**Date of Experiment: 12-03-25**

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**SVKM’S NMIMS**

**Mukesh Patel School of Technology Management & Engineering**

Department of Mechatronics Engineering

**RPA- Lab**

Subject- Robotic Process Automation

**EXPERIMENT NO. 7**

**Objective:**

Building a Professional Login Application in Power Apps with SharePoint List Authentication

**Prerequisites:**

1. Computers or laptops with access to Internet.
2. Power Apps account
3. SharePoint List With Given Fields

**Theory:**

**1. Overview of Power Apps**

Power Apps is a Microsoft platform that enables users to create custom applications without extensive coding. It's a powerful tool for app development with a user-friendly interface.

**2. Introduction to SharePoint as a Data Source**

SharePoint is a collaborative platform that integrates with Microsoft Office. In this experiment, we'll utilize SharePoint as a data source for our Power App.

**Procedure Overview**

**1. Setting Up SharePoint List**

**1.1 Creating a SharePoint List**

1. Open SharePoint and create a new list with necessary fields.
2. Populate the columns of the list with following data:

|  |  |
| --- | --- |
| 1. User\_Name | 1. Password |

**2. Creating a Form in Power Apps**

**2.1 Connecting Power Apps to SharePoint**

1. Open Power Apps and create a new canvas app.
2. Connect the app to the SharePoint list created in Step 2.
3. Explore available data connections.

