

Variability-Aware Smell Catalog

Smell Type	Description
Bad mandatory Child-Feature	When a mandatory child-feature has a father feature, which is an optional feature.
Poor Annotation Trace	When source code annotations do not map quite precisely which code portion implements each feature.
Redundant Annotation	It is characterized when one code portion (e.g. class, method, or code block) is redundantly annotated, in a nested fashion, with the same feature tag name (same feature).
Conflicting Annotation	When a mandatory feature is annotated in source code. However, using conditional compilation mechanism only optional feature should be annotated in source code.
Bad Annotation Name	When the annotation tag name in source code does not correspond exactly to the feature name in the feature model.
Lack of Annotation	When there is annotation omission in the source code for optional features defined in the feature model.