Controller

AbstractController

View : view

AbstractController (View, view)

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CommandController

- workModel : WorkModel
- backupModel : BackuModel
- commandProcessor : Processor

+ CommandController (View view, WorkModel workModel)
+ Process (string command) : void
+ showHelp (string translationKey, string parameters) : void
+ exitToMenu () : void
+ launchGrouped (List<string> listLabels, bool threaded) : void
+ launchIndividual (string label) : void
+ updateProgress(Work work) : void
+ clearConsole() : void
+ ExceptionHandler(string message) : string

MenuController

- backupModel : BackupModel

+ MenuController (View view, BackupModel backupModel)
+ getAvailableBackup () : List<Backup>
+ castIntoBackupType (string inputEnum) : BackupType
+ createBackup (string inputLabel, string inputSource, string inputDestination, string inputEnum) : void
+ editBackup (string inputSource, string inputDestination, string inputEnum, Backup backup) : void
+ getBackup (string label) : Backup
+ deleteBackup (string label) : void
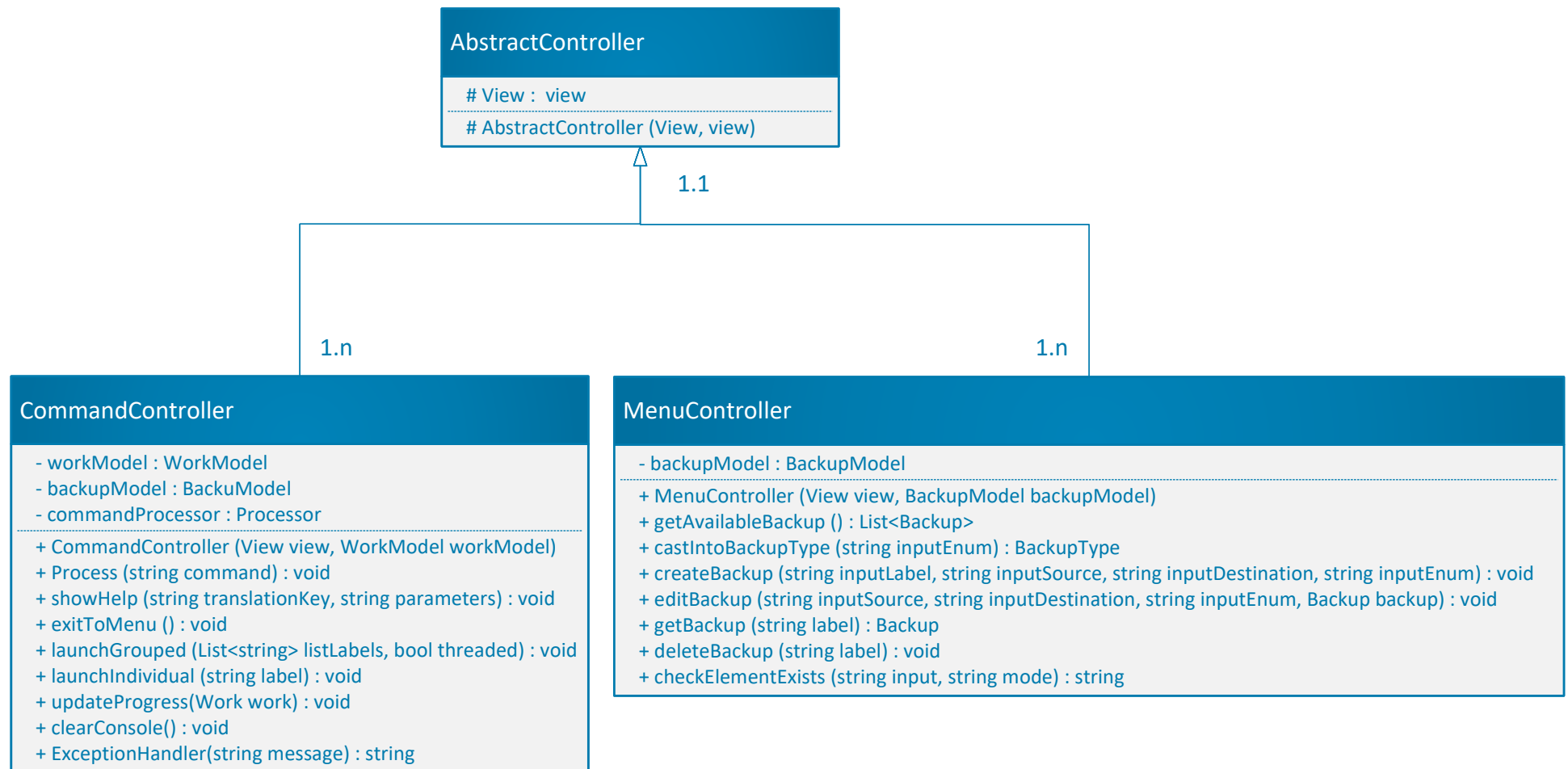+ checkElementExists (string input, string mode) : string

