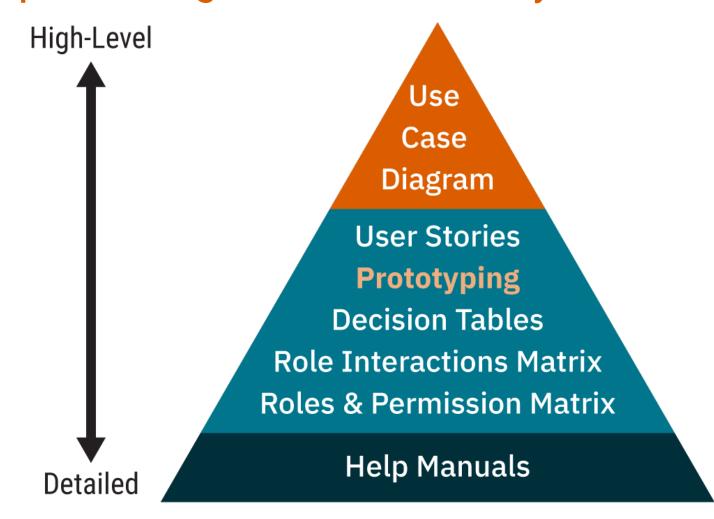# Techniques Categorized for User System Interaction

Techniques Categorized for User System Interaction

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Describe User System Interaction using Prototyping

Example: How to describe these users' interaction with the system

- Training Management Platform
- Provides a common place where trainer creates trainings and trainees attend them
- Platform providing end-to-end training lifecycle functionalities
- Roles?

Trainer   Trainee   Finance   Training Platform

Example Use Cases

Trainer

Trainee

Create training
Add training content
Add training evaluation
Answer queries
Conduct training
Modify training
Delete training
Raise training invoice

Search training
View training
View results
Print results
View reports / trends
Register Profile

Attend training
Undergo training evaluation
Submit queries
Rate training
Pay for training

Calculate trainer's fees
Publish results
Training Auto-evaluation

Process invoice
Pay the trainer

Training Platform

Finance
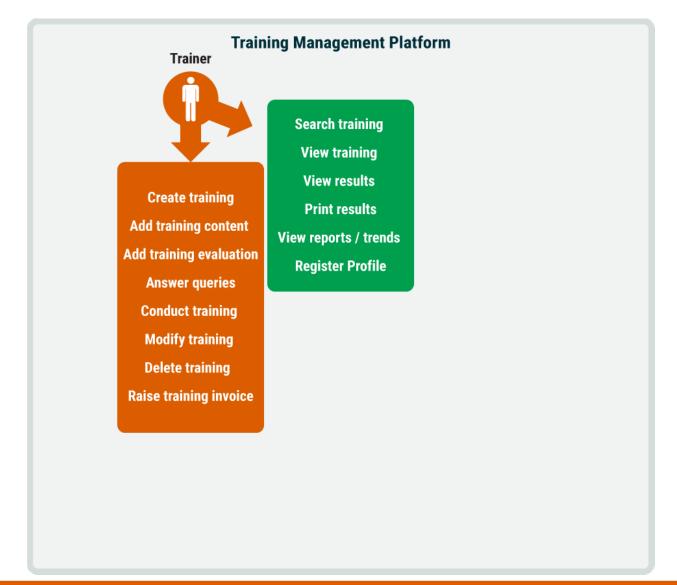
Training Management Platform

Training Management Platform

User Story: Create Training

User Story Structure
- Who: As a trainer
- What: I want to create training
- Why: So that I can publish it on training management platform

Acceptance Criteria
- Given: (some context) The trainer has registered profile
- When: (some action is carried out) The trainer enters all the relevant mandatory details about training
- Then: (a particular set of observable consequences should obtain) A training is created

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Prototype Approach

Throwaway Prototypes:

- Generated with simple tools (such as paper and pencil, a whiteboard, or software) to serve the goal of uncovering and clarifying requirements.

Evolutionary Prototypes:

- Are created to extend initial requirements into a functioning solution as requirements are further defined through stakeholder use.

Create Training Example Prototype

Training Name	
Training Description	
Training Thumbnail Image	[ ] Browse Upload
Training Duration	Select Hours ▼ Select Mins. ▼
Training Audience	- Category - ▼ - Subcategory- ▼
Training Price (in USD)	
Training Content	[ ] Browse Upload

Create   Cancel   Reset

'How to': Prototyping

1. Define the scope of user interaction that you want to describe using prototyping e.g., is it a modified functionality or a new one; or is it a complete system or partial system.
2. Select prototyping approach. E.g., use of throwaway or evolutionary:
   - If you want quick feedback, without investing lot of time and effort, go with the throwaway approach.
   - If you have access to specialized tools to create prototypes and you are proficient with it as BA, then you can use the evolutionary approach.
3. Go through multiple iterations with involved users and stakeholders.

'How to': Prototyping

4. Set expectations. If it is a throwaway prototype, let the stakeholders know about it explicitly.
5. List expected output, fields or pieces of information.
6. Assign limited set of values to these inputs e.g., think about providing dropdown instead of open text fields.
7. Think from end user's perspective to finalize fields for prototype.
8. Group / categorize the information e.g., instead of having 100 fields about Personal Information, you can categorize them into - Personal Details, Address, Contact Details etc.
9. You can use pen and paper to create such prototypes.

- BABOK Guide ref: 10.36 Prototyping

Learn More

User System Interactions Documents

Describing User System Interactions: Introduction
Scoping User System Interactions Part 1
Techniques for User System Interactions Part 2
User Story-Technique for User System Interaction
Decision Table -Techniques for User System Interaction
Help Manuals -Technique for User System Interaction
Prototyping -Techniques for User System Interaction
Roles& Permission Matrix -Technique for USI

Roles & Permission Matrix – Basic & Advanced
Use Case Diagram -Technique for USI
Role Functionality Questionnaire
Meeting Preparation Checklist
Observation Steps - Technique
Creating a User Story Template
Example of a Help Manual

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