

# Bamazon Application

User Guide

A simple but functional inventory management and order placement system  
developed using node js and mysql as the database.

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## 1. Requirements:

For detailed specification and requirements please refer to the following link.

[https://miami.bootcampcontent.com/Miami-Boot-Camp/MIACOR201801FSF3-Class-Repository-FSF/blob/master/12-Week-mysql/homeWork/homework\\_instructions.md](https://miami.bootcampcontent.com/Miami-Boot-Camp/MIACOR201801FSF3-Class-Repository-FSF/blob/master/12-Week-mysql/homeWork/homework_instructions.md)

## 2. Assumptions:

- 1) The customer is accustomed to using command line interface for now.
- 2) Navigate to the source directory of the application.
- 3) Invoke the command line or the Gitbash utility.

## 3. Module One: Customer Module:

This module can be invoked using the following command at the CLI.

```
Manoj@DESKTOP-7A2BNJ2 MINGW64 ~/Desktop/code/assignment_week_12_sql_node (master)
$ node bamazon_customer.js
```

This module has 2 functions built into the application.

- 1) Displaying the Inventory List.
- 2) Order placement for Customer.

From the CLI, please type the following to initiate the program as below.

### 1.1 Functionality: Displaying Inventory List

```
.....
Existing Inventory:
.....
Item ID: 1 // Product Name: Dove Shampoo // Department: Cosmetics // Price: $5.75
Item ID: 2 // Product Name: Dove Conditioner // Department: Cosmetics // Price: $6.25
Item ID: 3 // Product Name: Glad 12 Gal Trash Bags // Department: Grocery // Price: $5.99
Item ID: 4 // Product Name: Brawny Paper Towels // Department: Grocery // Price: $4.25
Item ID: 5 // Product Name: Granny Smith Apples // Department: Produce // Price: $0.35
Item ID: 6 // Product Name: Chiquita Bannana // Department: Produce // Price: $0.2
Item ID: 7 // Product Name: Tropicana Orange Juice // Department: Grocery // Price: $4.45
Item ID: 8 // Product Name: Horizon Organic Milk // Department: Grocery // Price: $4.5
Item ID: 9 // Product Name: Huggies Diapers // Department: Children // Price: $2.75
Item ID: 10 // Product Name: Charmin Toiler Paper // Department: Grocery // Price: $12.99
Item ID: 11 // Product Name: Pampers Baby Wipes // Department: Children // Price: $1.5
Item ID: 12 // Product Name: Yoga Mat // Department: Sports // Price: $12.75
Item ID: 13 // Product Name: Soccerballs // Department: Sports // Price: $7.99
Item ID: 14 // Product Name: Cotton Shirt // Department: Clothing // Price: $5.55
Item ID: 15 // Product Name: Nike Shorts // Department: Clothing // Price: $17.88
Item ID: 16 // Product Name: Purina Cat Chow // Department: Pet // Price: $7.25
Item ID: 17 // Product Name: Fancy Feast Wet Cat Food // Department: Pet // Price: $12.5
Item ID: 18 // Product Name: Ibuprophen // Department: Pharmacy // Price: $4.95
Item ID: 19 // Product Name: Band Aid // Department: Pharmacy // Price: $3.25
Item ID: 20 // Product Name: Ben & Jerry Ice Cream // Department: Grocery // Price: $3.25
```

### 3.2 Functionality: Order Placement

Based on the product number, that is unique, the orders can be placed.

```
? Please enter the Item ID which you would like to purchase. 2
? How many do you need? 2
Congratulations, the product you requested is in stock! Placing order!
updateQueryStr = UPDATE products SET stock_quantity = 625,product_sales = 12.5 WHERE id = 2
Your oder has been placed! Your total is $12.5
Thank you for shopping with us!
```

Few validations also occur at the order placement.

1. Check if the product exists in the inventory list.

```
? Please enter the Item ID which you would like to purchase. 400
? How many do you need? 400
ERROR: Invalid Item ID. Please select a valid Item ID.
.....
```

2. If there is sufficient quantity of inventory available to meet the order.

```
? Please enter the Item ID which you would like to purchase. 13
? How many do you need? 4000
Sorry, there is not enough product in stock, your order can not be placed as is.
Please modify your order.
.....
```

3. Quantity cannot be entered in fractions.

```
? Please enter the Item ID which you would like to purchase. 2
? How many do you need? |
>> No Fractions Allowed , please enter integers.
```

## 4. Module Two: Manager Module:

The manager module can be invoked using the following command at the CLI.

```
Manoj@DESKTOP-7A2BNJ2 MINGW64 ~/Desktop/code/assignment_week_12_sql_node (master)
$ node bamazon_manager.js
```

This module has 4 functions built into the application.

- 1) View Products for Sale
- 2) View Low Inventory
- 3) Add to Inventory
- 4) Add New Product

From the CLI, please type the following to initiate the program as below.

