

Web Application Development using ASP.Net

Project 1: Stock Management System

Name of Project: Stock Management System

Type of application: Web Application

Technology Stack: C#, Web 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 Sales Between Two Dates | 6 |
| | Total | 30 |

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, database design and code quality, member's contribution. **Please note that if any members don't write any code will score zero.**

Description of Project:

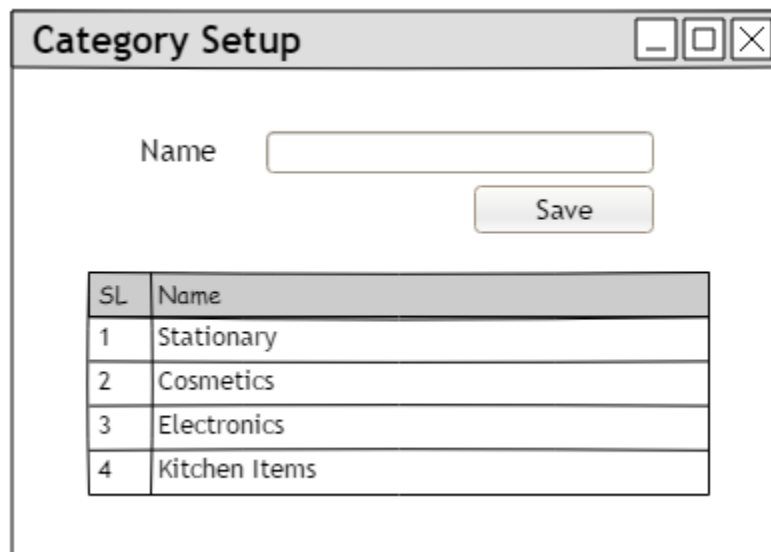
Small shops sometimes face difficulties to manage their stock (In, Out and available items). So, you are asked to provide them a web application which has the following features:

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 Sales Between Two Dates |

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.

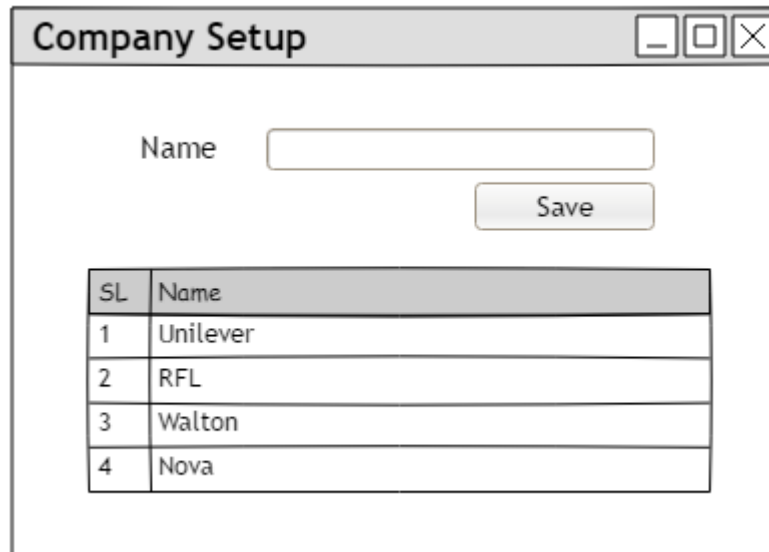


The image shows a UI mockup for a 'Category Setup' window. The window has a title bar with the text 'Category Setup' and standard minimize, maximize, and close buttons. Inside the window, there is a label 'Name' followed by a text input field. Below the input field is a 'Save' button. At the bottom of the window, there is a table with two columns: 'SL' and 'Name'. The table contains four rows of data.

| 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.

