

Code Style

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📖 Code Style

Readable Java code in Nuclos – comparison of bad and good style.

REFERENZ

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APPLIES TO NUCLOS 4.2026.X

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An example of how Java code should **not** look – deep nesting, unclear conditions and poor readability:

```
private Collection<CollectableEntityObject<PK>> readDependants(CollectableMasterData<PK> clct) {
    if (clct == null) {
        return Collections.<CollectableEntityObject<PK>>emptyList();
    }

    Collection<CollectableEntityObject<PK>> lstclctmd = new ArrayList<CollectableEntityObject<PK>>();
    for(CollectableEntityObject<?> clcteo : clct.getDependantCollectableMasterDataMap().getValues(
        getEntityAndForeignKeyField().getDependentKey()))
        lstclctmd.add((CollectableEntityObject<PK>)clcteo);
    if (isHistoricalView() // must be an historical view of parent controller.
        ) { //!! clct.getMasterDataCVO().getEntityObject().getDependants().getData(this.
        getEntityAndForeignKeyFieldName().getEntityName()).isEmpty() }
        lstclctmd = CollectionUtils.transform(clct.getMasterDataCVO().getEntityObject().getDependants().getData(
            getEntityAndForeignKeyField().getDependentKey()),
            new CollectableEntityObject.MakeCollectable(CollectableEOEntityClientProvider.getInstance().
            getCollectableEntity(
                getEntityAndForeignKeyField().getEntity())));
    } else {
        if (lstclctmd.isEmpty() && clct.getId() != null) {
            final Collection<EntityObjectVO<PK>> collmdvo = (Collection<EntityObjectVO<PK>>) ((clct == null)
                ? new ArrayList<EntityObjectVO<PK>>()
                : MasterDataDelegate.getInstance().getDependentDataCollection(getCollectableEntity().getUID(),
                getForeignKeyFieldUID(), getSubForm().getMapParams(), clct.getPrimaryKey()));

            lstclctmd = CollectionUtils.transform(collmdvo, new CollectableEntityObject.MakeCollectable(this.
            getCollectableEntity()));
            clct.getDependantCollectableMasterDataMap().addValues(getEntityAndForeignKeyField().getDependentKey(),
            lstclctmd);
        }
    }
    return lstclctmd;
}
```

The same logic more clearly structured:

```

private Collection<CollectableEntityObject<PK>> readDependants(CollectableMasterData<PK> clct) {
    if (clct == null) {
        return Collections.emptyList();
    }

    if (isHistoricalView()) { // must be an historical view of parent controller.
        return readDependantsForHistoricalView(clct);
    }

    IDependentKey dependentKey = getEntityAndForeignKeyField().getDependentKey();

    Collection<CollectableEntityObject<PK>> loadedDependents = RigidUtils.uncheckedCast(clct.
getDependantCollectableMasterDataMap().getValues(dependentKey));
    if (!loadedDependents.isEmpty() || clct.getPrimaryKey() == null) {
        return new ArrayList<>(loadedDependents);
    }

    final Collection<EntityObjectVO<PK>> collmdvo = MasterDataDelegate.getInstance()
        .getDependentDataCollection(getCollectableEntity().getUID(), getForeignKeyFieldUID(), getSubForm().
getMapParams(), clct.getPrimaryKey());

    Collection<CollectableEntityObject<PK>> lstclctmd = CollectionUtils.transform(collmdvo, new
CollectableEntityObject.MakeCollectable(getCollectableEntity()));
    clct.getDependantCollectableMasterDataMap().addValues(dependentKey, lstclctmd);

    return lstclctmd;
}

```



Detailed example

A detailed before/after can be found under [bad programming](#) and [how to do it right](#).

Related pages



Conventions for Nuclos API development

Conventions.

[Open](#)