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**Course:** CSC 317 Foundations of Software Development

## **Front-End Design Document for Smart Stock**

### **Project Background**

Smart Stock is a user-friendly, real-time inventory management application designed for small businesses, especially those in regions where inventory is still tracked manually using outdated methods like paper logs or spreadsheets. These traditional methods are inefficient, prone to human error, and lack real-time data accessibility. Smart Stock aims to solve this problem by offering features like secure authentication, CRUD (Create, Read, Update, Delete) operations, low-stock alerts, barcode scanning, document uploads, and more. Developed using .NET MAUI, C#, and MSAL.Net, Smart Stock is both technically robust and accessible to non-technical users, empowering small business owners to make better, data-driven decisions while minimizing administrative overhead.

## View Prototype

### i) Prototype PT1

**Title:** Register Page

SmartStock

### Register

Username:

Company Name:

Email:

Password:

Confirm Password:

Already Have A Account? [Login](#)

### Description:

This registration page allows new users to create an account by entering their username, company name, email, password, and confirmation password. It is designed with a clean and structured layout to make the registration process simple and user-friendly. This page fulfills the authentication feature from the proposal by securely onboarding users and offering a direct link to the login page.

**Author:** Rabindra Giri, Saleep Shrestha

## ii) Prototype PT2

**Title:** Login Page

SmartStock

### Log In

Username:

Password:

[Forgot Password?](#)

Don't have an account? [Register](#)

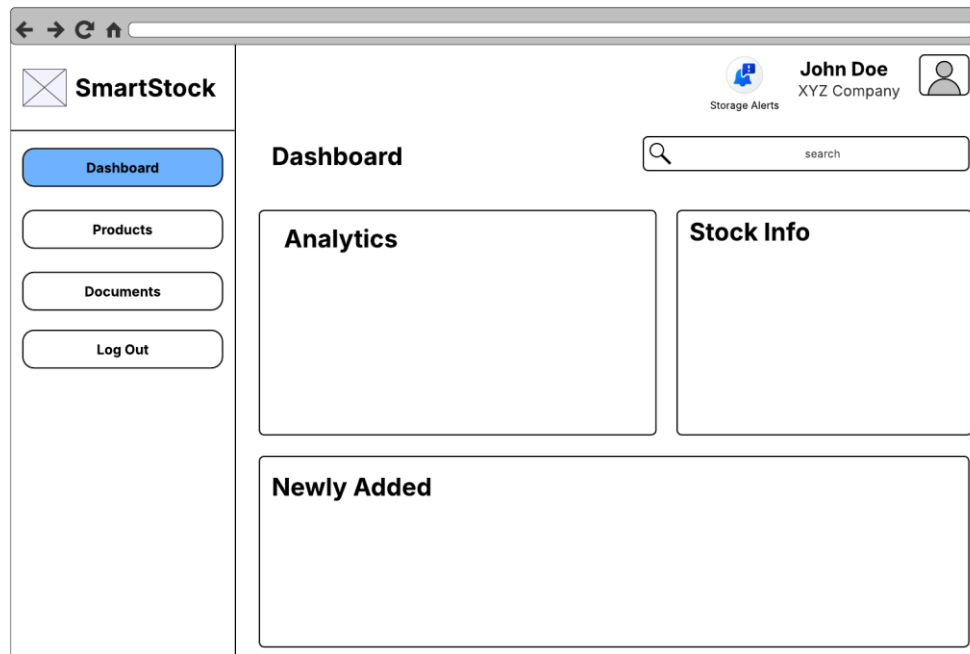
### Description:

Login page allows existing users to securely access their Smart Stock account using their username and password. It also includes a "Forgot Password" option for account recovery and a link to register for new users. The Login page implements the secure authentication functionality that we plan to use in our program.

