

## Desktop Application Development using ASP.Net

### Project 1: Stock Management System

**Name of Project:** Stock Management System

**Type of application:** Desktop Application

**Technology Stack:** C#, Windows Form, MS SQL Server

Team will be scored using following scoring benchmark.

| SL# | Story Name                    | Score     |
|-----|-------------------------------|-----------|
| 1   | Setup Category                | 2         |
| 2   | Setup Company                 | 2         |
| 3   | Setup Item                    | 4         |
| 4   | Stock In                      | 5         |
| 5   | Stock Out                     | 5         |
| 6   | Search & View Items Summary   | 6         |
| 7   | View Between Two Dates Report | 6         |
|     | <b>Total</b>                  | <b>30</b> |

Each member score (50) = Team Score (30) + Individual Score (20)

Individual score will be counted as your contribution.

Every team member must contribute equally. During project presentation, everyone will be asked about his/her contribution and score accordingly. During presentation, you will run your application and will show what you have completed so far. We will ask you about the source code and code quality, database design and data quality, member's contribution (github & trello). **Please note that if any members don't write any code will score zero. Your git repository and trello is the proof of your work.**

### Description of Project:

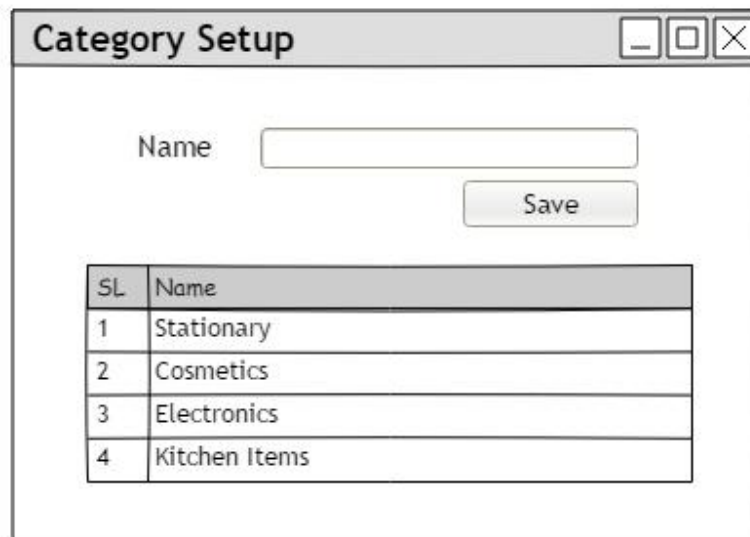
Small shops sometimes face difficulties to manage their stock (In, Out and available items). So, you are asked to provide them a Desktop application which has the following features:

### User Story/Feature List

| SL | Story Name                    |
|----|-------------------------------|
| 1  | Category Setup                |
| 2  | Company Setup                 |
| 3  | Item Setup                    |
| 4  | Stock In                      |
| 5  | Stock Out                     |
| 6  | Search & View Items Summary   |
| 7  | View Between Two Dates Report |

#### 1. Category Setup

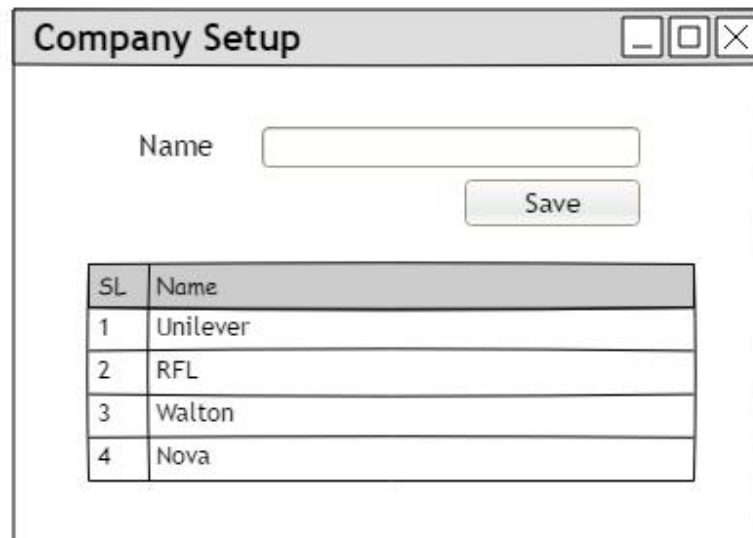
Initially all category will be saved into the system. Category name must be unique. In this UI, all categories will be shown also. Please note that if user wants, (s) he can be able to edit any Category by double clicking on it or clicking on button.



| SL | Name          |
|----|---------------|
| 1  | Stationary    |
| 2  | Cosmetics     |
| 3  | Electronics   |
| 4  | Kitchen Items |

## 2. Company Setup

Using this UI, user will save new company information and also view all companies' name. Edit feature is not needed here. Company name will be unique. Please note that if user wants, (s) he can be able to edit any Company by double clicking on it or clicking on button.



