**App** **Script**

function onFormSubmit(e) {

  if (!e || !e.values) {

    Logger.log("No event object or no values.");

    return;

  }

  const formResponse = e.values;  // form submission row values

  // From your form response sheet columns (adjust if order changes)

  const timestamp = formResponse[0];         // Timestamp (col G)

  const productIdFromForm = formResponse[1]; // Product ID (col H)

  const productNameFromForm = formResponse[2]; // Select Product (col I)

  const quantityFromForm = Number(formResponse[3]); // Quantity (kg) (col J)

  const actionFromForm = formResponse[4].toLowerCase();  // Action (col K)

  if (isNaN(quantityFromForm)) {

    Logger.log("Quantity is not a number: " + formResponse[3]);

    return;

  }

  const sheet = SpreadsheetApp.getActiveSpreadsheet().getSheetByName("Inventory\_Data");

  const data = sheet.getDataRange().getValues();

  for (let i = 1; i < data.length; i++) {

    const productIdSheet = data[i][0];      // Column A (Product ID)

    const productNameSheet = data[i][1];    // Column B (Product Name)

    let stock = Number(data[i][2]);          // Column C (Stock (kg))

    if (productIdSheet === productIdFromForm && productNameSheet === productNameFromForm) {

      if (actionFromForm === "add stock") {

        stock += quantityFromForm;

      } else if (actionFromForm === "remove stock") {

        stock -= quantityFromForm;

        if (stock < 0) stock = 0; // prevent negative stock

      } else {

        Logger.log("Unknown action: " + actionFromForm);

        return;

      }

      sheet.getRange(i + 1, 3).setValue(stock);  // Update stock in inventory sheet

      Logger.log(`Stock updated for ${productNameSheet}: ${stock}`);

      return;

    }

  }

  Logger.log(`Product not found in inventory: ${productIdFromForm} / ${productNameFromForm}`);

}

// 2. Check inventory levels and send email alerts if stock is low

function checkInventoryLevels() {

  const sheet = SpreadsheetApp.getActiveSpreadsheet().getSheetByName("Inventory\_Data");

  const data = sheet.getDataRange().getValues();

  let emailBody = "";

  for (let i = 1; i < data.length; i++) {

    const productID = data[i][0];

    const productName = data[i][1];

    const stock = Number(data[i][2]);

    const reorder = Number(data[i][3]);

    if (stock < reorder) {

      emailBody += `⚠️ Product: ${productName} (ID: ${productID}) is LOW on stock.\nAvailable: ${stock} kg, Reorder Level: ${reorder} kg\n\n`;

    }

  }

  if (emailBody !== "") {

    MailApp.sendEmail({

      to: "aaaanjali62@gmail.com",  // 🔁 Replace with your email here

      subject: "📦 Inventory Alert - Low Stock",

      body: emailBody

    });

  }

}

// 3. Update Google Form dropdown "Select Product" question with latest product names from sheet

function updateFormDropdownFromSheet() {

  const FORM\_ID = '1zfIX0zYej\_9NBXU1wQmgm2YwZc0wWNoQg983g8GSRwQ';   // 🔁 Replace with your Form ID

  const SHEET\_ID = SpreadsheetApp.getActiveSpreadsheet().getId();

  const form = FormApp.openById(FORM\_ID);

  const sheet = SpreadsheetApp.openById(SHEET\_ID).getSheetByName('Inventory\_Data');

  // Get product names from column B starting row 2

  const data = sheet.getRange(2, 2, sheet.getLastRow() - 1).getValues();

  const productNames = data.flat().filter(name => name);

  // Find the dropdown question titled "Select Product"

  const items = form.getItems(FormApp.ItemType.LIST);

  const targetTitle = "Select Product";

  let updated = false;

  for (let i = 0; i < items.length; i++) {

    const item = items[i].asListItem();

    if (item.getTitle() === targetTitle) {

      item.setChoiceValues(productNames);

      Logger.log("✅ Dropdown updated successfully with product names.");

      updated = true;

      break;

    }

  }

  if (!updated) {

    Logger.log("⚠️ 'Select Product' dropdown not found. Please check the title and question type.");

  }

}

function sendDailyStockRemovalSummary() {

  const SHEET\_ID = SpreadsheetApp.getActiveSpreadsheet().getId();

  const sheet = SpreadsheetApp.openById(SHEET\_ID).getSheetByName("Form Responses 1"); // your form responses sheet name

  const data = sheet.getDataRange().getValues();

  // Assume headers: Timestamp, Product ID, Select Product, Quantity (kg), Action

  const headers = data[0];

  const timestampIdx = headers.indexOf("Timestamp");

  const productIdx = headers.indexOf("Select Product");

  const quantityIdx = headers.indexOf("Quantity (kg)");

  const actionIdx = headers.indexOf("Action");

  const today = new Date();

  today.setHours(0, 0, 0, 0);

  // Store removals per product

  const removals = {};

  for (let i = 1; i < data.length; i++) {

    const row = data[i];

    const timestamp = new Date(row[timestampIdx]);

    timestamp.setHours(0, 0, 0, 0);

    if (timestamp.getTime() === today.getTime()) {

      if (row[actionIdx] === "Remove Stock") {

        const product = row[productIdx];

        const qty = Number(row[quantityIdx]) || 0;

        removals[product] = (removals[product] || 0) + qty;

      }

    }

  }

  if (Object.keys(removals).length === 0) {

    Logger.log("No stock removed today.");

    return;

  }

  let emailBody = "Daily Stock Removal Summary:\n\n";

  for (const [product, qty] of Object.entries(removals)) {

    emailBody += `- ${product}: ${qty} kg removed\n`;

  }

  MailApp.sendEmail({

    to: "aaaanjali62@gmail.com",  // Your email here

    subject: "📊 Daily Stock Removal Report",

    body: emailBody

  });

  Logger.log("Daily stock removal email sent.");

}