**API SPECIFICATION DOCUMENTATION**

(INVENTORY MANAGEMENT SYSTEM)

GROUP MEMBERS

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METHODS

1. **LOGIN:**

**Request**

|  |  |
| --- | --- |
| METHOD | URL |
| POST | api/login |

|  |  |  |
| --- | --- | --- |
| TYPE | PARAMS | VALUES |
| POST  POST | username  password | String  Text |

**Response**

|  |  |
| --- | --- |
| Status | Response |
| 200 | An array containing the details of users. |
| 204 | {“error”: ”No such username”} |
| 400 | {“error”: ”Invalid Username or Password”} |
| 404 | {“error”: ”User doesn’t exist”} |

1. **SIGNUP:**

**Request**

|  |  |
| --- | --- |
| METHOD | URL |
| POST | api/signup |

|  |  |  |
| --- | --- | --- |
| TYPE | PARAMS | VALUES |
| POST  POST  POST  POST  POST  POST  POST  POST | username  password  first\_name  last\_name  designation  salary  sales  branched | String  Text  String  String  String  Integer  Integer  Integer |

**Response**

|  |  |
| --- | --- |
| Status | Response |
| 201 | {“User Created”} |
| 204 | {“error”: “No such branch available”} |
| 400 | {“error”: “Invalid Parameters” or “Invalid Branch id”} |

1. **BRANCHES:**

**Request**

|  |  |  |
| --- | --- | --- |
| METHOD | URL | LINK PARAMS |
| GET  POST  POST  DELETE  PATCH | api/branches  api/branches/create  api/branches/:branchid  api/branches/:branchid/delete  api/branches/:branchid/edit | branchid:Integer, branch\_name:String, branch\_phone:String, branch\_address:Text, accounts\_id:Integer  branchid:Integer  branchid:Integer  branchid:Integer |

|  |  |
| --- | --- |
| PARAMS | VALUES |
| branch\_id  branch\_name  branch\_phone  branch\_address  accounts\_id | Integer  String  String  Text  Integer |

**Response**

|  |  |
| --- | --- |
| Status | Response |
| 200 | An array containing the details of all branches. Or {“Branch Updated”} |
| 201 | {“Branch Created”} |
| 204 | {“error”: “No branch yet” or “No such branch, invalid URL” or “account doesn’t exist” or “No such branch exist”} |
| 400 | {“error”: “Invalid Parameters provided” or “Account doesn’t exist”} |
| 404 | {“error”: “Branch not found: 404 Invalid URL” or ”Invalid URL, Wrong CRUD operation” or “Invalid URL”} |
| 500 | {“error”: “Unable to delete from Branch2Product” or “Unable to delete from Branch2Company” or “Unable to edit employee branch detail” or “Unable to edit employee branch status” or “Unable to update branch invoice detail” or “Unable to edit branch invoices detail” or “Unable to update branch Stock Order detail” or “Unable to edit branch Stock Order detail” or “Unable to delete branch” or “Internal Server Error”} |

1. **BRANCH\_COMPANIES:**

**Request**

|  |  |  |
| --- | --- | --- |
| METHOD | URL | LINK PARAMS |
| POST  POST  POST | api/branches/companies  api/branches/companies/addcompany  api/branches/companies/removecompany | branch\_id:Integer  company\_id:Integer, b\_id:Integer  company\_id:Integer, b\_id:Integer |

|  |  |
| --- | --- |
| PARAMS | VALUES |
| branch\_id  b\_id  company\_id | Integer  Integer  Integer |

**Response**

|  |  |
| --- | --- |
| Status | Response |
| 200 | An array containing the details of all companies of a branch or {“Company added” or “Company removed”} |
| 400 | {“error”: “Invalid Branch Id” or “Unable to add company” or “Unable to remove company”} |
| 500 | {“error”: “Internal Server Error”} |

1. **BRANCH\_PRODUCTS:**

**Request**

|  |  |  |
| --- | --- | --- |
| METHOD | URL | LINK PARAMS |
| POST  POST  POST | api/branches/companies/products  api/branches/companies/products/addproducts  api/branches/companies/products/removeproducts | branch\_id:Integer,  company\_id:Integer  product\_id:Integer, branch\_id:Integer, unit\_price:Double, product\_quantity:Integer  product\_id:Integer, branch\_id:Integer |

|  |  |
| --- | --- |
| PARAMS | VALUES |
| branch\_id  product\_id  unit\_price  product\_quantity | Integer  Integer  Double  Integer |

