|  |
| --- |
|  |
| RESTful API |
| Documentation |
|  |
| **VISHESH AHUJA** |
| **1/18/2016** |

|  |
| --- |
|  |

**Index**

|  |  |  |
| --- | --- | --- |
| **Sno.** | **Topic** | **Page** |
| 1. | Introduction | 2 |
| 2. | Using the API | 2 |
| 3. | Installing the API on your server. | 2 |
| 4. | Detailed Requests and Response | 3 |
|  | Products | 3 |
|  | Customers | 8 |
|  | Orders | 11 |

**Introduction**

This is a simple RESTful API with PHP in backend. MySQL is being used for database.

This API facilitates 3 things:

1. Product Management in inventory. (CRUD)
2. Customer Management. (CRUD)
3. Orders Management. Each customer can buy products. It is possible to view orders by a specific customer.

**Using the API**

The API is hosted on: <http://visheshahuja.tk/api/>

The detailed api requests and response are given in the later section of this document.

**Installing the API on your server**

1. To install the API on your server, copy the api folder anywhere in your server.
2. Open the url: <http://your-host-name/your-path/api/setup/index.php>
3. For example: <http://visheshahuja.tk/api/setup/index.php>
4. Remember to put index.php in the end of the URL for setup.
5. Feed in the necessary details on the page like your database host, username and password.
6. Click submit.
7. The database will be created with some test data.
8. config file will be created with access details. Make sure you have write permission in the api directory.

**Detailed Requests and Response**

|  |  |
| --- | --- |
| Title | To authenticate and login a user |
| URL | http://visheshahuja.tk/api/login/ |
| Method | POST |
| URL Params | -None- |
| Data Params | {  username: [username],  password: [plain text password]  }  **Example**  {  username: “admin”,  password: “password”  } |
| Success Response | {  "status":200,  "method":"POST",  "data":1,  "username":"admin"  } |
| Error Response | {  "status":404,  "method":"POST",  "data":0,  "username":"admin"  } |
| Notes | The data field in the response specifies whether the user is authenticated or not. |

|  |  |
| --- | --- |
| Title | Show all Products |
| URL | http://visheshahuja.tk/api/products/ |
| Method | GET |
| URL Params | -None- |
| Data Params | -None- |
| Success Response | {  "status":200,"method":"GET",  "data":[{"id":"1","name":"iPhone5s","price":"40000"},  {"id":"2","name":"Motorola","price":"15000"},  {"id":"3","name":"Oneplus 2","price":"25000"},  {"id":"4","name":"Yureka","price":"10000"}]  } |
| Error Response | {  "status":404,"method":"GET",  "data": “Not found”  } |

|  |  |
| --- | --- |
| Title | Show product by id |
| URL | http://visheshahuja.tk/api/products/:id |
| Method | GET |
| URL Params | id = [integer]  **Example:**  id = 1 |
| Data Params | -None- |
| Success Response | {  "status":200,"method":"GET",  "data":{"id":"1","name":"iPhone5s","price":"40000"}  } |
| Error Response | {  "status":404,"method":"GET",  "data": “Not found”  } |

|  |  |
| --- | --- |
| Title | Create a new product |
| URL | http://visheshahuja.tk/api/products/ |
| Method | POST |
| URL Params | -None- |
| Data Params | {  name: [textname],  price: [integer]  }  **Example**  {  name: “OnePlus X”,  price: 17000  } |
| Success Response | {  "status":200,  "method":"POST",  "data":"Saved"  } |

|  |  |
| --- | --- |
| Title | Search for product by Name |
| URL | http://visheshahuja.tk/api/products/search/ |
| Method | POST |
| URL Params | -None- |
| Data Params | {  name: [textname]  }  **Example**  {  name: “OnePlus X”  } |
| Success Response | {  "status":200,"method":"POST",  "data":[{"id":"22","name":"OnePlus X","price":"17000"}]  } |
| Error Response | {  "status":200,  "method":"POST",  "data":[]  } |

|  |  |
| --- | --- |
| Title | Edit a product |
| URL | http://visheshahuja.tk/api/products/ |
| Method | PUT |
| URL Params | -None- |
| Data Params | {  id: [integer],  name: [new name],  price: [new price]  }  **Example**  {  id: 21  name: “google”,  price: 35000  } |
| Success Response | {  "status":200,  "method":"PUT",  "data":"Saved"  } |
| Error Response | {  "status":200,  "method":"PUT",  "data":"Error"  } |