**Author(s):** Rabindra Giri, Saleep Shrestha

### iii) Prototype PT3

**Title:** Dashboard Page



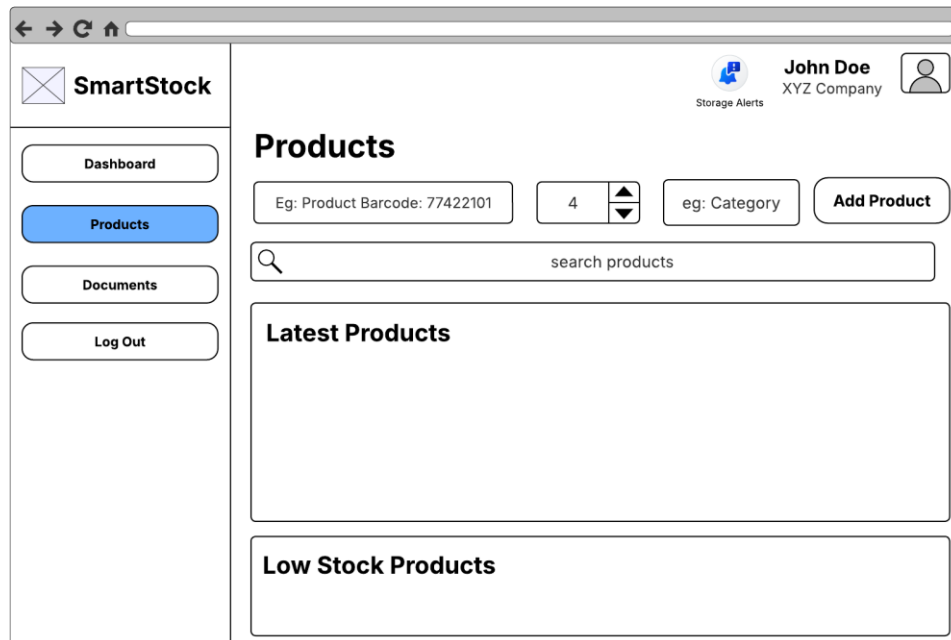
#### **Description:**

Description page is the main hub for users after login. It provides a visual overview of analytics, current stock data, and recently added items. Users can navigate to other main features from this page such as product and invoice management. Users are also able to receive notifications about low level stock on dashboard page.

**Author(s):** Rabindra Giri, Saleep Shrestha, Saqib Mahmood

#### iv) Prototype PT4

**Title:** Products Page



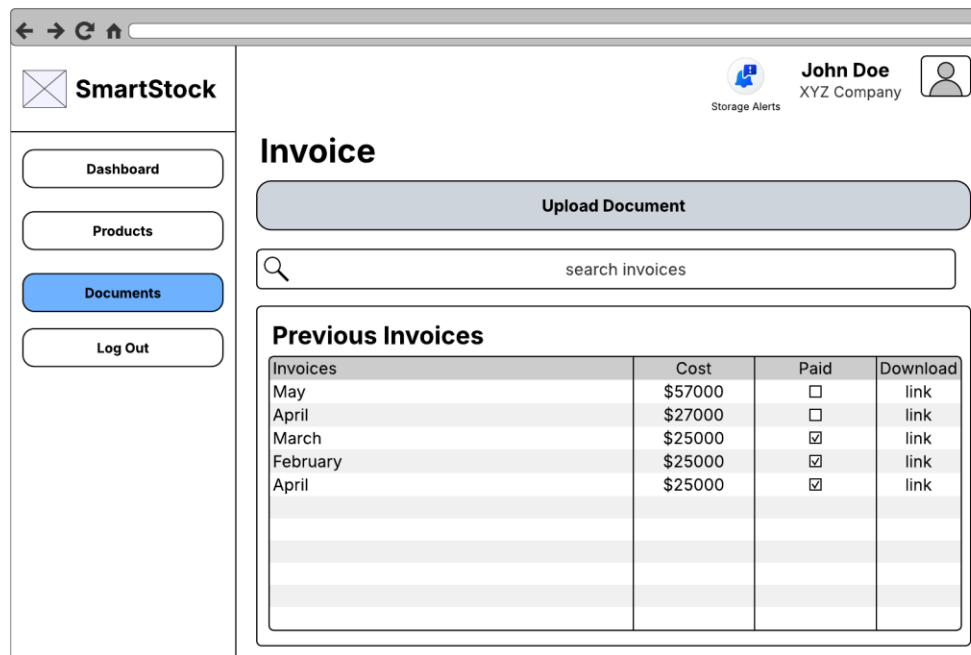
#### **Description:**

Product page allows users to search, filter, and manage product inventory. It also supports adding new products using barcode input, category, and quantity. The design features sections for "Latest Products" and "Low Stock Products." This page implements CRUD and barcode scanning features.

