# Home24 REST API

### By Abu Sadat Mohammed Yasin

##### Version 1.

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# How to Deploy/Host the REST API.

* 1. Hosting Platform/Environment required:
     1. Apache
     2. PHP7.2.0
     3. MySQL 5.0.12
     4. OS: Any (Windows, Linux, Mac or Unix)
  2. If you use XAMPP in windows platform than all these environment will be ready altogether (1.1.1-1.1.3).
  3. You can use any other OS (ex. Linux, Mac, Unix etc.) in that case you have setup the environment according to section 1.1
  4. If the environment is ready, create a database at MySQL. In the source code (at github) there is database dump file (users.sql). Import it to your database.
  5. Open the source code and go to the location **config**, edit the db.php with your database name, user, password, and host.
  6. Now the REST API is ready to serve. If you have setup all the above things at your local machine than the REST API URL will be <http://localhost/home24/>
  7. If you want you can create virtual host or domain name in replace of “<http://localhost/home24/>”

# API Usage Documentation.

* 1. Authorization Token - an endpoint that will be used to create an authorization token using email and password.
     1. Request

|  |  |
| --- | --- |
| Method | URL |
| POST | http://localhost/home24 or virtual-host or domain-name/token |

|  |  |  |
| --- | --- | --- |
| Type | Params | Values |
| POST | email  password | string  string |

* + 1. Response

|  |  |
| --- | --- |
| Status | Response |
| 200 | {  "state": "success",  "error": {  "code": null,  "msg": null  },  "response": {  "token": "dR5LP9HSZm5g5X51pL3IbTK0S",  "token\_expiry": "2018-10-11 07:21:54"  }  }  token (string) - all further API calls must have this key in header within the token\_expiry (timestamp) |
| 405 | {  "state": "error",  "error": {  "code": 16,  "msg": "Only POST method is allowed"  },  "response": null  } |
| 400 | {  "state": "error",  "error": {  "code": 1,  "msg": "Please enter email address"  },  "response": null  } |
| 400 | {  "state": "error",  "error": {  "code": 2,  "msg": "Invalid email address"  },  "response": null  } |
| 400 | {  "state": "error",  "error": {  "code": 3,  "msg": "Please enter password"  },  "response": null  } |
| 401 | {  "state": "fail",  "error": {  "code": 4,  "msg": "Invalid email and/or password!!!"  },  "response": null  } |

* 1. CRUD - users endpoint having CRUD functionality.

2. 2. 1. Create an users
         1. Request

|  |  |
| --- | --- |
| Method | URL |
| POST | http://localhost/home24 or virtual-host or domain-name/users/create |

|  |  |  |
| --- | --- | --- |
| Type | Params | Values |
| HEAD | token | string |
| POST | full\_name  email  password | String  String  String |

* + - 1. Response

|  |  |
| --- | --- |
| Status | Response |
| 201 | {  "state": "success",  "error": {  "code": null,  "msg": null  },  "response": {  "id": "27"  }  } |
| 400 | {  "state": "error",  "error": {  "code": 10,  "msg": "Please enter full name "  },  "response": null  } |
| 400 | {  "state": "error",  "error": {  "code": 8,  "msg": "Please enter email address"  },  "response": null  } |
| 400 | {  "state": "error",  "error": {  "code": 9,  "msg": "Invalid email address"  },  "response": null  } |
| 400 | {  "state": "error",  "error": {  "code": 12,  "msg": "Password length must be greater or equal eight character in length, must inculde a number and must incude a alphabet"  },  "response": null  } |
| 401 | {  "state": "fail",  "error": {  "code": 7,  "msg": "Not a valid Token!!!"  },  "response": null  } |
| 405 | {  "state": "error",  "error": {  "code": 16,  "msg": "Only POST method is allowed"  },  "response": null  } |
| 409 | {  "state": "fail",  "error": {  "code": 13,  "msg": "User creation failed! may be user already exists."  },  "response": null  } |

* + 1. Read or List all users
       1. Request

|  |  |
| --- | --- |
| Method | URL |
| GET | http://localhost/home24 or virtual-host or domain-name/users |

|  |  |  |
| --- | --- | --- |
| Type | Params | Values |
| HEAD | token | string |

* + - 1. Response

|  |  |
| --- | --- |
| Status | Response |
| 200 | {  "state": "success",  "error": {  "code": null,  "msg": null  },  "response": [  {  "id": "22",  "full\_name": "Yasin",  "email": "yasin@gmail.com"  },  {  "id": "25",  "full\_name": "Abu",  "email": "abu@gmail.com"  }  ]  } |
| 401 | {  "state": "fail",  "error": {  "code": 7,  "msg": "Not a valid Token!!!"  },  "response": null  } |
| 405 | {  "state": "error",  "error": {  "code": 16,  "msg": "Only GET method is allowed"  },  "response": null  } |

