Summary

Name	Description
Controller	Controller of a FXML View.
WorkspaceManager	Workspaces manager.
UserConfigController	Workspaces view controller.
UserConfigModel	Workspaces model.
Preference	User preference.
Workspace	Workspace.
Preferences	Contains the user preferences. These are serialized to properties file in the workspace.

Details

WorkspaceManager

Name	Value
Description	Workspaces manager.
Visibility	public

Attributes

private LOGGER : org.slf4j.Logger			
Description	Logger.		
Initial Value	LoggerFactory.getLogger(WorkspaceManager.class)		
Type	org.slf4j.Logger		
Getter	false	Setter	false
Multiplicity	1		

public DEFAULT_WORKSPACE_PATH : String			
Description	Default workspace location.		
Initial Value	Paths.get(System.getProperty("user.home"), ".isbench", "default").toString()		
Type	🟢 String		
Getter	false	Setter	false
Multiplicity	1		

public DEFAULT_WORKSPACE_NAME : String			
Description	Default workspace name.		
Initial Value	"default"		
Type	🟢 String		
Getter	false	Setter	false
Multiplicity	1		

public DEFAULT_INPUT_PATH : String			
Description	Input default directory.		
Initial Value	"input"		
Type	🟢 String		
Getter	false	Setter	false
Multiplicity	1		

public DEFAULT_OUTPUT_PATH : String

Description	Output default directory.
Initial Value	"output"
Type	⬤ String
Getter	false	Setter	false
Multiplicity	1

public CURRENT_WORKSPACE : String

Description	Current workspace property.
Initial Value	"workspace.current"
Type	⬤ String
Getter	false	Setter	false
Multiplicity	1

public WORKSPACE_CHANGE : String

Description	Current workspace property.
Initial Value	"workspace.change"
Type	⬤ String
Getter	false	Setter	false
Multiplicity	1

private config : java.util.Properties

Description	General configuration.
Type	java.util.Properties
Getter	false	Setter	false
Derived	false
Multiplicity	1

public configPath : String		
Description	Configuration file path.	
Initial Value	Paths.get(System.getProperty("user.home"), ".isbench", "isbench.properties").toString()	
Type	🟢 String	
Getter	false	Setter	false
Multiplicity	1	

private me : WorkspaceManager		
Description	Single instance.	
Type	📘 WorkspaceManager	
Getter	false	Setter	false
Multiplicity	1	
Is ID	false	
Leaf	false	

private current : Workspace		
Description	Current workspace.	
Type	📘 Workspace	
Getter	false	Setter	false
Multiplicity	1	

Operations

protected WorkspaceManager ()	
Description	Constructor. Protected constructor. For gets an instance of WorkspaceManger, will must be use the get() method.

protected WorkspaceManager (configPath : String, config : java.util.Properties)		
Parameters	**configPath**	
	Description	Configuration file path.
	Multiplicity	1
	Type	⬤ String
	Direction	inout
	config	
	Description	Configuration properties file.
	Multiplicity	1
	Type	java.util.Properties
	Direction	inout
Description	Protected constructor. For gets an instance of WorkspaceManger, will must be use the get() method.	

public get () : WorkspaceManager	
Description	Returns a single instance of WorkspaceManager.
Return Type Description	WorkspaceManager single instance.

protected initialize () : void	
Description	Initializes the workspacemanager.
	If no exists the config file, creates it.
	If the current workspace not is setted, creates the default workspace and sets it as the current.

protected initConfig () : void	
Description	Loads the isbench.properties file and if no exists, creates it.
Exceptions	IOException if read / Write error occur.

protected setCurrentWorkspace (ws : Workspace) : void		
Parameters	**ws**	
	Multiplicity	1
	Type	Workspace
	Direction	inout
Description	Only for testing purpose.	

public createDefaultWorkspace () : void	
Description	Creates the default workspace.

public create (ws : Workspace, current : boolean) : void		
Parameters	**ws**	
	Description	Workspace info.
	Multiplicity	1
	Type	Workspace
	Direction	inout
	current	
	Description	If sets this workspace to the current.
	Multiplicity	1
	Type	boolean
	Direction	inout
Description	Create the basic workspace directories and files hirerchachy, based on the info that contains the ws param.	

public currentWorkspace () : Workspace	
Description	Returns the current workspace.
Return Type Description	Current workspace.

public registeredWorkspaces () : java.util.List<Workspace>	
Description	Returns the registered workspaces list.
Return Type Description	Workspaces list.

public change (ws : Workspace) : void

Parameters	ws	
	Description	Workspace.
	Multiplicity	1
	Type	Workspace
	Direction	inout
Description	Mark a workspace as current. The change will take effect with commitPendingChanges() method.	

public commitPendingChanges () : void

Description	The workspace change takes effect.

