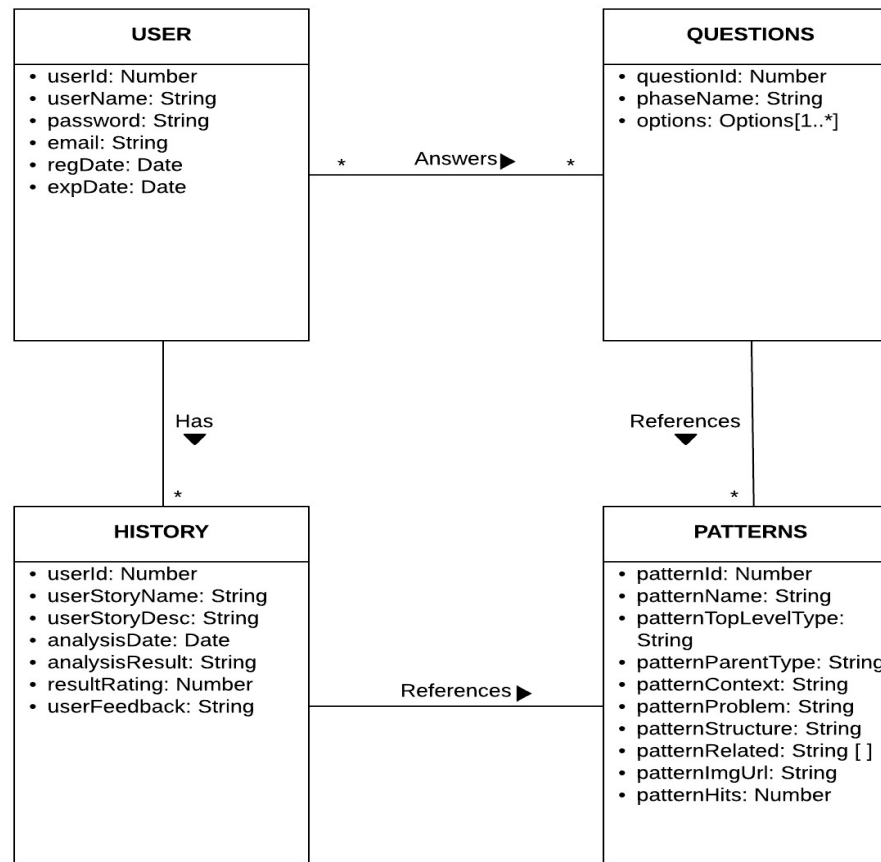


Nostradamus: A prototype

SEBA – Web Application Engineering
Group 09

- ❑ An application intended to provide comprehensive suggestions of patterns that are most suited for a specific scenario.
- ❑ In addition to pattern suggestion, it also helps users to detect various anti-patterns that may be present in an already developed software.
- ❑ The application also saves user history in the form of an interactive dashboard, that allows the user to rate/provide feedback about the solution suggested.
- ❑ Comprises of a learning center that enables a user to learn more about patterns and their usage. Allows user suggested patterns to be included in the knowledge base.
- ❑ A business model primarily based on Subscription model.

CONCEPTUAL DATA MODEL



Landing page: Mockup

A Web Page

← → ↺ 🔍 http://

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What is TUM Nostradamus?

Here we will give an overview of Design Patterns, Anti Patterns and Role of Our tool in identifying them.
We also provide an overview of our services

Why TUM Nostradamus?

```
graph LR; RP[Requirement Phase] --> TN[TUM Nostradamus]; TN --> AP[Architectural Pattern]; DP[Design Phase] --> TN; TN --> DP2[Design Pattern]; DevP[Development Phase] --> TN; TN --> DP3[Design Pattern / Anti-Pattern]
```

News feed/Feedbacks

User Name :
Comments

User Name :
Comments

User Name :
Comments

.....

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Use Case 1: Description


Suggest suitable pattern

- ☐ This use case suggests the best possible patterns that can be used for a specific scenario during software design or development.
- ☐ For a specific user story, the application displays a set of questions in form of a quiz, which the user must answer and submit.
- ☐ Based on the user answers the application suggests the most suitable pattern as a solution for a given user story.

Use Case 1: Mockups

A Web Page

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TUM Nostradamus | [Dashboard](#) | [Identify Design Pattern](#) | [Identify Antipattern](#) | [Learning Center](#) 

Add Your User Story | [Phase I](#) | [Phase II](#) | [Last Phase](#)

