

openInstaller Developer Tools Requirements

v0.1

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Introduction

This document defines the project requirements for openInstaller Developer Tools.

Requirements

Id	Requirement Name	Description	Type
1	HIDE_COMPLEXITY_OF_INSTALLER_FRAMEWORK	Tool should help the installer developer (user) to develop installers, provide a user friendly interface and hide the complexity of the installer framework as much as possible.	Required
2	CREATE_NEW_PROJECT	Ability to create installer projects for one or more related components. User can choose to create installer project anywhere on a writable disk partition and has a choice of selecting sub folders which contain installer projects.	Required
3	EDIT_EXISTING_PROJECT	User should be able to load existing installer project for editing. (Round-trip editing).	Required
4	CREATE_NEW_FILES	Ability to create the required files for the installer.	Required
5	EDIT_REQUIRED_FILES	User should be able to visually enter/edit values for all fields in the schema for all required file-types that make up the installer.	Required
6	INCLUDE_INSTALL_UNITS	User should be able to specify a number of install units in a easy way. For e.g.: point to a directory and tool should read all install units in that directory.	Required
7	VIEW_DEPENDENCIES	Dependencies between CPs should be specified and visualized in a user friendly graphical way.	Required
8	TYPE_CHECKING_USER_INPUT	Data types supported in input fields should be restricted to the data types supported by the schema.	Required
9	INLINE_VALIDATION_OF_USER_INPUT	Intelligent (in-line) validation of user entered data should be performed.	Required

10	FILL_DEFAULTS	Tool should be smart enough to infer/deduct as much of input data as possible and populate defaults or avoid errors related to user inputs.	Required
11	VIEW_EDIT_GENERATED_XML	User should be able to see the XML files that will be generated as they start providing input data.	Required
11a	ADVANCED_EDITING_XML	User should be able to edit the XML files in the XML file view and the tool should accept these changes and make the rest of the UI in sync.	Required
12	IMPORT_FILES_BY_REFERENCE	User should be able to refer external files into the project.	Required
12	IMPORT_FILES_BY_COPY	User should be able to include external files into the project.	Required
12	IMPORT_FILES_BY_PARTS	User should be able to create new files by re-using the parts of the existing files.	Required
13	BEST_PRACTICE_CHECK	Tool should be smart enough to check for errors or data that violates best practices and suggest better ways to the user.	NiceToHave
14	SCM_ACCESS	User should be able to specify Source control repository data and tool should be able to check in the generated XMLs in the given repository.	NiceToHave
15	BRAND_INDEPENDENT_INSTALLER	Tool should avoid having built-in Brand specific intelligence or brand specific data or hard coded values or validations etc. This requirement is needed to support open sourcing of the tool and for the tool to be used in a generic way for generation of any installer.	Required
15	BRAND_INDEPENDENT_INSTALLER_PLUGIN	Brand Specific code or data could be separated into a run time loadable "plug-in" to the tool.	Required
16	STORE_INSTALLER_DATA_ONLY_IN_XMLS	Tool should not require saving data in any other form other than the openInstaller XMLs.	Required
17	EDIT_PARTIAL_XML	Tool should be able to save, load and edit partial XMLs	NiceToHave
18	TOOL_DISTRIBUTION_AND_DEPLOYMENT	Tool should be delivered as a Stand alone application (based on Netbeans platform) and a Netbeans Module/plugin.	Required
19	BUILD_INSTALLER_AND_TEST	Tool should provide capabilities to build the installer and run the installer. User should be able to build and run the installer within the tool itself, where possible.	Required
20	VIEW_PANEL MOCKUP	Tool should provide panel view mock-ups for quick verification of panel view data.	NiceToHave

21	INSTALLER_RUNTIME	The tool should bundle Installer Framework runtime into the final installer image along with other edited files.	Required
22	CUSTOMIZE_INSTALLER_PROJECT	The tool should provide options for editing the project metadata such as installer image layout, edit license, log location, media layout location, location of configuration files. These paths can be relative (to install_image_loc) or absolute	Required
23	INSTALLER_PROJECT_INTEGRITY_CHECK	The tool should validate and verify all aspects of the installer project before its get built.	Required
24	EASY_INSTALLER_GENERATOR_FOR_NETBEANS	The tool should enable easy generation of installers for any Netbeans module suite from within the IDE itself.	