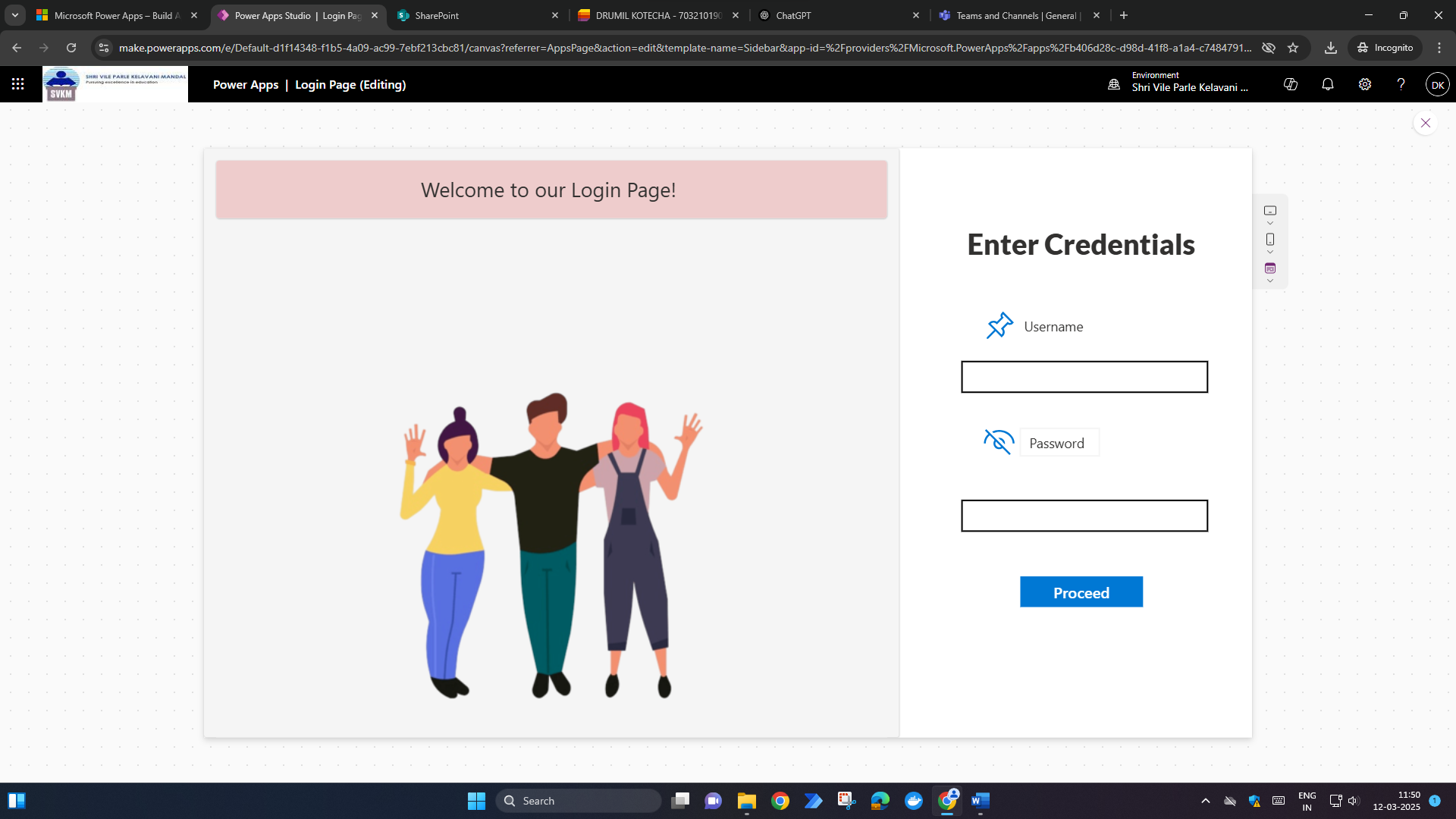
**2.2 Designing a Customized Screen**

1. Design a login screen, a welcome screen and an Error Screen layout suitable for data input.
2. Implement the buttons necessary for the application on each screen and apply the necessary logic.

