

Odoo Development Assignment

Overview

You have been tasked with creating a custom Odoo module for a fictional company, "Tech Gear Inc." This company sells a variety of electronic devices and accessories. The module should streamline their inventory management by integrating existing Odoo modules and incorporating functionality to parse product data from an Excel file.

Requirements:

1. **Module Creation:**
 - Create an Odoo module named `tech_gear_inventory`.
 - Structure the module following Odoo's standard conventions.
2. **Excel File Parsing:**
 - Implement functionality to parse an Excel file containing product data and update the Odoo database accordingly.
 - Ensure the module can handle a standard Excel file with the following columns:
 - `Product Name`
 - `Category`
 - `Price`
 - `Quantity`
 - Map these columns to existing fields in the `product.template` model.
3. **Inventory Module Extension:**
 - **Product Model:**
 - Extend the existing `product.template` model to include:
 - `category` (Many2one): A relation to a `product_category` model.
 - Implement a mechanism to synchronize data from the parsed Excel file to the Odoo database.
 - **Product Category:**
 - Create a new `product_category` model with the following fields:
 - `name` (Char): The name of the category.
 - `description` (Text): A brief description of the category.
4. **Views:**
 - Extend or create views to manage the models:
 - **Product Category Views:**
 - Create form, tree, and search views for managing the `product_category` model.
5. **Menus:**
 - Ensure the existing menus are extended or updated to navigate to each model's views appropriately, and run the importer.

6. Functional Requirements

- **Excel File Parsing:** Ensure that the module correctly parses an Excel file and updates the database accordingly.

7. Testing:

- Write a test to verify the functionality of the module:
 - **Excel Parsing:** Ensure data from a sample Excel file is parsed correctly and populates the database.

Submission:

1. Package the module into a zip file named `tech_gear_inventory.zip`.
2. Include a README file detailing the module's functionality, installation steps, and how to use it.
3. Provide a sample Excel file named `products_data.xlsx` to demonstrate the parsing functionality

Evaluation Criteria:

- **Functionality:** The module meets all the specified functional requirements.
- **Code Quality:** The code is clean, follows best practices, and is well-documented.
- **UI/UX:** The views are user-friendly and intuitive.
- **Testing:** Tests cover the primary functionalities and pass successfully.