**Author(s):** Rabindra Giri, Saleep Shrestha

v) **Prototype PT5**

**Title:** Documents/Invoice Upload Page



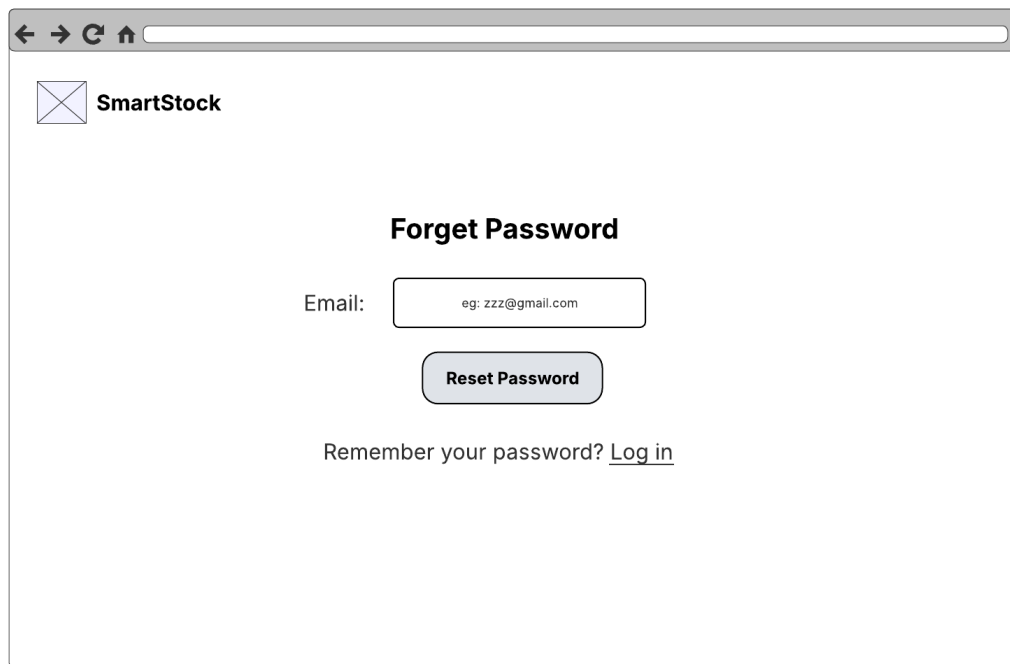
**Description:**

Users can upload, search, and view invoice documents. The page displays a searchable table with previous invoices including details such as cost, payment status, and download links. This page fulfills the invoice upload and document management functionality.

**Author(s):** Rabindra Giri, Saleep Shrestha, Saqib Mahmood

**vi) Prototype PT6**

**Title:** Forget Password Page



The image shows a web browser window with a grey header bar containing navigation icons (back, forward, refresh, home) and an address bar. The page content is white. In the top left corner, there is a logo consisting of a square with an 'X' inside, followed by the text 'SmartStock'. Centered on the page is the heading 'Forget Password' in bold. Below this heading is a form with the label 'Email:' followed by a text input field containing the placeholder text 'eg: zzz@gmail.com'. Below the input field is a rounded rectangular button with the text 'Reset Password'. At the bottom of the form area, the text 'Remember your password?' is followed by a link labeled 'Log in'.