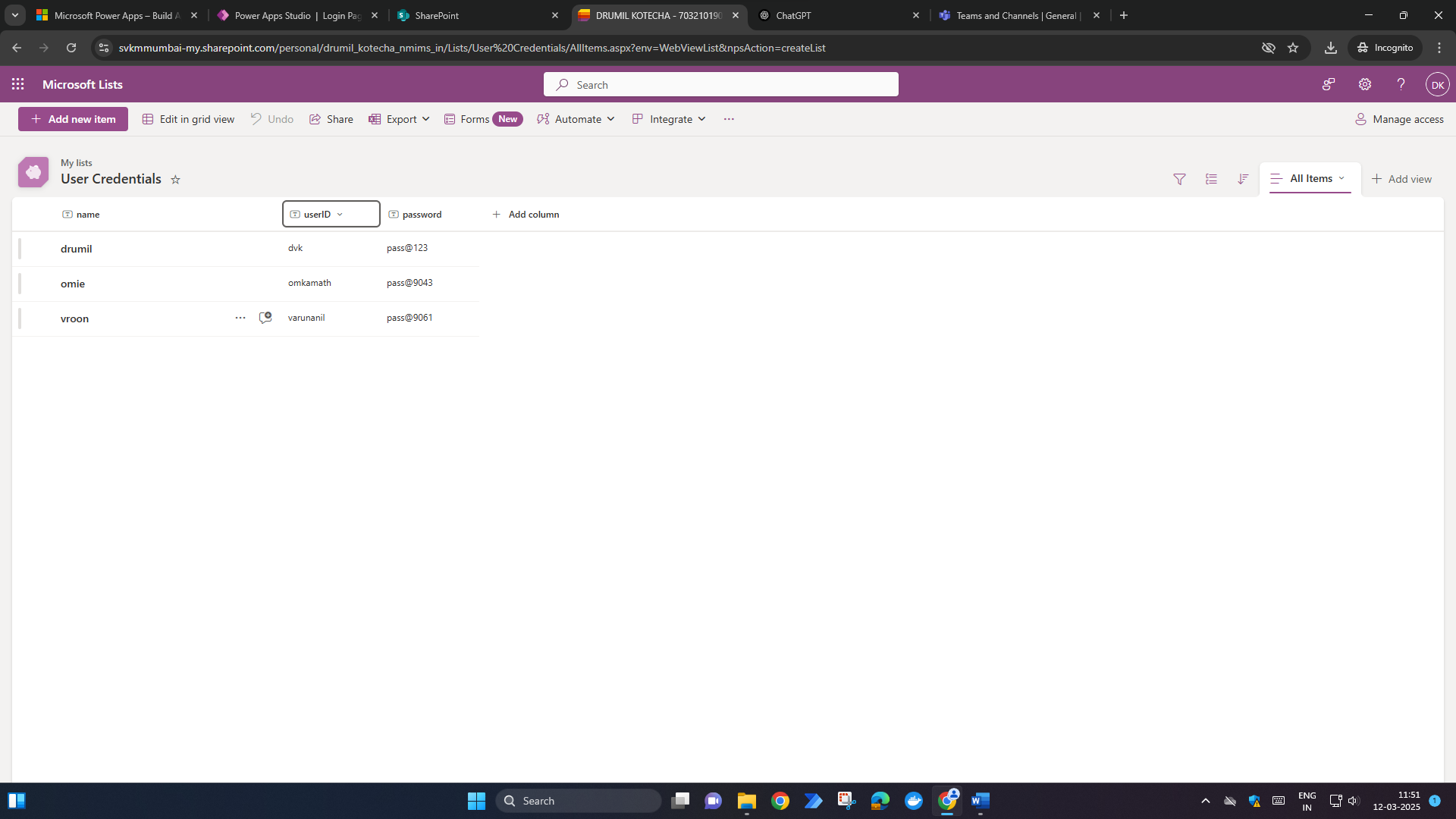
**2.2 Implementing the Logic**

1. Your login screen should check the login credentials defined at the SharePoint List.
2. If the user is authenticated, it should go to the welcome screen, else it should go to the error screen.

