

**1. my\_custom\_module/\_\_init\_\_.py**

This file initializes the module and imports the necessary Python files.



**2. my\_custom\_module/\_\_manifest\_\_.py**

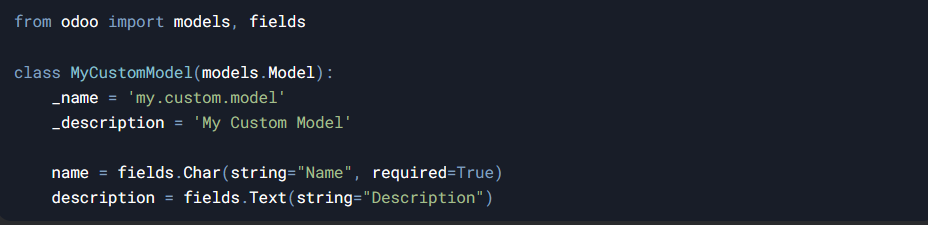
This file defines the metadata for the module, including its name, version, dependencies, and data files.



**3. my\_custom\_module/models/\_\_init\_\_.py**

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**my\_custom\_module/models/my\_custom\_model.py**

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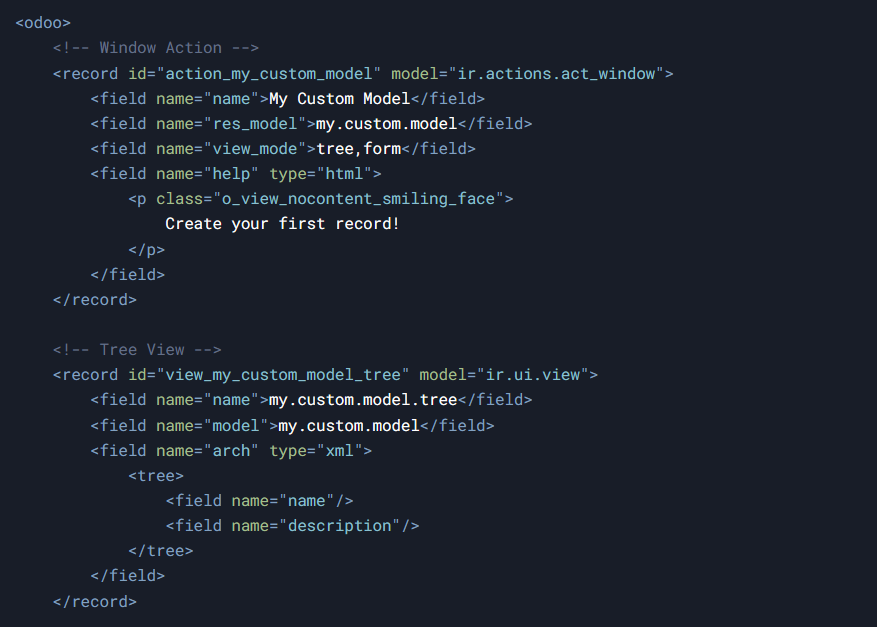
**4. my\_custom\_module/security /ir.model.access.csv**



* **id**: Unique identifier.
* **name**: Name of the access rule.
* **model\_id:id**: The model (my\_module.student).
* **group\_id:id**: The group (base.group\_user for normal users, base.group\_system for managers).
* **Permissions**:
* **perm\_read**: View records (1 = Yes, 0 = No).
* **perm\_write**: Edit records.
* **perm\_create**: Add records.
* **perm\_unlink**: Delete records.

**5. my\_custom\_module/views/my\_custom\_model\_views.xml**

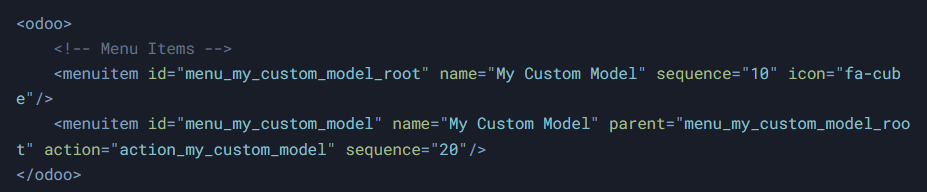
This file defines the window action and views (tree and form).





**6. my\_custom\_module/views/my\_custom\_model\_views.xml**

This file defines the **menu items**.



* **menu\_my\_custom\_model\_root:** The parent menu item.
* **menu\_my\_custom\_model:** The child menu item that triggers the window action.
* **action:** The ID of the window action to execute.

**Explanation of the Module Structure**

**1. Root Directory**

* **\_\_init\_\_.py**: Initializes the module and imports the models directory.
* **\_\_manifest\_\_.py**: Contains metadata about the module, including dependencies and data files to be loaded.

**2. models/ Directory**

* **\_\_init\_\_.py**: Imports the model file to ensure it is loaded when the module runs.
* **my\_custom\_model.py**: Defines the my.custom.model model with fields and business logic.

**3. views/ Directory**

* **my\_custom\_model\_views.xml**: Defines the tree and form views for the custom model, along with the window action.
* **my\_custom\_model\_menus.xml**: Defines menu items and navigation for the custom model in the Odoo UI.

**4. security/ Directory *(NEW: Security Configuration)***

* **ir.model.access.csv**:
  + Defines access control rules for the custom model.
  + Specifies which users or groups can read, write, create, and delete records.
  + Uses a CSV format to declare access rights.