JALA TECH

Odoo Developer Test Submission

Odoo V16

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DOCUMENT INFORMATION	
Project Name	Custom Module Project Management and Synchronization between Odoo and Trello.
Purpose	Odoo developer test.
Author	Shafilah A.F.
Github Link	https://github.com/shafilahaf/odoo_test_JALA

DOCUMENT HISTORY			
Version	**Date**	**Summary of Change**	**Author**
1.0	03/04/2024	Release Version	Shafilah A.F.

OBJECTIVE

The objective of this User Acceptance Testing (UAT) is to validate the functionality, reliability, and efficiency of the custom module for Project Management and Synchronization between Odoo and Trello.

1. ACCEPTANCE TESTING SCOPE

Task 1 Tests – Custom Module						
Test Case ID	**Module**	**Test Scenario**	**Steps to Execute**	**Expected Result**	**Actual Result**	**Scope**
TC001	Project Management	Create Record	1. Open Project Management 2. Click NEW Button 3. Fill Nama Proyek field, Deskripsi field, etc. 4. After that, click 'Save Manually' button (cloud icon)	Project record is successfully created and displayed in the project list.		Odoo
TC002	Project Management	Edit Record	1. Open Project Management 2. Open the form of an existing record 3. Modify the Nama Proyek field, Deskripsi field, etc. 5. Click 'Save Manually' to save the changes	Project details are successfully updated and displayed in the project list.		Odoo
TC003	Project Management	Change Status	1. Select an existing record 2. Click on the Status field (*statusbar*) 3. Select **Selesai** or **Ditangguhkan** Note : Ensure that the **Outgoing Mail Server** is correctly configured in Odoo to allow email notifications to be sent when the project status changes.	Project status is updated, and an email notification is sent to the project owner.		Odoo
TC004	Project Management	Delete Record	1. Select an existing project 2. Click the Delete button in Action 3. Confirm deletion	Project record is successfully removed from the project list.		Odoo

Task 2 Tests - Integration with External Systems.						
Test Case ID	**Module**	**Test Scenario**	**Steps to Execute**	**Expected Result**	**Actual Result**	**Scope**
TC001	Project Management	Setup Trello	1. Open Project Management menu 2. Select Trello menu and go to **Setup** sub menu 3.In the Trello Setup, enter the following: - Name: Test Trello Setup - Get Trello API Key, API Secret, and Token from https://trello.com/power-ups/admin/ or using **Shafilah's credential (it is dummy)** Trello Login (Using Gmail) : Email : shafilahdummy@gmail.com Password : shafilah123 Trello API Key : 1f5fbaac03dafbd575719926b0ec3443 Trello API Secret: bd6308854a97ba9cf239e97ff7890ff239ac51dcdf47a0e22a6c565aa6fc03ad Trello Token:	Trello setup is saved correctly		Odoo

			ATTA34dd31521865b51baf33de6bf1fb4710d72418ec1b1e249cf925d1eab9c1489200063D3A 4. Click **TEST CONNECTION** button to ensure the connection is successful or failed			
TC002	Project Management	Synchronize Trello	For synchronize Trello Project to Odoo 1. Enable synchronization of Trello members, boards, lists, and cards with Odoo 2. Click **Sync** button 3. After enabling all synchronizations, check the **Project** menu. Note: Trello members ➔ Create new member in Contact and automatically create user (default password : 1234) Trello Boards ➔ Check in Configuration and select Projects. This will create corresponding boards in Odoo Trello Lists ➔ Check in Configuration and select Task Stages. This will sync the stage in Trello to Odoo Trello Card ➔ Navigate to the **Projects** menu and open the board that was created from Trello. This will create task from Trello	Synchronization options are configured. The system is integrated with Trello and ready to use		Odoo
TC003	Projects	Edit Name (Sync to Trello)	1. Open the **Projects** menu in Odoo 2. Select an existing task that was synced from Trello. 3. Modify the **Name/Title** field 5. Click Save. 2. Check if the name is updated in Trello as well. Note: Right now, only update Name/Title of the project is updated and synced with Trello. Other fields are not synced at this moment	The **Name/Title** of the project in Odoo is successfully updated. After saving, the new **Name/Title** is synchronized and reflected in the corresponding Trello board.		Odoo
TC004	Project Management	Setup Trello Webhook	1. Open **Project Management** menu and select navigate to **Trello**. 2. Click **Trello Webhook** submenu 3. Create new record 4. Select Project and fill Call-Back URL. Current using https://webhook.site/. **Copy unique url from Webhook Site** and **paste in Call-Back URL field**. (This is necessary because the URL needs to be in **https** format) Or using Shafilah's unique URL (copy and paste in Call-Back URL): https://webhook.site/5927534c-cb3f-4c18-abe0-3b93c2122bdc 5. Click Create Webhook. If **Webhook ID, Webhook Description and Active** are populated, the webhook creation is successful			Odoo
TC004	-	Move Trello Card into Another Stage	1. Open Trello Workspace in website 2. Drag and drop card into other stage (example: Card from Active to Done) Note: Currently, only the **status** of the Trello card is updated when moved to another stage. Other card details are not affected.			Trello Web
TC005	-	Fetch JSON From Webhook Site	Back to Trello Webhook 1. Click **Fetch** button to create Logs from Webhook Site to Odoo. 2. Go to the Trello menu and select the Logs submenu. 3. After fetching the logs, verify that the '**Actions Key**' action (e.g., *action_move_card_from_list_to_list*) updates the stage in the Project Task module in Odoo. 4. Go to **Project** menu and select an existing project that was synced from Trello. Ensure that the tasks stage in both Odoo and Trello is the same after the update.	The webhook is successfully created, with the Webhook ID, Webhook Description, and Active fields populated. Logs are successfully fetched from the Webhook Site and created in Odoo. The logs can be viewed under the Trello menu in the Logs submenu.		Odoo

2. Performance Analysis and Optimization Plan

Objective

Conduct a performance analysis of a complex Odoo module and identify area for optimization. Create plan to improve its performance.

Test Code and Profiling

```python
# Code Profilling
from odoo import models, fields, api, _
from odoo.exceptions import UserError, ValidationError
import logging

_logger = logging.getLogger(__name__)
class StockPickingInherit(models.Model):
    _inherit = 'stock.picking'

    @api.model
    def create(self, vals):
        res = super(StockPickingInherit, self).create(vals)

        self._query_test1()
        self._query_test2()

        return res

    def _query_test1(self):
        self.env.cr.execute("select pg_sleep(1*10)")

    def _query_test2(self):
        self.env.cr.execute("select pg_sleep(1*20)")
```

Performance Analysis:

The above code executes two database queries using pg_sleep() to simulate delays:

- _query_test1 introduces a 10-second delay.
- _query_test2 introduces a 20-second delay.

When these queries are executed sequentially, the total delay is 30 seconds. However, the reported total duration is 39.23 seconds, indicating that additional processing time is spent on other tasks, such as handling data or managing the backend logic.

Optimization Plan

1. From above code, remove pg_sleep() queries. These queries are used for testing purposes, and should be removed in production environments to avoid unnecessary delays
2. Using job queues to handle long-running processes in the background
3. Implementing asynchronous functions using decorators like *@job* in odoo.