**Power Apps (Screenshot):**

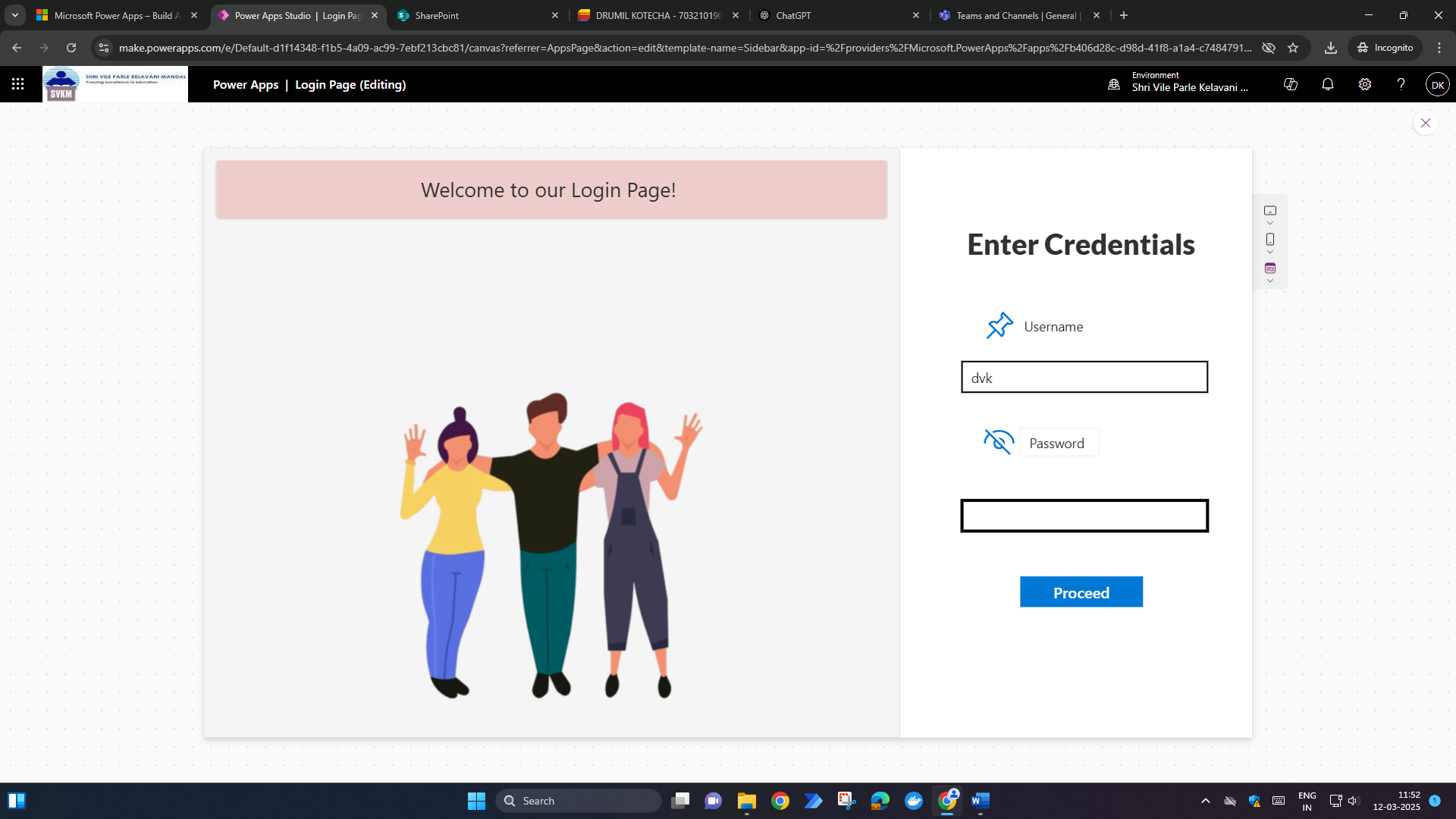
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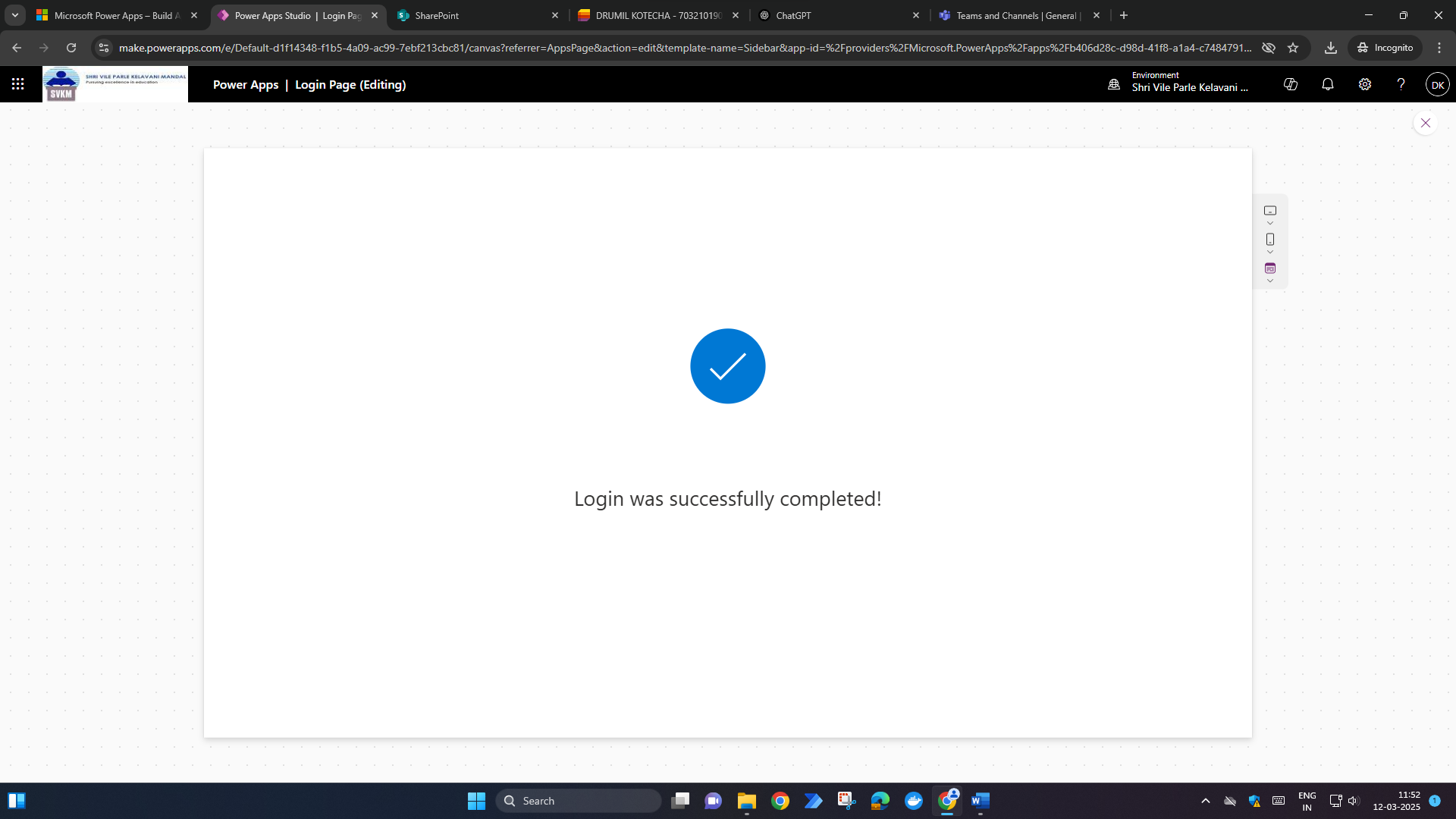
**SharePoint Data List (Screenshot):**