Add Your User Story

User Story Name

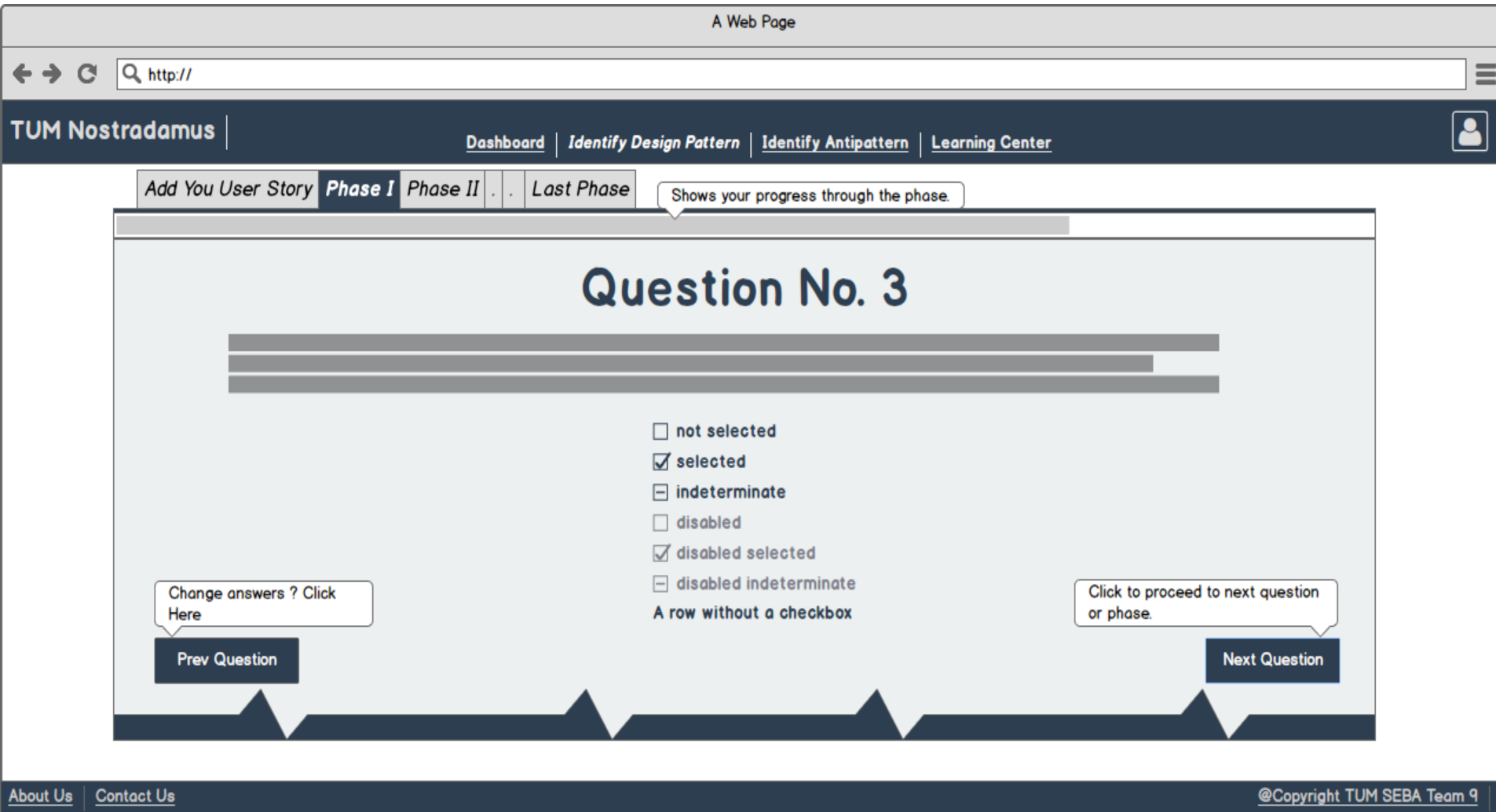
Allowed characters alphabets, numbers, _ and - (Max 256)