public getPreference (name : String) : String

Parameters	name	
	Description	Preference name.
	Multiplicity	1
	Type	String
	Direction	inout
Description	Gets a preference value of the current workspace.	
Return Type Description	Preference value. null if the preference not exists.	

public getPreferenceAsFile (name : String) : java.io.File

Parameters	name	
	Description	Preference name.
	Multiplicity	1
	Type	String
	Direction	inout
Description	Assume that a preference value is the file path and returns as it.	
Return Type Description	File given from the consulted preference.	
Exceptions	InvalidPathException if the path string cannot be converted to a Path.	

public addPreference (name : String, value : String) : void		
Parameters	**name**	
	Description	Name.
	Multiplicity	1
	Type	⬤ String
	Direction	inout
	value	
	Description	Value.
	Multiplicity	1
	Type	⬤ String
	Direction	inout
Description	Adds a new preference.	

public savePreferences (prefs : Preferences, wsLocation : String) : void		
Parameters	**prefs**	
	Description	Preferences.
	Multiplicity	1
	Type	🗎 Preferences
	Direction	inout
	wsLocation	
	Description	Directory of the preferences.properties file.
	Multiplicity	1
	Type	⬤ String
	Direction	inout
Description	Saves the preferences in a preferences.properties file, in a path (wsLocation param).	
Exceptions	IOException if an error saving the file occur.	

public createDefaultPreferences (wsLocation : String) : Preferences		
Parameters	**wsLocation**	
	Multiplicity	1
	Type	⬤ String
	Direction	inout
Description	Create a default preferences.	
Return Type Description	Prefrences created.	

protected saveWorkspace (ws : Workspace, current : boolean) : void		
Parameters	**ws**	
	Description	Workspace.
	Multiplicity	1
	Type	▦ Workspace
	Direction	inout
	current	
	Description	If sets this workspace to the current.
	Multiplicity	1
	Type	⬤ boolean
	Direction	inout
Description	Save workspace in config file.	
Exceptions	IOException if an error saving the file occur.	

protected saveConfig () : void	
Description	Save the config in the file.
Exceptions	IOException if an error saving the file occur.

▦ UserConfigController

Name	Value
Description	Workspaces view controller.
Visibility	public
Stereotypes	controller

Attributes

private model : UserConfigModel		
Description	Workspaces model.	
Type	UserConfigModel	
Getter	false	Setter	false
Multiplicity	1	

private wsManager : WorkspaceManager		
Description	Workspaces manager.	
Type	WorkspaceManager	
Getter	false	Setter	false
Multiplicity	1	

Operations

public initialize (url : java.net.URL, rb : java.util.ResourceBundle)		
Parameters	**url**	
	Description	View URL.
	Multiplicity	1
	Type	java.net.URL
	Direction	inout
	rb	
	Description	Internationalization resources.
	Multiplicity	1
	Type	java.util.ResourceBundle
	Direction	inout
Description	Initializes the controller class.	

public initModel ()	
Description	Initializes the model with the registered workspaces.

public initBindings ()	
Description	Initializes the view-model bindings.

public handleSelectWorkspace (ev : ActionEvent)	
Parameters	**ev**	
	Description	Action event.
	Multiplicity	1
	Type	ActionEvent
	Direction	inout
Description	Handles the event thrown when *Search*(...) button is pressed. Open a dialog for directory selection. The selection shows in the Location field.
Stereotypes	FXML

public handleSaveEvent (ev : ActionEvent)	
Parameters	**ev**	
	Description	Action event.
	Multiplicity	1
	Type	ActionEvent
	Direction	inout
Description	Handles the event thrown when Save button is pressed. Invokes the save() method to save the changes and closes
Stereotypes	FXML

public handleCancelAction (ev : ActionEvent)	
Parameters	**ev**	
	Description	Action event.
	Multiplicity	1
	Type	ActionEvent
	Direction	inout
Description	Ignores the changes and closes the window.
Stereotypes	FXML

public save ()	
Description	Saves the workspace change. If the workspace is new, asks to the user if he would like establish it as the current workspace.
	If the user accepts, shows a new message indication that the change will take effect in the next application start.

UserConfigModel

Name	Value
Description	UserConfig view model.
Visibility	public

Attributes

private workspacesList : javafx.beans.property.ListProperty			
Description	Workspaces list.		
Type	javafx.beans.property.ListProperty		
Getter	false	Setter	false
Multiplicity	1		

private workspaceSelected : javafx.beans.property.ObjectPropertyBase			
Description	Workspace selected binding property.		
Type	javafx.beans.property.ObjectPropertyBase		
Getter	false	Setter	false
Multiplicity	1		

private preferences : javafx.beans.property.ListProperty			
Description	Preferences of selected workspace binding property.		
Type	javafx.beans.property.ListProperty		
Getter	false	Setter	false
Multiplicity	1		

Operations

public UserConfigModel ()	
Description	Constructor.