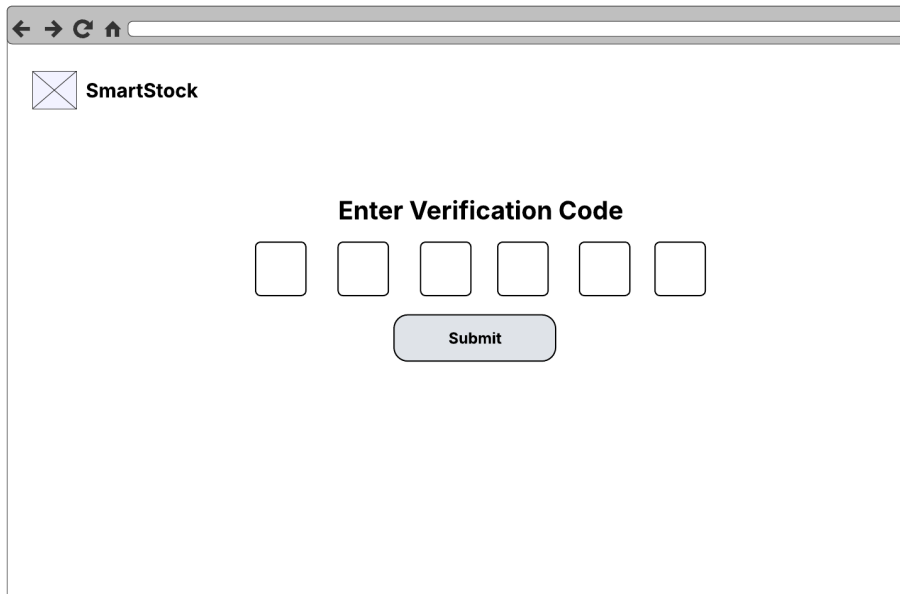
**Description:**

This page allows users to reset their password by entering their email. After clicking reset, the user receives a password recovery email. A link is provided to return to the login page.

**Author:** Rabindra Giri

vii) **Prototype PT7**

**Title:** Verification Code Page



SmartStock

**Enter Verification Code**

Submit

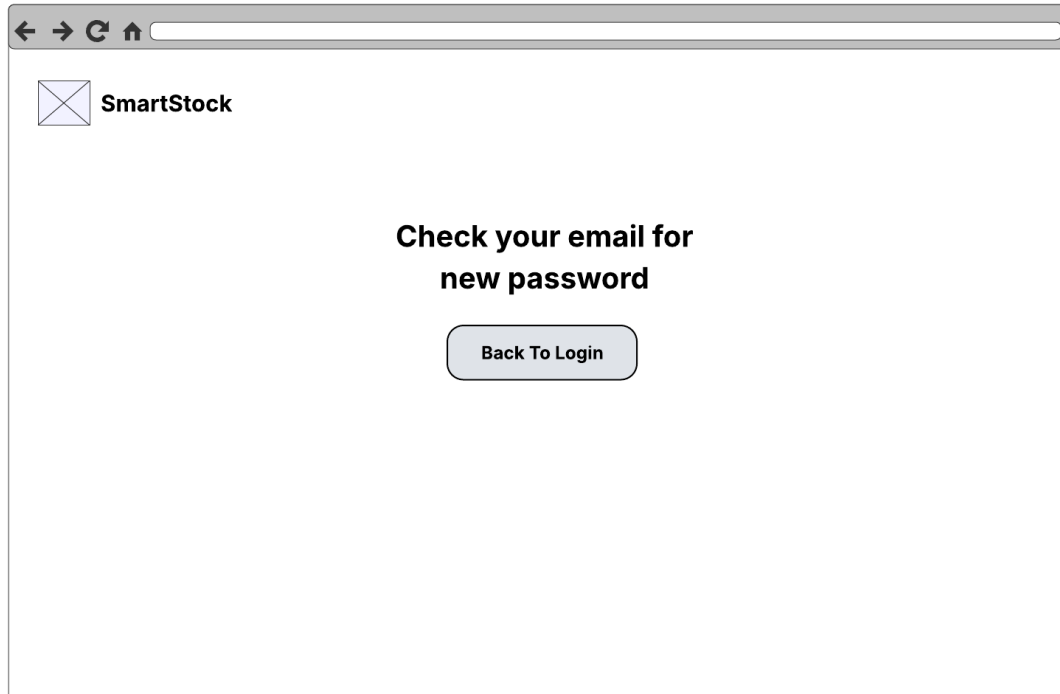
**Description:** After requesting a password reset, users enter a six-digit verification code to confirm their identity. This adds an extra layer of security to account recovery.