**Response**

|  |  |
| --- | --- |
| Status | Response |
| 200 | {“Product added” or “Product removed”} |
| 400 | {“error”: “Unable to add product” or “Unable to remove product”} |
| 500 | {“error” : ”Cannot find product id”} |

1. **USERS:**

**Request**

|  |  |  |
| --- | --- | --- |
| METHOD | URL | LINK PARAMS |
| POST  GET  DELETE  PATCH | api/users  api/branches/:username  api/branches/:username/delete  api/branches/:username/edit | branch\_id:Integer  username:String  username: String  username: String |

**Response**

|  |  |
| --- | --- |
| Status | Response |
| 200 | {“Successfully deleted” or “Successfully Edited”} |
| 204 | {“error”: “No user yet” or “No such user exists”} |
| 400 | {“error”: “User not found” or “Invalid Branch id”} |
| 404 | {“error”: “Invalid URL” or “Invalid URL, wrong username”} |
| 500 | {“error”: “Internal Server Error”} |

1. **All\_COMPANIES:**

**Request**

|  |  |  |
| --- | --- | --- |
| METHOD | URL | LINK PARAMS |
| GET  POST  GET  DELETE  PATCH | api/all\_companies  api/all\_companies/create  api/all\_companies/:companyid  api/all\_companies/:companyid/delete  api/all\_companies/:companyid/edit | company\_id:Integer, company\_name:String, company\_phone:String, company\_address:Text  companyid:Integer  companyid:Integer  companyid:Integer |

|  |  |
| --- | --- |
| PARAMS | VALUES |
| company\_id  company\_name  company\_phone  company\_address | Integer  String  String  Text |

**Response**

|  |  |
| --- | --- |
| Status | Response |
| 200 | An array containing the details of all companies or {“Company Deleted” or “Company Edited”} |
| 201 | {“Company Created”} |
| 204 | {“error”: “No companies available”} |
| 400 | {“error”: “Invalid Inputs”} |
| 404 | {“error”: “URL not found” or “Wrong crud operation” or “URL Error, company id not found”} |
| 500 | {“error”: “Internal Server Error”} |

1. **STOCK\_ORDER:**

**Request**

|  |  |  |
| --- | --- | --- |
| METHOD | URL | LINK PARAMS |
| POST  POST  GET  DELETE  DELETE | api/order  api/view\_orders  api/view\_orders/:orderid  api/view\_orders/:ordered/delete  api/view\_orders/:ordered/delete\_all | branch\_id:Integer, order\_id:Integer, products:ObjectArray[any], total\_quantity:Integer  branch\_id:Integer  order\_id:Integer |

|  |  |
| --- | --- |
| PARAMS | VALUES |
| branch\_id  order\_id  produtcts  total\_quantity | Integer  Integer  Object  Integer |

**Response**

|  |  |
| --- | --- |
| Status | Response |
| 200 | An array containing the details of all orders or {“Order Successful” or “Order deleted” or “All Orders deleted”} |
| 204 | {“error” : ”No such product available.”} |
| 400 | {“error”: “Invalid parameters of order2prdoucts” or “Not enough cash to place order” or “No such account” or “No Branch exist” or “Cannot find such account” or “Please add Company First”} |
| 404 | {“error”: “Invalid URL, No such order exist” or “Product Not Found”} |
| 500 | {“error”: “Internal Server Error” or “Branch2Company error” or “Product error” or “unable to update product unit price” or “Unable to update products” or “Unable to update branch2product unit price” or “Unable to find brach2products” or “Unable to order stock” or “Unable to update account’s cash”} |