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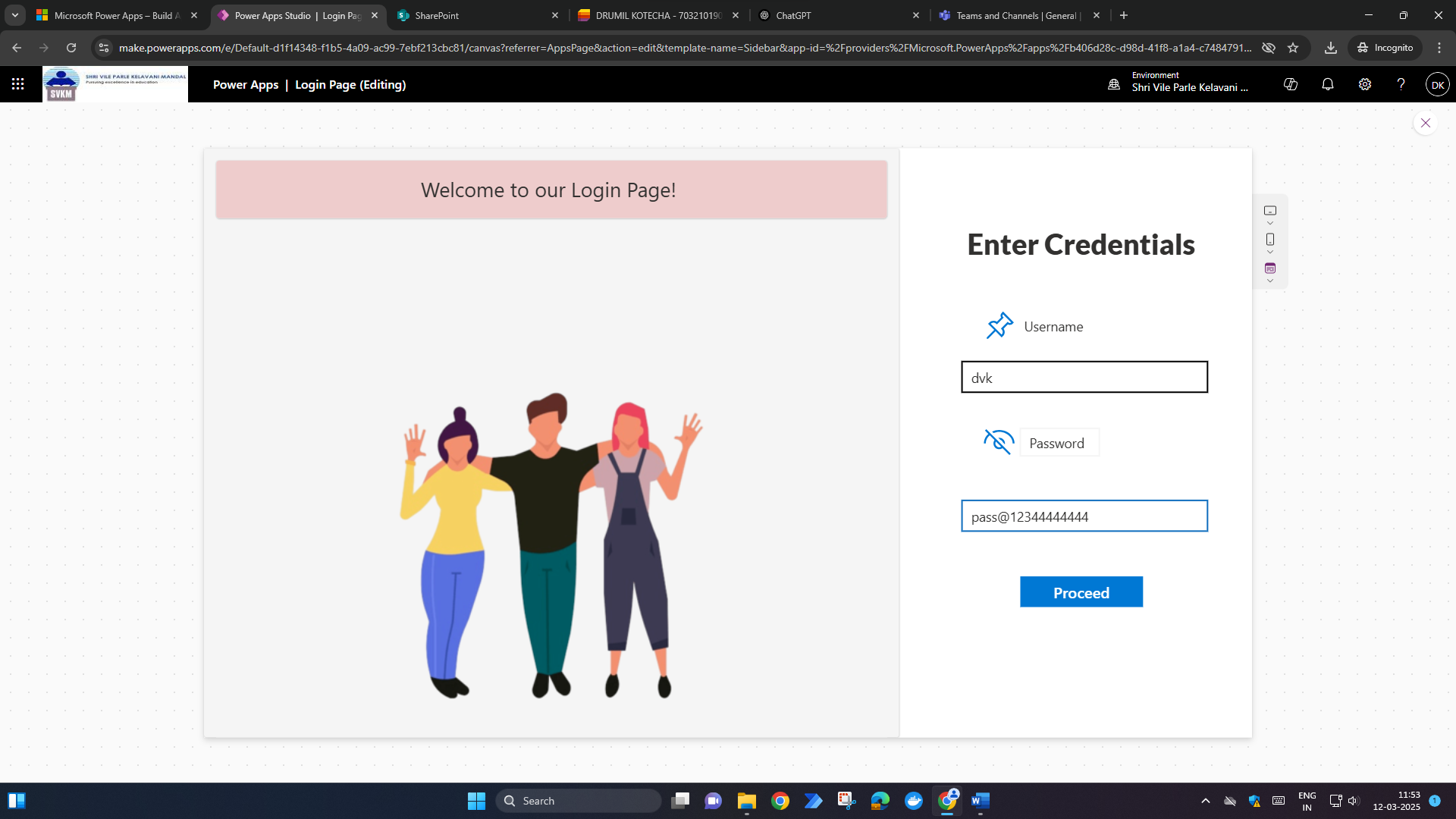
**User Authentication (Screenshot):**

