

User Guide for Amazon Internal Classifieds:

1. Requirements:

- a. Java Development Kit (JDK) installed on your system.
- b. Microsoft SQL Server installed on your system.
- c. JDBC driver for SQL Server.

2. Setup:

- a. Create a new database in MS SQL Server and name it "AmazonClassifieds".
- b. User/Admin need to set the Classpath for the project, Load the driver for MSSQL in the DatabaseConnection.java file and change the DB_URL in DatabaseConnection.java file. For eg:-

```
"jdbc:sqlserver://localhost:1433;databaseName=ma  
ster;user=sa;password=Amazon@12345;trustServerCe  
rtificate=true"
```

Edit the databaseName, user and password.

- c. Create the necessary tables in the "AmazonClassifieds" database using the following SQL statements:

Users Table :-

```
CREATE TABLE Users(  
    userId INT IDENTITY(1,1) PRIMARY KEY NOT NULL,  
    username varchar(50),  
    password varchar(30),  
    email varchar(50),  
    phone varchar(15),  
    isActive INT NOT NULL,  
    balance DECIMAL(10,2) DEFAULT 0.0  
);
```

Classifieds Table:-

```
CREATE TABLE Classifieds (  
    classifiedId INT IDENTITY(1,1) PRIMARY KEY,  
    headline VARCHAR(100) NOT NULL,  
    productName VARCHAR(50) NOT NULL,  
    brand VARCHAR(25),  
    condition VARCHAR(25),  
    description VARCHAR(500) NOT NULL,  
    price FLOAT NOT NULL,  
    category VARCHAR(100) NOT NULL,  
    userId INT FOREIGN KEY REFERENCES master.dbo.Users(userId),  
    approvalStatus VARCHAR(25),  
    inventoryStatus VARCHAR (25)  
);
```

Transactions Table:-

```
CREATE TABLE Transactions (  
    transactionId INT IDENTITY(111,2) PRIMARY KEY NOT NULL,  
    productId INT,  
    sellerId INT,  
    buyerId INT,  
    amount DECIMAL(10,2),  
    transactionDate DATETIME,  
    FOREIGN KEY (productId) REFERENCES Classifieds(classifiedId)  
);
```

- d. Download and add the JDBC driver for SQL Server to your project.
- e. Download and add the source code for the "Amazon Internal Classifieds" project to your IDE.

3. Running the Program:

- a. Run the "AmazonInternalClassifieds.java" file in your IDE.
- b. The program will display three options: Administrator, User, and Exit.
- c. If you select User, you will be prompted to choose between Register, Login, and Back to Main menu.
- d. If you select Register, you will be prompted to enter your Username, Password, Email, and Phone Number. Once you have provided this information, you will be redirected to the User menu.
- e. If you select Login, you will be prompted to enter your Username and Password. If your credentials are correct, you will be redirected to the User menu. If not, you will receive an error message.
- f. Once you are in the User menu, you will be presented with several options: Manage Profile, Post Classified, View All Classifieds, View My Classifieds, Buy Product, Payment Options, and Back to Previous menu.
- g. If you select Manage Profile, you will be prompted to verify your Username and Password, and then you will be able to update your Email, Phone, or Username.
- h. If you select Post Classified, you will be prompted to enter the required details of the product you want to post, and the product will be added to the database for approval by the Administrator.
- i. If you select View All Classifieds, you will be able to view all the products that have been approved by the Administrator and are currently in stock.
- j. If you select View My Classifieds, you will be able to view all the products that you have posted.
- k. If you select Buy Product, you will be prompted to select the product you want to buy from a list of available products. If you have enough balance in your wallet, the product will be added to your account and your wallet balance will be updated.
- l. If you select Payment Options, you will be able to check your current wallet balance and add more money to your account if you wish to.
- m. If you select Back to Previous menu, you will be taken back to the previous menu.

4. Note:

- a. The program has been built using JDBC and MS SQL Server, so it is important to ensure that the SQL Server is running and that you have the necessary JDBC driver installed before running the program.
- b. All input fields have validation and will only accept the correct format of data, so it is important to enter the correct format of data to avoid errors.
- c. The Administrator account is not accessible through the program and can only be accessed through direct database access.

- d. The program does not have the functionality to delete or modify existing classifieds. However, the Administrator can modify the status of classifieds to approve or reject them.

Administrator :-

- a. If the user selects 1, then it will prompt two options:
 1. Login
 0. Back to Main menu

Admin can only log in through the hard-coded AdminId and AdminPassword in the program code.

Admin will be provided three attempts to login. If it fails to login, it will redirect the user to the previous menu. If Admin credentials are correct, an admin menu will be prompted, which has below functionality:

1. **Approve classified:** If admin selects this option, admin will have to enter a classified id. If the classified id is valid, then the classified will be approved in the database. If the id is invalid, it will throw an error.
2. **Reject classified:-** If admin selects this option, admin will have to enter a classified id. If the classified id is valid, then the classified will be rejected in the database. If the id is invalid, it will throw an error.
3. **Activate users:-** If admin selects this option, admin will have to enter a user id. If the user id is valid, then the user will be activated in the database. If the id is invalid, it will throw an error.
4. **Deactivate users:-** If admin selects this option, admin will have to enter a user id. If the user id is valid, then the user will be deactivated in the database. If the id is invalid, it will throw an error.
5. **Add classified:-** If admin selects Add Classified, admin will be prompted to enter the required details of the product admin want to post, and the product will be added to the database for approval by the Administrator.
6. **Remove classified:-** If admin selects this option, admin will have to enter a classified id. If the classified id is valid, then the classified will be removed in the database. If the id is invalid, it will throw an error.
7. **Manage Category of Classified:-** If admin selects this option, admin will have to enter the classified id and category name. If the classified id is valid, then the classified will be updated in the database. If the id is invalid, it will throw an error.
8. **Generate Reports:-** The "Generate report" function is available only for the Admin user. Upon selecting this option, the app will prompt another menu with the following options:

- a. View all classified: This will display all classified details, including whether they have been approved or not, and whether they are currently in stock or not.
- b. View all user details: This will display all user details, including whether they are currently active or not.
- c. View all transaction details: This will display all transaction details from the transactions table.
- d. View items in stock: This will display all the items that are currently available in stock in the classifieds table.
- e. View sold items: This will display all the sold items from the classifieds table.

Upon selecting any of the above options, the report will be generated and displayed to the Admin user. To return to the previous menu, the Admin can enter "0".

If the Admin enters an invalid option, an error message will be displayed ("Please enter a valid option").