PC components and user preferences.

### **Available Statistics:**

* **Most Recommended Components:**
  + Discover the most searched and recommended CPUs, GPUs components and most suggested Laptops for experienced users on the R8PC platform.

A screenshot of a computer

Description automatically generated

**Conclusion:**

**R8PC** is designed to empower users to build, upgrade, and assess their PCs with ease. Whether you are a novice or an experienced user, our platform offers a seamless experience to enhance and rate your PC's performance. Enjoy the journey of optimizing your components and contributing to the **R8PC** community!