public workspacesListProperty () : javafx.beans.property.ListProperty	
Description	Workspaces list binding property.
Return Type Description	Workspaces list binding property.

public setWorkspacesList (workspaces : java.util.List<Workspace>) : void		
Parameters	**workspaces**	
	Description	Workspaces paths.
	Multiplicity	0..*
	Type	java.util.List<Workspace>
	Direction	inout
Description	Sets the workspaces list.	

public workspaceSelected () : javafx.beans.property.Property	
Description	Selected workspace binding property.
Return Type Description	Selected workspace binding property.

public getWorkspaceSelected () : Workspace	
Description	Gets the selected workspace from workspaceSelected property.
Return Type Description	The selected workspace.

public preferencesProperty () : javafx.beans.property.ListProperty	
Description	Preferences list binding property.
Return Type Description	Preferences list binding property.

protected updatePreferences () : void	
Description	Updates the preferences with the selected workspace's preferences.

public setWorkspaceSelected (workspaceSelected : Workspace) : void		
Parameters	**workspaceSelected**	
	Description	The workspaceSelected to set.
	Multiplicity	1
	Type	Workspace
	Direction	inout
Description	Sets the selected workspace.	

Preference

Name	Value
Description	User preference.
Visibility	public

Attributes

private name : String			
Description	Name.		
Stereotypes	Property		
Type	String		
Getter	true	Setter	true
Multiplicity	1		

private value : String			
Description	Value.		
Stereotypes	Property		
Type	String		
Getter	true	Setter	true
Multiplicity	1		

Operations

public Preference ()	
Description	Constructor.

public Preference (name : String, value : String)		
	name	
	Description	Name.
	Multiplicity	1
	Type	🟢 String
	Direction	inout
	value	
	Description	Value.
	Multiplicity	1
	Type	🟢 String
	Direction	inout
Description	Constructor.	

public hashCode () : int	
Description	Compute the hash code based on the name property.
Return Type Description	Hash code.

public equals (obj : Object) : boolean		
Parameters	**obj**	
	Description	Object to compare.
	Multiplicity	1
	Type	Object
	Direction	inout
Description	Two Preference instances are equal if their names are.	
Return Type Description	True if the obj parameter is a Preference instance, and its names is equal to this instance name.	

▤ Workspace

Name	Value
Description	Workspace.
Visibility	public

Attributes

private name : String			
Description	Name.		
Stereotypes	Property		
Type	⬤ String		
Getter	true	Setter	true
Multiplicity	1		

private location : String			
Description	Location.		
Stereotypes	Property		
Type	⬤ String		
Getter	true	Setter	true
Multiplicity	1		

private preferences : Preferences			
Description	User preferences in the workspace.		
Stereotypes	Property		
Type	▤ Preferences		
Getter	true	Setter	true
Multiplicity	1		

Operations

public Workspace (name : String, location : String)		
Parameters	**name**	
	Multiplicity	1
	Type	🟢 String
	Direction	inout
	location	
	Multiplicity	1
	Type	🟢 String
	Direction	inout
Description	Creates a workspace with the name and location specified.	

public Workspace ()	
Description	Constructor.

public toString () : String	
Description	Workspace string representation, this is the absolute path of its location.
Return Type Description	Workspace string representation.

Preferences

Name	Value
Description	Contains the user preferences. These are serialized to properties file in the workspace.
Visibility	public

Attributes

private preferencesList : Preference			
Description	Preferences list.		
Stereotypes	Property		
Type	Preference		
Getter	true	Setter	false
Multiplicity	0..*		

private LOGGER : org.slf4j.Logger			
Description	Logger.		
Initial Value	LoggerFactory.getLogger(Preferences.class)		
Type	org.slf4j.Logger		
Getter	false	Setter	false
Derived	false		
Multiplicity	1		

Operations

public Preferences ()	
Description	Constructor.

public Preferences (p : java.nio.file.Path)		
Parameters	**p**	
	Description	Preferences file absolute path.
	Multiplicity	1
	Type	java.nio.file.Path
	Direction	inout
Description	Builds an instance based on an existent preferences file.	

public getPreference (preference : String) : String		
Parameters	**preference**	
	Description	Preference name.
	Multiplicity	1
	Type	⬤ String
	Direction	inout
Description	Preference value.	
Return Type Description	Preference value.	

public put (name : Object, value : Object) : Object		
Parameters	**name**	
	Description	Name.
	Multiplicity	1
	Type	Object
	Direction	inout
	value	
	Description	Value.
	Multiplicity	1
	Type	Object
	Direction	inout
Description	Creates or modify a preference.	
Return Type Description	Previous value of modified preference.	

public setPreference (name : String, value : String) : String		
Parameters	**name**	
	Multiplicity	1
	Type	○ String
	Direction	inout
	value	
	Description	Value.
	Multiplicity	1
	Type	○ String
	Direction	inout
Description	Sets the value of a preference. If value is null, remove the preference if exists.	