**Author:** Saleep Shrestha



### viii) Prototype PT8

**Title:** Password Recovery Confirmation Page

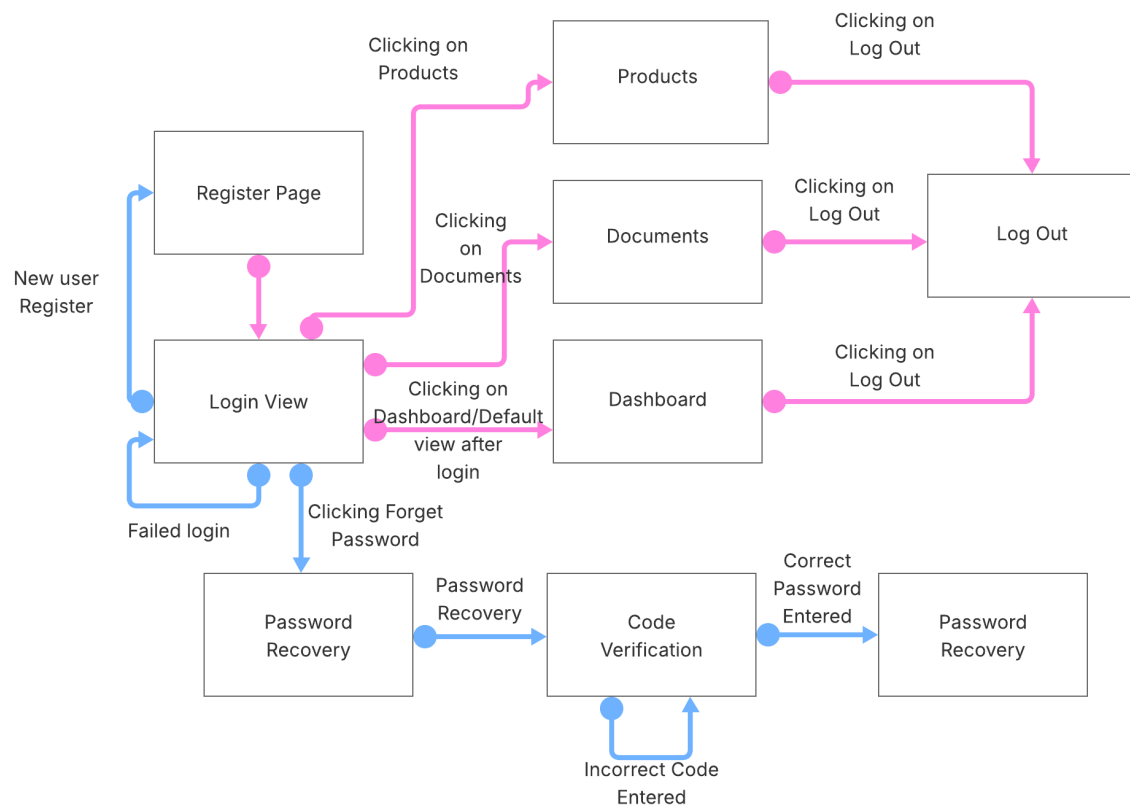


#### **Description:**

After entering the verification code successfully, this confirmation page tells the user to check their email for a new password and offers a button to return to the login screen.

**Author(s):** Rabindra Giri, Saqib Mahmood

## Wireframe



**Description:**

The wireframe diagram provides an overview of the navigation flow and user interaction within the Smart Stock application. It starts with the Register and Login pages, guiding users through authentication and account creation. If a user forgets their password, they are directed through a step-by-step password recovery process, including email entry, code verification, and password reset confirmation. Upon successful login, users are taken to the Dashboard, which serves as the central navigation hub for Smart Stock. From the Dashboard, users can access Products, Documents (Invoices), or Settings. Each section supports specific functionality such as adding/editing products, uploading and viewing invoices, or adjusting preferences. The flowchart also includes paths for logging out from any major screen. This visual layout ensures clarity in the application's structure by clearly illustrating both successful and failed login paths, recovery sequences, and in-app navigation.

**Author(s):** Saleep Shrestha, Rabindra Giri