1. **PRODUCTS:**

**Request**

|  |  |  |
| --- | --- | --- |
| METHOD | URL | LINK PARAMS |
| POST  POST  GET  POST | api/all\_companies/:companyid/products  api/all\_companies/:companyid/products/  add\_products  api/all\_companies/:companyid/products/:productid  api/all\_companies/:companyid/products/:productid/:crud | companyid:Integer  product\_id:Integer, product\_name:String,  product\_weight:String,  unit\_price:Double  productid:Integer  productid:Integer,  crud:String  if(crud=edit) then params =  product\_name:String,  product\_weight:String,  product\_quantity:Integer, unit\_price:Integer |

|  |  |
| --- | --- |
| PARAMS | VALUES |
| product\_id  product\_name  product\_weight  product\_quantity  unit\_price  company\_id | Integer  String  String  Text  Double  Integer |

**Response**

|  |  |
| --- | --- |
| Status | Response |
| 200 | {“Product edited successfully”} |
| 201 | {“Product added”} |
| 204 | {“error”: “No Products available” or “No such product”} |
| 400 | {“error”: “Invalid company ID” or ”Invalid Parameters” or “Invalid Product ID”} |
| 404 | {“error”: “Invalid URL, wrong crud operation” or “Invalid URL”} |
| 500 | {“error”: “Internal Server Error, unable to edit product”} |

1. **. ACCOUNTS:**

**Request**

|  |  |  |
| --- | --- | --- |
| METHOD | URL | LINK PARAMS |
| POST  POST  POST  POST  DELETE | api/accounts  api/accounts/create  api/accounts/addcash  api/accounts/withdrawcash  api/:accounts/delete | branch\_id:Integer  account\_id:Integer, cash:Double  account\_id:Integer, cash:Double  account\_id:Integer, cash:Double  account:Integer |

|  |  |
| --- | --- |
| PARAMS | VALUES |
| branch\_id  account\_id  cash | Integer  Integer  Double |

**Response**

|  |  |
| --- | --- |
| Status | Response |
| 200 | {“Withdraw Success”} |
| 201 | {“Account Created”} |
| 204 | {“error”: “No accounts available”} |
| 400 | {“error”: “No Such Account Exist” or “No Such Branch Exist” or “No Such Account Available”} |
| 406 | {“error”: “No such Amount Available to Withdraw”} |
| 500 | {“error”: “Internal Server Error” or “Internal Server Error: Unable to Add Cash” or “Internal Server Error: Unable to Withdraw Cash” or “Unable to update branch” or “Unable to delete Account”} |

**11. INVOICES:**

**Request**

|  |  |  |
| --- | --- | --- |
| METHOD | URL | LINK PARAMS |
| GET  GET  POST  DELETE  PATCH  DELETE  POST  POST | api/invoice  api/invoice/:branch\_invoices  api/invoice/create  api/invoice/:invoiceid/delete  api/invoice/:invoiceid/edit  api/invoice/delete\_all  api/invoice/get\_invoice\_detail  api/invoice/branch\_product | branch\_invoice:Integer  invoice\_id:Integer, date:Date,  branch\_id:Integer, invoice:ObjectArray[any]  total\_invoice\_price:Double, total\_invoice\_items:Integer, username:String  invoice\_id:Integer  invoice\_id:Integer  invoice\_id:Integer  product\_id:Integer,  branch\_id:Integer,  product\_qty:Integer |

|  |  |  |
| --- | --- | --- |
| TYPE | PARAMS | VALUES |
| POST  POST  POST  POST  POST  POST  POST  POST  POST  POST | branch\_invoice  invoice\_id  date  branch\_id  invoice  totoal\_invoce\_price  totoal\_invoce\_items  username  product\_qty  product\_id | Integer  Integer  Date  Integer  Object  Double  Integer  String  Integer  Integer |

**Response**

|  |  |
| --- | --- |
| Status | Response |
| 200 | An array containing the details of all invoices or {“Invoice created” or “Invoice deleted” } |
| 204 | {“error”: “No invoice yet”} |
| 400 | {“error”: “No such product id” or “Unable to create invoice2products” or “No Such Account” or “No such branch” or “No such username” or “Unable to create Invoice” or “Invalid Product Quantity” or “Branch2Product does not exist”} |
| 404 | {“error”: “Invalid URL”} |
| 500 | {“error”: “Internal Server Error” or “Unable to create invoice” or “Unable to delete invoice” or “Unable to delete invoice2products” or “Unable to delete all invoices”} |