

Use Case (1)

Brief Description	Application can be used in order to decide the right pattern
Actors	Any stakeholder involved in the Software Development Life Cycle
Preconditions	Requirement Document from the Requirement Elicitation phase or detailed description of the given task
Basic Flow of Events	The user answers a set of questions. The answers are internally mapped against a set of business rules in order to suggest the best possible pattern
Post Conditions	The output will be the best possible pattern for the given use case. Additionally, a sample diagram of the particular pattern will also be shown which will serve as a point of reference

Use Case (2)

Brief Description	Application can be used as a support tool to detect anti-patterns in existing solutions
Actors	Project Manager / Team Leads / Developers
Preconditions	Anomalies in the behavior of an existing system. Also, difficulties in development or maintenance which could also indicate presence of anti-patterns
Basic Flow of Events	The user answers a set of questions related to the anomalies/difficulties being experienced
Post Conditions	The output indicates possible anti-pattern being present. Additionally, corrective measures will be suggested

Use Case (3)

Brief Description	Users will be provided a dashboard where they can keep track of their previous actions and provide feedback about the system by making use of the feedback mechanism. User can also suggest a new pattern by filling up a form.
Actors	Any stakeholder involved in the Software Development Life Cycle
Preconditions	User has to have previously used the system and obtained a result or User must have a new pattern to suggest
Basic Flow of Events	User can provide a feedback once the implementation of a task based on the results of TUM Nostradamus is complete. In case User has a new pattern to suggest, it can be done by simply filling up a form.
Post Conditions	The feedback will then used by the administrators to appropriately update the business rules.

Use Case (4)

Brief Description	Application provides an admin console for the administrators to check the effectiveness of existing business rules. Additionally, suggested new patterns can be reviewed and added to the existing business rules
Actors	Administrators
Preconditions	Sufficient amount of feedback from the user base in order to review existing business rules. New patterns suggested by users which have to be added based on review.
Basic Flow of Events	The administrators use the admin console to keep track of the performance of existing business rules and also track new patterns which can be added
Post Conditions	Based on the statistics and feedback, existing business rules will be modified or new ones will be added.