### 2.1 Functionality: Displaying Products for Sale

```
Manoj@DESKTOP-7A2BNJ2 MINGW64 ~/Desktop/code/assignment_week_12_sql_node (master)
$ node bamazon_manager.js
? Please select an option: (Use arrow keys)
> View Products for Sale
  View Low Inventory
  Add to Inventory
  Add New Product
```

Selecting the highlighted menu option will display the items for sale.

```
*** Existing Inventory ***
.....
Item ID: 1 // Product Name: Dove Shampoo // Department: Cosmetics // Price: $5.75 // Stock: 498
Item ID: 2 // Product Name: Dove Conditioner // Department: Cosmetics // Price: $6.25 // Stock: 625
Item ID: 3 // Product Name: Glad 12 Gal Trash Bags // Department: Grocery // Price: $5.99 // Stock: 300
Item ID: 4 // Product Name: Brawny Paper Towels // Department: Grocery // Price: $4.25 // Stock: 400
Item ID: 5 // Product Name: Granny Smith Apples // Department: Produce // Price: $0.35 // Stock: 800
Item ID: 6 // Product Name: Chiquita Bannana // Department: Produce // Price: $0.2 // Stock: 10000
Item ID: 7 // Product Name: Tropicana Orange Juice // Department: Grocery // Price: $4.45 // Stock: 267
Item ID: 8 // Product Name: Horizon Organic Milk // Department: Grocery // Price: $4.5 // Stock: 200
Item ID: 9 // Product Name: Huggies Diapers // Department: Children // Price: $2.75 // Stock: 476
Item ID: 10 // Product Name: Charmin Toiler Paper // Department: Grocery // Price: $12.99 // Stock: 575
Item ID: 11 // Product Name: Pampers Baby Wipes // Department: Children // Price: $1.5 // Stock: 423
Item ID: 12 // Product Name: Yoga Mat // Department: Sports // Price: $12.75 // Stock: 150
Item ID: 13 // Product Name: Soccerballs // Department: Sports // Price: $7.99 // Stock: 89
Item ID: 14 // Product Name: Cotton Shirt // Department: Clothing // Price: $5.55 // Stock: 120
Item ID: 15 // Product Name: Nike Shorts // Department: Clothing // Price: $17.88 // Stock: 250
Item ID: 16 // Product Name: Purina Cat Chow // Department: Pet // Price: $7.25 // Stock: 157
Item ID: 17 // Product Name: Fancy Feast Wet Cat Food // Department: Pet // Price: $12.5 // Stock: 163
Item ID: 18 // Product Name: Ibuprophen // Department: Pharmacy // Price: $4.95 // Stock: 389
Item ID: 19 // Product Name: Band Aid // Department: Pharmacy // Price: $3.25 // Stock: 545
Item ID: 20 // Product Name: Ben & Jerry Ice Cream // Department: Grocery // Price: $3.25 // Stock: 432
```

## 4.2 Functionality: View Low Inventory

This option provides the manager a list of all products that are less than 100 numbers in quantity at the store.

```
? Please select an option: View Low Inventory
.....
*** Low Inventory Items (below 100): ***
.....
Item ID: undefined // Product Name: Soccerballs // Department: Sports // Price: $7.99 // Quantity: 89
```

## 4.3 Functionality: Add to Inventory

This option provides the manager an option to update the stock inventory of any product in the store.

```
? Please select an option: Add to Inventory
? Please enter the Item ID for stock_count update. 13
? How many would you like to add? 1
Updating Inventory...
Stock count for Item ID 13 has been updated to 90.
```

## 4.4 Functionality: Add New Product

This option provides the manager an option to add a new product the store for sale.

```
Manoj@DESKTOP-7A2BNJ2 MINGW64 ~/Desktop/code/assignment_week_12_sql_node (master)
$ node bamazon_manager.js
? Please select an option: Add New Product
? Please enter the new product name. Single Malt
? Which department does the new product belong to? Liquor
? What is the price per unit? 45.00
? How many items are in stock? 100
Adding New Item:
  product_name = Single Malt
  department_name = Liquor
  price = 45.00
  stock_quantity = 100
New product has been added to the inventory under Item ID 21.
```



## 5. Module Three: Supervisor Module

This module can be invoked using the following command at the CLI.

```
$ node bamazon_supervisor.js
? What is the action to be performed ?
> (*) Add a New Department
( ) View Revenue by Department
```

This module has 2 different functions built into the application.

- 1) Create a new department.
- 2) View Product Sales by Department.

### 3.1 Create a new department.

On selecting the add new department option from the menu, the use is prompted for the new details required to create the new department.

```
? What is the action to be performed ? Add a New Department
Adding a New Department
? What is the New Department Name? Garden
? What is the New Department overhead? 100
New department has been added under dept ID 18.
```

### 3.2 View product Sales by Department.

```
PS C:\Users\Manoj\desktop\code\assignment_week_12_sql_node> node bamazon_supervisor.js
? What is the action to be performed ?
View Revenue report
-----
*** Revenue Report By Department ***
-----

Dept ID: 3 // Dept Name: Children // Dept Cost: 8 // Dept Sale: 400 // Dept Profit: 392
Dept ID: 5 // Dept Name: Clothing // Dept Cost: 10 // Dept Sale: 300 // Dept Profit: 290
Dept ID: 1 // Dept Name: Grocery // Dept Cost: 6 // Dept Sale: 300 // Dept Profit: 294
Dept ID: 12 // Dept Name: Liquor // Dept Cost: 10 // Dept Sale: null // Dept Profit: null
Dept ID: 6 // Dept Name: Pet // Dept Cost: 12 // Dept Sale: 100 // Dept Profit: 88
Dept ID: 7 // Dept Name: Pharmacy // Dept Cost: 15 // Dept Sale: 100 // Dept Profit: 85
Dept ID: 2 // Dept Name: Produce // Dept Cost: 7 // Dept Sale: 500 // Dept Profit: 493
Dept ID: 4 // Dept Name: Sports // Dept Cost: 9 // Dept Sale: 150 // Dept Profit: 141
```



A validation also occurs at the time of new department creation.

**1. Check if the department exists in the department table.**

```
PS C:\Users\Manoj\desktop\code\assignment_week_12_sql_node> node bamazon_supervisor.js
? What is the action to be performed ? Add a New Department
Adding a New Department
? What is the New Department Name? Liquor
? What is the New Department overhead? 10
Department already exists, No duplication allowed
```