



UML-HAZOP
Hazard and Defects Analysis Tool

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UML-HAZOP – SUPPORT FOR UML MODELS INSPECTION

UML-HAZOP tool is a multi-user software system supporting UML models inspection using UML-HAZOP method. UML-HAZOP is a dedicated inspection technique which focuses and guides the inspectors' attention using a set of generic guidewords suggesting various types of defects.

UML-HAZOP tool provides services covering areas of the method that can be automated or aided by a computer. The key areas supported by **UML-HAZOP tool** are Planning, Analysis & Recording and Validation phases of the inspection process.

The system is oriented on team-working. Its users cooperate within distinct projects and are assigned to certain roles. Each role restricts the scope of activities for a given user in the project context.

UML-HAZOP tool maintains a knowledge base of UML elements, attributes and guidewords together with attribute-guideword interpretations and supports the inspection process

UML-HAZOP tool is designed as an Internet application supporting distributed project teams. Consequently, physical proximity of the members of the inspection team is not required. The task of performing the analysis of an UML model can be assigned to an independent inspector (not necessarily involved in the development of the model). The inspector may be situated in another city or country. **UML-HAZOP tool** can be considered as a communication platform that allows inspection participants to exchange information about partial or final results of the analysis process. The tool supports multiple teams working on multiple projects at the same time. It also assures persistence, integrity and confidentiality of all stored data.

Areas supported by **UML-HAZOP tool** include:

- Project management
 - creating, closing, reopening and deleting projects
 - describing projects
 - assigning users to projects with given privileges
- HAZOP tables (checklists) generation
 - uploading a file containing model
 - creating HAZOP tables for diagrams selected by user
 - eliminating needless rows from tables
- Analysis and Recording support
 - marking decisions about presence of defects
 - adding comments explaining defects and suggesting the way of their correction
- Validation support
 - marking decisions confirming or denying presence of defects
 - adding comments explaining decisions
- Storing results
 - storing in a persistent way all results of the inspection process (HAZOP tables, inspector' and author's decisions and comments)
 - allowing authorised users to examine the results
- Knowledge base
 - description of all attributes, guidewords and deviations

UML-HAZOP tool is designed as an Internet client-server service available only for registered users.

To learn more about **UML-HAZOP tool** contact us:

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