Technical Specifications
Final Fantasy XII
Completion Sheet Script

26/08/2024 - v1.1 Raoul de Grunt

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1. History

Version	Date	Subject
1.0	14/08/2024	Initial version of the document
1.1	26/08/2024	Adjustments for improvement of "Sell Up To" cell value and small fixes

2. Information

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2.2 UpdateLootSheet Flow

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        - ■ LootSheetHandler::getOutputFor()
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            - ● SellUpToValueConverter::convertToSellUpToString()
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3. Class description

3.1 Introduction

This chapter writes out all classes present in the FF12 Completion Script, including its intended goal, class it extends, classes using it, properties, functions and classes it uses. For the classes it uses, every class that is created via a factory class is noted with an *.

3.2 Base classes

3.2.1 DatabaseReaderBase

Goal

Base class for the database reader classes

Used by

BazaarSheetDatabaseReader
LootSheetDatabaseReader

Functions

protected function runGetBazaarLoot(array $select, string $bazaarName): array

Uses

Framework\Databases\MySqlWrapper *
Framework\Databases\Join *
Framework\Databases\MySqlSelectQuery *

3.2.2 FactoryBase

Goal

Base class for the factory classes

Used by

BazaarSheetFactory
LootSheetFactory

Functions

protected function createBazaarLoot(string $lootName, int $amount, int $lootSheetRow, int $bazaarSheetRow): BazaarLoot

Uses

BazaarLoot

3.2.3 HandlerBase

Goal

Base class for the handler classes

Used by

BazaarHandler
LootHandler

Functions

protected function getOutput(array $list): array
abstract protected function getOutputFor(string $elementName): OutputBase

3.2.4 OutputBase

Goal

Base class for the output data classes

Used by

BazaarOutput
LootOutput

Functions

abstract public function getUpdateRow(): array

3.2.5 SheetReaderBase

Goal

Base class for all sheet reader classes

Used by

BazaarSheetSheetReader
LootSheetSheetReader

Functions

protected function getSingleColumnRangeValues(string $range): array

Uses

Framework\Google\SheetsWrapper *
SheetResultConverter

3.2.6 SheetWriterBase

Goal

Base class for all sheet writer classes

Used by

BazaarSheetSheetWriter
LootSheetSheetWriter

Functions

protected function writeInformation(string $sheetRange, array $output)

Uses

Framework\Google\SheetsFactory *

3.2 Converters

3.2.1 DatabaseResultConverter

Goal

Convert database results to a format that is handled more clearly

Used by

DatabaseReader

Functions

public static function convertSingleColumnValue(array $databaseResult, string $columnName): array
public static function convertBazaarLootResult(array $databaseResult): array
private static function getBazaarSheetRowValue(array $record): string

Uses

BazaarLoot *

3.2.2 LootNeededValueConverter

Goal

Convert information for the bazaar items to values for the sheet

Used by

BazaarOutput

Functions

public static function convertToLootString(array $bazaarLoot): string
private static function convertToLootStringSingle(array $bazaarLoot): string
private static function convertToLootStringDouble(array $bazaarLoot): string
private static function convertToLootStringTriple(array $bazaarLoot): string

3.2.3 NeededToTurnInValueConverter

Goal

Convert information for a loot item to values for the "Needed to turn in" cells

Used by

LootOutput

Functions

public static function convertToNeededToTurnInString(array $bazaarLoot): string
private static function convertToNeededToTurnInStringSingle(array $bazaarLoot): string
private static function convertToNeededToTurnInStringDouble(array $bazaarLoot): string
private static function convertToNeededToTurnInStringTriple(array $bazaarLoot): string

3.2.4 SellUpToValueConverter

Goal

Convert information for a loot item to values for the "Sell Up To" cells

Used by

LootOutput

Functions

public static function convertToSellUpToString(int $lootRow, int $sellUpTo): string
public static function convertToSellUpToString(array $bazaarLoot): string
private static function convertToSellUpToStringSingle(array $bazaarLoot): string
private static function convertToSellUpToStringDouble(array $bazaarLoot): string
private static function convertToSellUpToStringTriple(array $bazaarLoot): string
private static function convertToSellUpToStringQuadruple(array $bazaarLoot): string
private static function convertToSellUpToStringQuintuple(array $bazaarLoot): string

3.2.5 SheetResultConverter

Goal

Convert sheet results to a format that is handled more clearly

Used by

CompletionSheetReader

Functions

public static function convertSingleColumnValue(array $sheetResult): array

3.3 Coordinators

3.3.1 BazaarSheetCoordinator

Goal

Call class functions that perform parts of the updateBazaarSheet script

Used by

updateBazaarSheet

Functions

public function updateBazaarSheet()

Uses

BazaarSheetSheetReader *
BazaarSheetHandler *
BazaarSheetSheetWriter *

3.3.2 LootSheetCoordinator

Goal

Call class functions that perform parts of the updateLootSheet script

Used by

updateLootSheet

Functions

public function updateLootSheet()