User Story Description

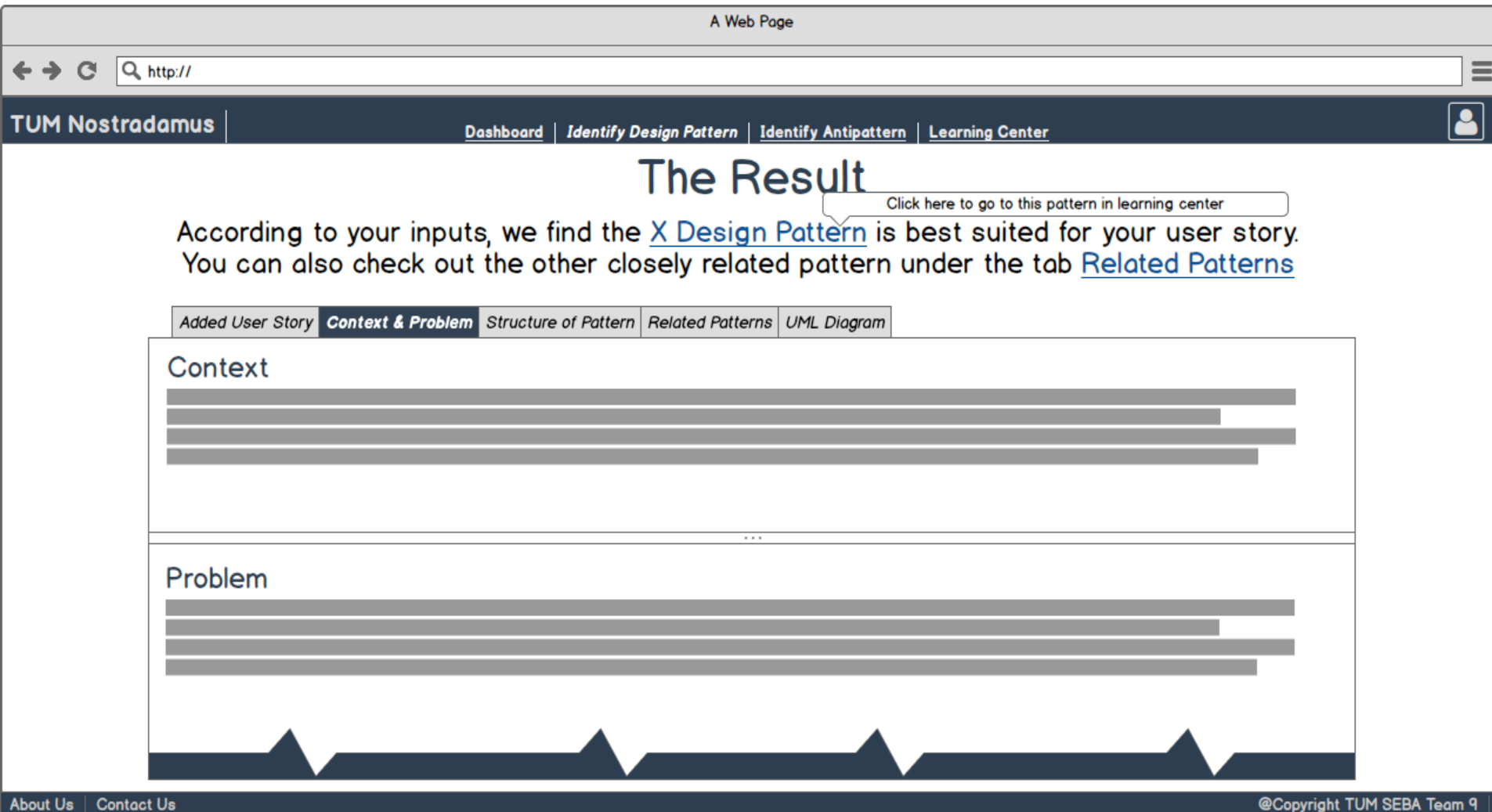
[Save and Proceed](#)

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Use Case 1: Mockups



Use Case 1: Mockups



Use Case 2: Description

User Dashboard and Feedback

- ☐ Users are provided with a personal and an interactive dashboard.
- ☐ This dashboard keeps a track of the user's history and provides a mechanism for user feedback.
- ☐ This also displays the number of subscription days remaining for the user.
- ☐ The users feedback of the suggested solutions is used by the application in order to improve future suggestions.
- ☐ Displays all solutions suggested, implemented previously and the user given ratings for the same.

Use Case 2: Mockups

A Web Page

← → ↺

Q http://

☰

TUM Nostradamus

DASHBOARD

Identify Pattern

Identify Antipattern

Learning Center

👤

Date	Use Case	Result	Rating	Comment
12.05.2016	Use Case 5	DP : Adapter Pattern	<input checked="" type="radio"/> 5 <input type="radio"/> 4 <input type="radio"/> 3 <input type="radio"/> 2 <input type="radio"/> 1	Worked extremely well with the given use case
12.05.2016	Use Case 4	DP : Strategy Pattern	<input type="radio"/> 5 <input type="radio"/> 4 <input checked="" type="radio"/> 3 <input type="radio"/> 2 <input type="radio"/> 1	Pattern suggested was okay for the given task
13.05.2016	Use Case 3	AP : Blob	<input type="radio"/> 5 <input checked="" type="radio"/> 4 <input type="radio"/> 3 <input type="radio"/> 2 <input type="radio"/> 1	Identified the exact problem in my code!
15.05.2016	Use Case 2	DP : Bridge	<input type="radio"/> 5 <input type="radio"/> 4 <input type="radio"/> 3 <input type="radio"/> 2 <input type="radio"/> 1	TO BE RATED
20.05.2016	Use Case 1	AP: Golden Hammer	<input type="radio"/> 5 <input type="radio"/> 4 <input type="radio"/> 3 <input type="radio"/> 2 <input checked="" type="radio"/> 1	Anti pattern recognized was incorrect
....	On hover : Use Case description will be displayed		

Number of subscription days left :

News Feed : Latest Patterns
- New pattern added. Learn more here : [samplelink](#)

Your suggested pattern has been incorporated! Check it [here!](#)

Suggestion success percentage :

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Use Case 2: Mockups

A Web Page

← → ↺

Q http://

☰

TUM Nostradamus

DASHBOARD

Identify Pattern

Identify Antipattern

Learning Center

Date	Use Case	Result	Rating	Comment
12.05.2016	Use Case 5	DP : Adapter Pattern	<input checked="" type="radio"/> 5 <input type="radio"/> 4 <input type="radio"/> 3 <input type="radio"/> 2 <input type="radio"/> 1	Worked extremely well with the given use case
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Suggestion success percentage :

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Thank you!

Questions..