View

View

- input : string
- viewOptions : List<ViewOption>
- oldMenu : List<ViewOption>
- translationManager : TranslationManager
- menuController : MenuController
- commandController : CommandController
- fileCountTranslation : string
- fileSizeTranslation : string
- statusTranslation : string
- labelTranslation : string

+ View (TranslationManager translationManager)
+ initView () : void
+ SetMenuController (MenuController menuController) : void
+ SetCommandController (CommandController commandController) : void
- WriteMenu (List<ViewOption> options, ViewOption selectedOption) : void
- ask (string msg) : string
+ WriteTemporaryMessage (string message, [string message, [int sleepTime = 1000]) : void
+ WriteTemporalyMessageAndConsole (string message, int sleepTime = 1000) : void
- SwitchMenu (string newMenu) : void
- generateListBackupSubMenu () : void
- generateLanguageSubMenu () : void
- generateBackupSubMenu () : void
- changeLanguage (string locale) : void
- updateMenus () : void
- backOldMenu () : void
+ consoleHandler () : void
- createBackup () : void
- editbackup () : void
- deleteBackup () : void
- invokeActionAndHandleExceptions (Action action, string success, string exception) : void
- writeAndCheck (string showQuestion, Func<string>, verificationAction, [string baseValue) = null]) : string
+ showCommandHelp (string translationKey,string parameters) : void
- addProgress (string value,string translation, int positionView) : void
+ initiateProgressTranslation() : void
+ updateProgress(Work work) : void
+ initiateProgressBar() : void
+ ClearConsole() : void

ViewOption

+ Name {get; set; } : string
+ Key {get ; } : string
+ Selected { get: } : Action

+ ViewOption (string name, Action selected)
+ ViewOption (string name, string key, Action selected)

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Models

BackupModel

- backupPath : string
- serializerOptions : JsonSerializerOptions

+ BackupModel (string backupPath)
+ getAvailableBackups : List<Backup>
+ verifyLabelIdoesntExistAndValid (string label) : string
+ verifyLabelExists (string label) : string
+ verifyFolderExists (string folder) : string
+ verifyValidEnum (string chechedEnum) : string
+ createBackup (string inputLabel, string source, string destination, BackupType inputEnum) : void
+ editBackup (Backup backup, string source, string destination, BackupType inputEnum) : void
+ deleteBackup (string label) : void
+ getbackup (string label) : Backup
+ GetBackups (List<string> labels) : List<Backup>
- registerBackup (Backup backup) : void
- castIntoBackupType (string inputEnum) : BackupType
- testAndGiveErrorMessage (bool test, string errorMessage) : string
- convertIntoPath (string label) : string

TreadWork

- workModel : WorkModel
- backup : Backup
- positionView : int

+ ThreadWork (WorkModel workModel, Backup backup)
+ Run () : void

WorkModel

- logManager : LogManager
- commandController : Command Controller
- delEligibleFiles (string source, string dest) : delegate List<string>

+ WorkModel (string workPath, string logPath)
+ SetCommandControler (CommandController commandController) : void
+ launchIndividual (Backup backup) : void
+ launchWork (Backup backup) : void
+ launchGroupedNonThreaded (List<Backup> backups) : void
+ launchGroupThreaded (List<Backup> backups) : void
- TreadHandler (Backup backup) : Thread
- startCopyingFiles (DelEligibleFiles, Backup backup) : void
- determinateDelegateEligible (Backup backup) : DelEligibleFiles

BackupTypeConverter

+ Read (ref Utf8JsonReader reader, Type typeToConvert) : override BackupType
+ Write (Utf8JsonWriter writer, BackupType value, JsonSerializerOptions optins) : override void

Work

- backup : Backup
- status : WorkStatus
- initialFileCount : int
- remainingFileCount : int
- initialFileSize : long
- remainingFileSize : long
- currentSourcePath : string
- currentDestinationPath : string
- position : int

+ Backup () : Backup
+ InitialFileCount () : int
+ InitialFileSize () : long
+ RemainingFileCount () : int
+ RemainingFileSize () : long
+ Status () : WorkStatus
+ CurrentSourcePath () : string
+ CurrentDestinationPath () : string
+ Position () : int

WorkStatusConverter

+ Read (ref Utf8JsonReader reader, Type typeToConvert) : override WorkStatus
+ Write (Utf8JsonWriter writer, WorkStatus value, JsonSerializerOptions optins) : override void

Backup

-label : string
- type BackupType
- source string
- destination : string

+ Label () : string
+ Source () : string
+ Destination () : string
+ Type () : BackupType

Log

- name : string
- fileSource : string
- fileDestination : string
- fileSize : long
- tranferTime : double
- startDate : DateTime

+ FileSize () : long
+ TransferTime () : double
+ StartDate () : DateTime
+ Name () : string
+ FileSource () : string
+ FileDestination() : string
+ ToString () : override string

LogList

- logs : List<Log>
+ Logs : List<Log>

+ LogList ()
+ GetLogs () : List<Log>
+ AddLog (Log log) : void

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BackupType

Differential,
Complete

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WorkStatus

Active,
End

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