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Magento Backend Developer Test

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Backend Test Scenario

The Vaimo Magento Backend Developer test is based on a factious customer request, however it is presented much in the way a real-life request would be. The test should be undertaken with the following guidelines:

1. Familiarise yourself with the Magento installation process: https://devdocs.magento.com/guides/v2.3/install-gde/install-flow-diagram.html
2. Use a local instance of Magento Open Source (version 2.3.x) from https://devdocs.magento.com/guides/v2.3/install-gde/bk-install-guide.html)
3. Install sample data to facilitate with placing orders: https://devdocs.magento.com/guides/v2.3/install-gde/install/sample-data-after-magento.html
4. Configure the Base currency to display in Rands: https://docs.magento.com/user-guide/stores/currency-configuration.html
5. Create a custom module that handles all aspects of the task.
   a. You can use any sample module as a base (ex. https://github.com/mageplaza/magento-2-sample-module),
   b. You are responsible for ensuring that the implementation is architecturally correct.
6. You are free to interpret the solution as you see fit, but all aspects of the task should be done according to:
   a. Magento best practices
   b. PHP code quality should match to Magento coding standards.
7. We are looking, not just for code quality and best use of Magento standards & methods, but also your approach to the solution.
8. Documentation on how the solution works (as you would describe to a user) should also be supplied
9. Indicate how much time you did spend on the task. Guideline is to complete the test within one week.
10. Send completed code and documentation as a TAR/ZIP archive

User Story

The client would like to ensure that all customers placing orders over R500.00 get a superior level of customer service.
To facilitate this the client would like all orders placed online that are over the R500.00 threshold, to be allocated to an account manager.

The allocation needs to be done at the point where the order is created and should apply even if the payment event fails: https://webkul.com/blog/plugins-observers-and-preference-in-magento2/
The allocation is to be done by province. A list of provinces & account manager names are supplied below for testing.

In the Admin backend the client also requires :

1. Ability to change the threshold at which orders get allocated to an account manager: https://www.mageplaza.com/magento-2-module-development/create-system-xml-configuration-magento-2.html
2. The Standard Sales grid should be extended so that there is a new column that shows the account manager linked to the order (a blank value for orders under the threshold).
3. The client has no need at this time edit or import provinces/account manager records him/herself, but the initial CSV list should be imported as part of the module initialisation process.
4. **BONUS POINTS:** A menu point to access a grid that will show the province and the account manager for that province. At this time there is no need to be able to edit or add provinces or account managers from admin.

Account Manager Mapping

Province	Account Manager
Eastern Cape	Mario De Bruin
Free State	Leigh Van Der Berg
Gauteng	Gregory Mahlangu
KwaZulu-Natal	Mpho Ntuli
Limpopo	Ben Abrahams
Mpumalanga	Bianca Zondo
Northern Cape	Moses Khoza
North-West	Terence Enslin
Western Cape	Ismail Moodley