Uses

LootSheetSheetReader *
LootSheetHandler *
LootSheetSheetWriter*

3.4 Data

3.4.1 BazaarLoot

Goal

Hold values for a piece of loot needed to unlock a Bazaar item

Used by

BazaarOutput
LootOutput

Properties

string $lootName
int $amount
int $lootSheetRow
int $bazaarSheetRow

Functions

public __construct(string $lootName, int $amount, int $lootSheetRow, int $bazaarSheetRow)
public function lootName(): string
public function amount(): int
public function lootSheetRow(): int
public function bazaarSheetRow(): int

3.4.2 BazaarOutput

Goal

Hold values for a piece of loot needed to unlock a Bazaar item

Used by

BazaarSheetSheetWriter

Extends

OutputBase

Properties

array $bazaarLoot

Functions

public function getUpdateRow(): array

Uses

LootNeededValueConverter

3.4.3 LootOutput

Goal

Hold values for a piece of loot and other loot items used to unlock the same bazaar items

Used by

CompletionSheetWriter

Extends

OutputBase

Properties

string $lootName
array $bazaarLoot

Functions

public function addBazaarLoot(): array
public function getUpdateRow(): array

Uses

SellUpToValueConverter
NeededToTurnInValueConverter

3.5 Factories

3.5.1 BazaarSheetFactory

Goal

Create objects used by the BazaarSheet script

Used by

updateBazaarSheet
BazaarSheetCoordinator
BazaarSheetHandler

Extends

FactoryBase

Functions

public static function createBazaarSheetCoordinator(): BazaarSheetCoordinator
public static function createBazaarSheetSheetReader(): BazaarSheetSheetReader
public static function createBazaarSheetHandler(): BazaarSheetHandler
public static function createBazaarSheetDatabaseReader(): BazaarSheetDatabaseReader
public static function createBazaarOutput(array $bazaarLoot): BazaarOutput
public static function createBazaarSheetSheetWriter(): BazaarSheetSheetWriter

Uses

BazaarSheetCoordinator   BazaarSheetDatabaseReader
BazaarSheetSheetReader   BazaarOutput
BazaarSheetHandler   BazaarSheetSheetWriter

3.5.2 LootSheetFactory

Goal

Create objects used by the LootSheetSheet script

Used by

updateLootSheet
DatabaseResultConverter
LootSheetCoordinator
LootSheetFactory
LootSheetHandler

Extends

FactoryBase

Functions

public static function createLootSheetCoordinator(): LootSheetCoordinator
public static function createLootSheetSheetReader(): LootSheetSheetReader
public static function createLootSheetHandler(): LootSheetHandler
public static function createLootSheetDatabaseReader(): LootSheetDatabaseReader
public static function createLootOutput(string $lootName): LootOutput
public static function createLootSheetWriter(): LootSheetWriter

Uses

LootSheetCoordinator   LootSheetDatabaseReader
LootSheetSheetReader   LootOutput
LootSheetHandler   LootSheetWriter

3.6 Handlers

3.6.1 BazaarSheetHandler

Goal

Create an array of filled BazaarOutput object

Used by

BazaarSheetCoordinator

Extends

HandlerBase

Functions

public function getBazaarOutput(array $bazaarList): array
protected function getOutputFor(string $bazaarName): BazaarOutput

Uses

DatabaseSheetReader *
BazaarOutput *

3.6.2 LootSheetHandler

Goal

Create an array of filled LootOutput object

Used by

LootSheetCoordinator

Extends

HandlerBase

Functions

public function getLootOutput(array $lootList): array
protected function getOutputFor(string $lootName): LootOutput

Uses

LootSheetDatabaseReader *
LootOutput *

3.7 Readers

3.7.1 BazaarSheetDatabaseReader

Goal

Get information from the database for the BazaarSheet script

Used by

BazaarSheetHandler

Extends

DatabaseReaderBase

Functions

public function getBazaarLoot(string $bazaarName): array

3.7.2 BazaarSheetSheetReader

Goal

Get information from the completion sheet for the BazaarSheet script

Used by

BazaarSheetCoordinator

Extends

SheetReaderBase

Functions

public function getBazaarNames(): array

3.7.3 LootSheetDatabaseReader

Goal

Get information from the database for the LootSheet script

Used by

LootSheetHandler

Extends

DatabaseReaderBase

Functions

public function getBazaarNames(string $lootName): array
public function getBazaarLoot(string $bazaarName): array

3.7.4 LootSheetSheetReader

Goal

Get information from the completion sheet for the LootSheet script

Used by

LootSheetCoordinator

Extends

SheetReaderBase

Functions

public function getLootNames(): array

3.8 Writers

3.8.1 BazaarSheetWriter

Goal

Write information to the Bazaar sheet

Used by

BazaarSheetCoordinator

Extends

SheetWriterBase

Functions

public function writeBazaarInformation(array $bazaarOutput)

3.8.2 LootSheetWriter

Goal

Write information to the Loot sheet

Used by

LootSheetCoordinator

Extends

SheetWriterBase

Functions

public function writeLootInformation(array $lootOutput)