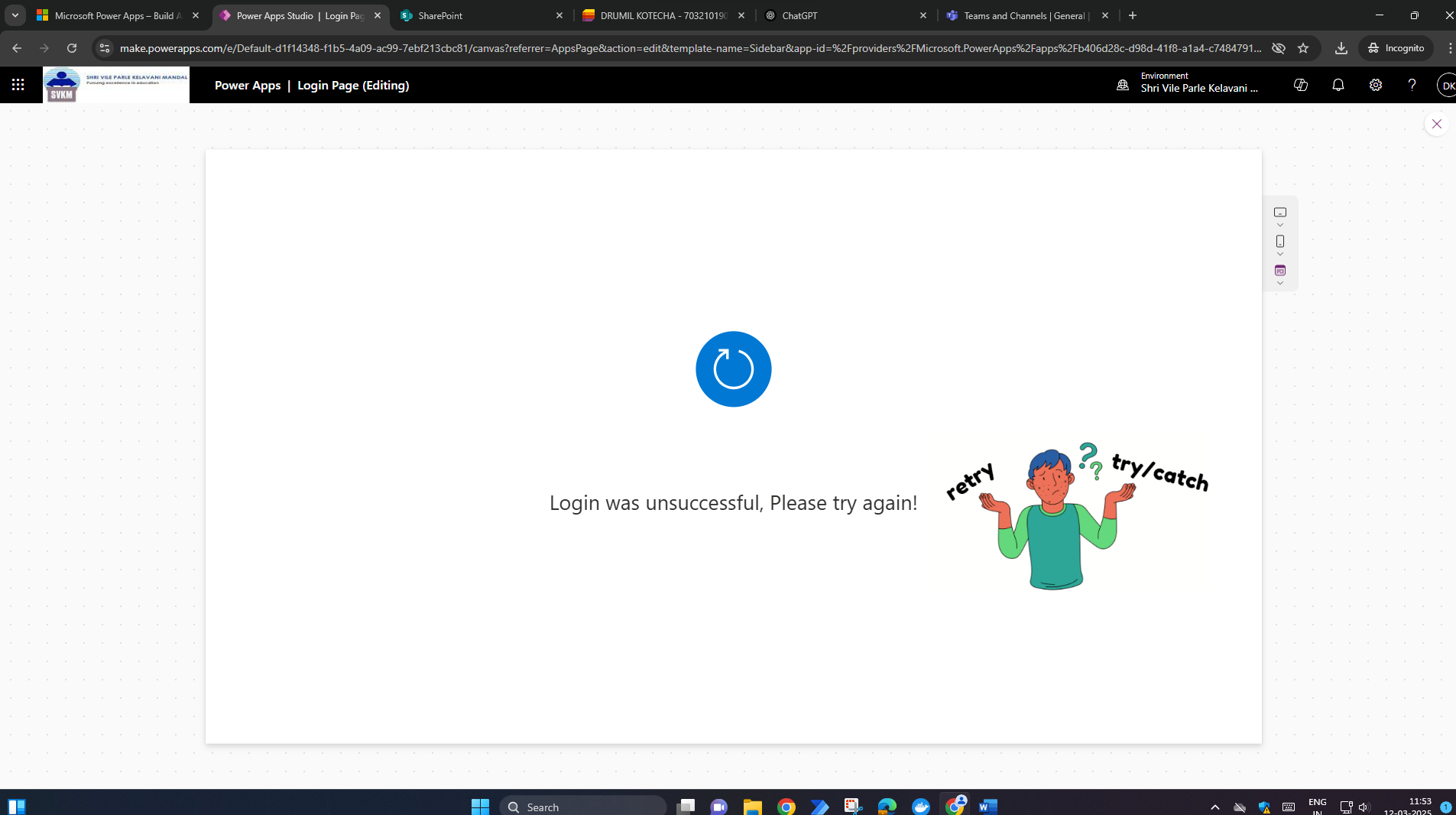
**Successful à**

****

****

**Unsuccessful à**

****

****

**User Authentication:**

If(

    IsBlank(

        LookUp('User Credentials', userID = *username*.Text && password = *password\_input*.Text)

    ),

    Navigate(*Screen3*), // Navigate to Screen3 if login fails

    Navigate(*Screen2*)  // Navigate to Screen2 if login is successful

)

**Conclusion:**

Successfully implemented authentication functionality into power apps using functions such as Lookup.

**Reference Material:**

1. <https://www.youtube.com/watch?v=BN74SsN4mm8>
2. <https://www.youtube.com/watch?v=QaFkl5168S4>