|  |  |
| --- | --- |
| Title | Delete a product |
| URL | http://visheshahuja.tk/api/products/:id |
| Method | DELETE |
| URL Params | id = [integer]  **Example:**  id = 1 |
| Data Params | -None- |
| Success Response | {  "status":200,  "method":"DELETE",  "data":"Successfully Deleted!"  } |
| Error Response | {  "status":404,  "method":"DELETE",  "data":"Not found”  } |

|  |  |
| --- | --- |
| Title | Show all Customers |
| URL | http://visheshahuja.tk/api/customers/ |
| Method | GET |
| URL Params | -None- |
| Data Params | -None- |
| Success Response | {  "status":200,  "method":"GET",  "data":[{"id":"1","name":"Alex"},  {"id":"3","name":"Jason"}]  } |
| Error Response | {  "status":404,"method":"GET",  "data": “Not found”  } |

|  |  |
| --- | --- |
| Title | Show customer by id |
| URL | http://visheshahuja.tk/api/customers/:id |
| Method | GET |
| URL Params | id = [integer]  **Example:**  id = 1 |
| Data Params | -None- |
| Success Response | {  "status":200,  "method":"GET",  "data":[{"id":"1","name":"Alex"}  } |
| Error Response | {  "status":404,"method":"GET",  "data": “Not found”  } |

|  |  |
| --- | --- |
| Title | Create a new customer |
| URL | http://visheshahuja.tk/api/customer/ |
| Method | POST |
| URL Params | -None- |
| Data Params | {  name: [textname]  }  **Example**  {  name: “Mason”  } |
| Success Response | {  "status":200,  "method":"POST",  "data":"Saved"  } |

|  |  |
| --- | --- |
| Title | Edit a customer |
| URL | http://visheshahuja.tk/api/customers/ |
| Method | PUT |
| URL Params | -None- |
| Data Params | {  id: [integer],  name: [new name]  }  **Example**  {  id: 1,  name: “Alex”  } |
| Success Response | {  "status":200,  "method":"PUT",  "data":1  } |
| Error Response | {  "status":200,  "method":"PUT",  "data":0  } |

|  |  |
| --- | --- |
| Title | Delete a customer |
| URL | http://visheshahuja.tk/api/customers/:id |
| Method | DELETE |
| URL Params | id = [integer]  **Example:**  id = 1 |
| Data Params | -None- |
| Success Response | {  "status":200,  "method":"DELETE",  "data":"Successfully Deleted!"  } |
| Error Response | {  "status":404,  "method":"DELETE",  "data":"Not found”  } |

|  |  |
| --- | --- |
| Title | Show all Orders |
| URL | http://visheshahuja.tk/api/orders/ |
| Method | GET |
| URL Params | -None- |
| Data Params | -None- |
| Success Response | {  "status":200,"method":"GET",  "data":[{"id":"8","customer\_id":"1","product\_id":"5"},  {"id":"9","customer\_id":"1","product\_id":"2"},  {"id":"10","customer\_id":"3","product\_id":"19"}]  } |
| Error Response | {  "status":404,"method":"GET",  "data": []  } |

|  |  |
| --- | --- |
| Title | Show orders by customer id |
| URL | http://visheshahuja.tk/api/orders/customer/:customer\_id |
| Method | GET |
| URL Params | customer\_id = [integer]  **Example:**  customer\_id = 1 |
| Data Params | -None- |
| Success Response | {  "status":200,"method":"GET",  "data":[{"id":"8","customer\_id":"1","product\_id":"5"},  {"id":"9","customer\_id":"1","product\_id":"2"}],  "count":"2"  } |

|  |  |
| --- | --- |
| Title | Create a new Order |
| URL | http://visheshahuja.tk/api/orders/ |
| Method | POST |
| URL Params | -None- |
| Data Params | {  customer\_id: [customer id],  product\_id: [product id]  }  **Example**  {  customer\_id: 1,  product\_id: 21  } |
| Success Response | {  "status":200,  "method":"POST",  "data":"Saved"  } |

|  |  |
| --- | --- |
| Title | Delete an Order |
| URL | http://visheshahuja.tk/api/orders/ |
| Method | DELETE |
| URL Params | id = [integer]  **Example:**  id = 1 |
| Data Params | -None- |
| Success Response | {  "status":200,  "method":"DELETE",  "data":"Successfully Deleted!"  } |
| Error Response | {  "status":404,  "method":"DELETE",  "data":"Not found”  } |