The 'Company Setup' window features a title bar with standard window controls. Below the title bar, there is a text input field labeled 'Name' and a 'Save' button. At the bottom, a table displays a list of companies.

| SL | Name     |
|----|----------|
| 1  | Unilever |
| 2  | RFL      |
| 3  | Walton   |
| 4  | Nova     |

## 3. Item Setup

Item name will be save using this UI. User will select Category and Company name, then will enter new Item name. Item name must be unique. Please note that by default, reorder level will be 0, but user can enter new value. [Note : Reorder Level / Reorder Point / Buffer Level is the level of inventory which triggers an action to replenish/restock that particular inventory stock]



The 'Item Setup' window features a title bar with standard window controls. Below the title bar, there are four input fields: 'Category' and 'Company' are dropdown menus, 'Item Name' is a text input field, and 'Reorder Level' is a text input field. A 'Save' button is located at the bottom right.

#### 4. Stock In

When any items will be arrived, user will count them and enter the quantity into the system using this UI. After Item selection, reorder level and available quantity will be shown (Read-Only) and Grid will show all previous Items. User then enters counted items and saves into the system.

[Note : Available quantity = On Hand quantity - Allocated quantity]

Stock In

Company

-Select-

Caterogy

-Select-

Item

-Select-

Reorder Level

<View>

Available Quantity

<View>

Stock In Quantity

Save

| Sl | Item   | Date   | Quantity | Action |
|----|--------|--------|----------|--------|
| 1  | Pencil | 1/3/19 | 150      | Edit   |
| 2  | Pencil | 1/2/19 | 100      | Edit   |
| .  | .      | .      | .        | .      |

## 5. Stock Out:

In a small shop, items are going out of stock for: Sales, damage or for losing them. User will enter quantity and press *Add* button, items with quantity and company name will be added into the following grid. If out quantity goes below or equal to Re-order level alert user with “Please restock this item.” message. After adding several items into the grid, user will press *Sell/Damage/Lost* button and then data will be saved into the database.

Stock Out

Company

-Select-

Caterogy

-Select-

Item

-Select-

Reorder Level

<View>

Available Quantity

<View>

Stock Out Quantity

Add

| Sl | Item   | Company   | Quantity |
|----|--------|-----------|----------|
| 1  | Pencil | Good Luck | 150      |
| 2  | Pen    | Good Luck | 100      |
| 3  | Eraser | Good Luck | 120      |

Sell

Lost

Damage

## 6. Search & View Items Summary

It is a report (search and view only). User will select company and category, and press *Search* button. All related information will be displayed. Note that, user may select only company or only category name or both (Only company wise category will be shown). If no result is available then show “No data found”

The screenshot shows a window titled "Search and View Items Summary". Inside the window, there are two dropdown menus labeled "Company" and "Category", each with a downward arrow icon. Below these is a "Search" button. At the bottom of the window is a table with the following structure:

| SL | Item | Company | Category | Available Quantity | Reorder Level |
|----|------|---------|----------|--------------------|---------------|
| 1  |      |         |          |                    |               |
| 2  |      |         |          |                    |               |
| 3  |      |         |          |                    |               |
| 4  |      |         |          |                    |               |
| 5  |      |         |          |                    |               |

## 7. View Between Two Dates Report:

This is a report (search and view only). User will select any two dates (*From Date* must be equal or smaller than *To Date*), Sold/Damaged/Lost Option (Default option is Sold) and press Search button. Only Sold/Damaged/Lost items with Sold/Damaged/Lost quantity will be displayed. Note that Items which is not sold between dates will not be displayed. If no result is available then show “No data found”

View Between Two Dates Report

From Date

/ /

To Date

/ /

☒ Sold

☐ Damaged

☐ Lost

Search

| Sl | Item   | Company   | Sold/Damaged/Lost Quantity |
|----|--------|-----------|----------------------------|
| 1  | Pencil | Good Luck | 150                        |
| 2  | Pen    | Good Luck | 100                        |

**Some optional tasks (no score will be added, but we will appreciate the team who could do these):**

1. You can introduce, login feature (just user id and password), no need to design UI for User creation. Just keep two/three user info into database.
2. During database insert/update operations, you can save server date-time and logged in user id every time with each row.
3. Introduce Export in PDF for last two reports.

**<HAPPY CODING>**