* + 1. Read an specific user detail
       1. Request

|  |  |
| --- | --- |
| Method | URL |
| GET | http://localhost/home24 or virtual-host or domain-name/account |

|  |  |  |
| --- | --- | --- |
| Type | Params | Values |
| HEAD | token | string |
| GET | Id | Integer |

* + - 1. Response

|  |  |
| --- | --- |
| Status | Response |
| 200 | {  "state": "success",  "error": {  "code": null,  "msg": null  },  "response": [  {  "id": "22",  "full\_name": "Yasin",  "email": "yasin@gmail.com"  }  ]  } |
| 400 | {  "state": "error",  "error": {  "code": 14,  "msg": "please enter valid id for a user"  },  "response": null  } |
| 401 | {  "state": "fail",  "error": {  "code": 7,  "msg": "Not a valid Token!!!"  },  "response": null  } |
| 404 | {  "state": "fail",  "error": {  "code": 15,  "msg": "No user found"  },  "response": null  } |
| 405 | {  "state": "error",  "error": {  "code": 16,  "msg": "Only GET method is allowed"  },  "response": null  } |

* + 1. Update an specific user detail
       1. Request

|  |  |
| --- | --- |
| Method | URL |
| PUT | http://localhost/home24 or virtual-host or domain-name/users/update |

|  |  |  |
| --- | --- | --- |
| Type | Params | Values |
| HEAD | token | string |
| PUT | id  full\_name  email  password | Integer  String  String  String |

* + - 1. Response

|  |  |
| --- | --- |
| Status | Response |
| 200 | {  "state": "success",  "error": {  "code": null,  "msg": null  },  "response": {  "id": "27"  }  } |
| 400 | {  "state": "error",  "error": {  "code": 18,  "msg": "Invalid id for a user"  },  "response": null  } |
| 401 | {  "state": "fail",  "error": {  "code": 7,  "msg": "Not a valid Token!!!"  },  "response": null  } |
| 404 | {  "state": "fail",  "error": {  "code": 15,  "msg": "No user found"  },  "response": null  } |
| 405 | {  "state": "error",  "error": {  "code": 16,  "msg": "Only PUT method is allowed"  },  "response": null  } |
| 409 | {  "state": "fail",  "error": {  "code": 24,  "msg": "No new updates or No user found"  },  "response": null  } |

* + 1. Delete an specific user detail
       1. Request

|  |  |
| --- | --- |
| Method | URL |
| DELETE | http://localhost/home24 or virtual-host or domain-name/users/delete |

|  |  |  |
| --- | --- | --- |
| Type | Params | Values |
| HEAD | token | string |
| DELETE | id | Integer |

* + - 1. Response

|  |  |
| --- | --- |
| Status | Response |
| 200 | {  "state": "success",  "error": {  "code": null,  "msg": null  },  "response": {  "id": "25"  }  } |
| 401 | {  "state": "fail",  "error": {  "code": 7,  "msg": "Not a valid Token!!!"  },  "response": null  } |
| 404 | {  "state": "fail",  "error": {  "code": 24,  "msg": "No user found"  },  "response": null  } |
| 405 | {  "state": "error",  "error": {  "code": 16,  "msg": "Only DELETE method is allowed"  },  "response": null  } |

* 1. Account - an endpoint returning account information identified by authorization token.
     1. Request

|  |  |
| --- | --- |
| Method | URL |
| POST | http://localhost/home24 or virtual-host or domain-name/account |

|  |  |  |
| --- | --- | --- |
| Type | Params | Values |
| Head | token | string |

* + 1. Response

|  |  |
| --- | --- |
| Status | Response |
| 200 | {  "state": "success",  "error": {  "code": null,  "msg": null  },  "response": {  "id": "22",  "full\_name": "Yasin",  "email": "yasin@gmail.com",  "passw": "QIbqTkx89Z0RHFOhCjAKf2xFqQbQQ6",  "token": "stbENERZkKXQ1DQJY87nhO91W",  "token\_expiry": "2018-10-11 08:55:53"  }  } |
| 401 | {  "state": "fail",  "error": {  "code": 6,  "msg": "Invalid or unauthorized token!!!"  },  "response": null  } |
| 405 | {  "state": "error",  "error": {  "code": 16,  "msg": "Only POST method is allowed"  },  "response": null  } |

1. Contact – Any difficulties to understand or deploy this REST API or any question?
   1. Email me: abusadatyasin@gmail.com