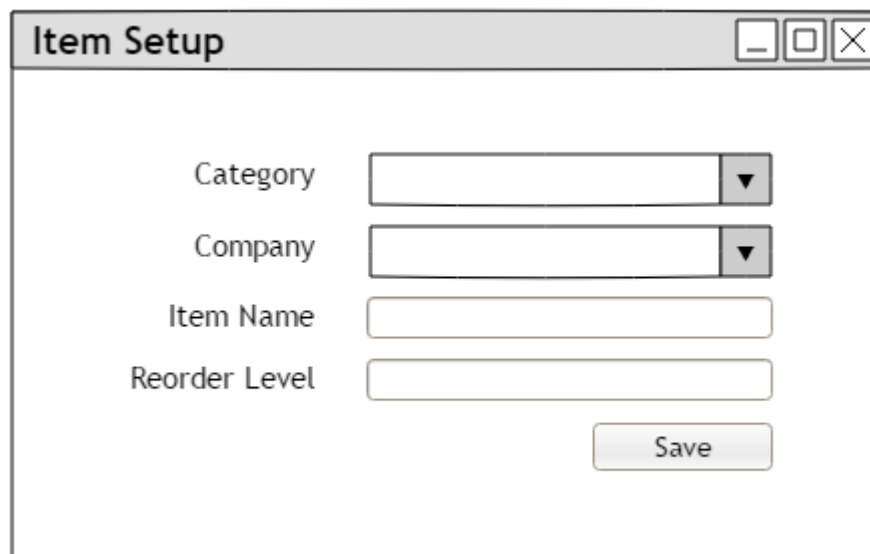


The 'Company Setup' window features a title bar with standard window controls. It contains a 'Name' label followed by a text input field. To the right of the input field is a 'Save' button. Below these elements is a table with two columns: 'SL' and 'Name'. The table contains four rows of data.

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

3. Item Setup

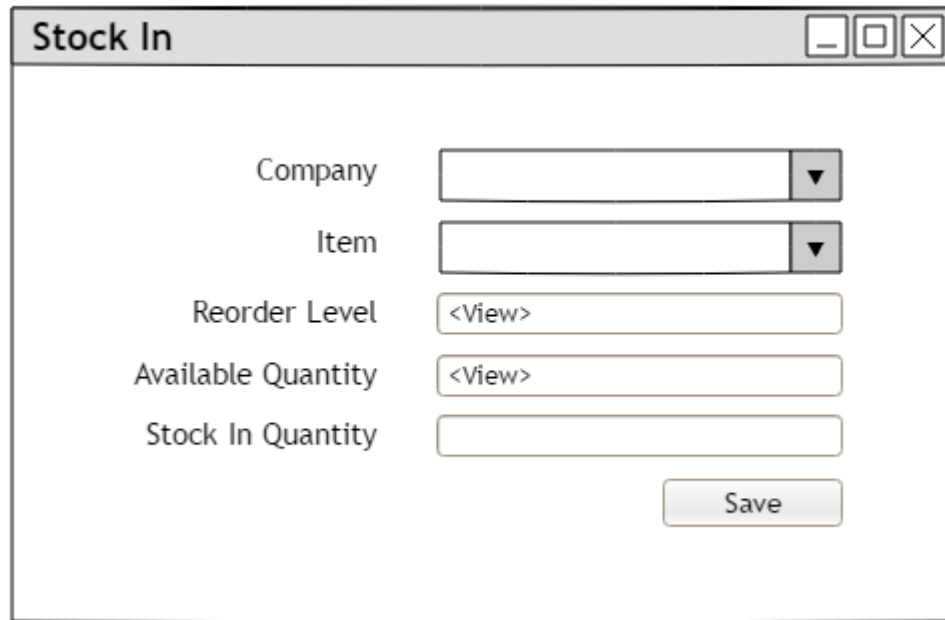
Item name will be save using this UI. User will select Category and Company name, then will enter new Item name. Please note that by default, reorder level will be 0, user can edit it. Item name must be unique.



The 'Item Setup' window features a title bar with standard window controls. It contains four labels with corresponding input fields: 'Category' and 'Company' are dropdown menus, while 'Item Name' and 'Reorder Level' are text input fields. A 'Save' button is located at the bottom right of the form area.

4. Stock In

When any items will be arrived, user will count them and enter into the system using this UI. After Item selection, reorder level and available quantity will be shown. User then enters counted items and saves into the system.



The image shows a software window titled "Stock In" with standard minimize, maximize, and close buttons in the top right corner. The form contains five input fields arranged vertically. The first two are dropdown menus for "Company" and "Item". The next two are text boxes containing the placeholder "<View>" for "Reorder Level" and "Available Quantity". The final field is an empty text box for "Stock In Quantity". A "Save" button is located at the bottom right of the form area.

| | |
|--------------------|---|
| Company | <input type="text"/> |
| Item | <input type="text"/> |
| Reorder Level | <input type="text" value="<View>"/> |
| Available Quantity | <input type="text" value="<View>"/> |
| Stock In Quantity | <input type="text"/> |

Save

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. 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

▼

Item

▼

Reorder Level

<View>

Available Quantity

<View>

Stock Out Quantity

Add

| SL | Item | Company | Quantity |
|----|------|---------|----------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |

Sell

Damage

Lost

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.

Search and View Items' Summary

Company

▼

Category

▼

Search

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

7. View Sales Between Two Dates:

This is a report (search and view only). User will select any two dates (*From Date* must be equal or smaller than *To Date*) and press Search button. Only sold items with sold quantity will be displayed. Note that Items which is not sold between dates will not be displayed.

View Sales Between Two Dates

From Date

Datepicker

To Date

Datepicker

Search

| SL | Item | Sale Quantity |
|----|------|---------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

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>