

## Bansilal Ramnath Agarwal Charitable Trust's

Vishwakarma Institute of Information Technology

# Department of Artificial Intelligence and Data Science

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Class: SY Division: B Roll No: 272028

Semester: IV Academic Year: 2022-2023

Subject Name & Code: Software Engineering, ADUA22204

Title of Assignment: Write the Goals, Requirements (Functional, Non-functional, User Interface) of your three CPS (Customer Problem Statement)

Aim: Write the Goals, Requirements (Functional, Non-functional, User Interface) of your three CPS (Customer Problem Statement)

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-	Name: Siddhesh Tilip Khairnar
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	Title: Identify Goals, Requirement (funtional, non functional, UT) and perform Analysis of acustomer Problem statement
	and perform Analysis of a customer Problem statement
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91	Why there is need of requirement engineering?
Ansi	Requirement engineering is the process of gathering, analyzing, and
	documenting the requirement for a software system.
(1)	Il is to essential skp in software development process because it help
	to ensure mat the final product meets stakeholder and users
1000	without proper requirement engineering, much is a risk of developing
	a system that does not meet the needs of usex or is difficult to use,
	maintain and evelve.
10)	Additionally, requirement engineering provides a clear understanding of the
	Additionary, requirement engineering provides a clear understanding of the layest scope and objective, which helps to guide the design and develop-
	- Munital system.
V)	Morever, requirement engineering engineering also help to identify any
	Potential gaps on inconsistences in the requirement and to solve resolve
	Thum before the development process begins.
UI)	Insummary, requirement engineering is a critical step in software
	development process that helps to ensure that final product meet the
	ned of wers
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92	What are functional non functional and user interface requirement
-	functional requirement:
	hinctional requirement are specific features to or capabilities that a
-	software system must have in order to meet the meds of stakeholder &

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•	nese requirement define what the system should do I and typically include specific actions, calculation or processing that system must be able topagoms.
	indude specific actions, calculation or processing that susten must
	re able to performs.
ii	Non functional Requirement:
	Non functional Requirement are the characteristic on attributes
	of a software system that do not putain to its specific functions, but
	mother how well two two are performed.
	These requirement includes thing likes performance, security,
	scalability and usability.
	U U
iji	user interface requirement:
	User Interface requirement describe how the system should interact
	with user and how user should interact with system.
	These requirement include Things like layout, navigation and overall
	design and look of UI.
*	Aunuse types of regularement are important in the software developmen
	process, askey holp to ensure that final broduct meets the needs
	of users and is easy to use, maintain and evolve.
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CP (I): Customer feels insecure in transaction through online mode to book ticket of park.

Goal: To build and deploy secure system for easy transaction.

#### Functional:

- 1) System must contain function of Transaction correction, adjustment and cancellation.
- 2) System must able to send OTP, notification alerting regarding money transfer has been detected

#### Non-Functional:

- 1) System must not disclose information of user like account number, bank detail etc.
- 2) System must be quick and responsive.
- 3) System must be secure and protected.

UI:

- 1) Interactive design.
- 2) Easy to use.
- 3) Must able to handle many people at same time.

CP (II): Student are trying to learn various course in online mode but content website is not responsive.

Goal: We will build a responsive website.

#### Functional:

- 1) Our website should contain latest technology and must stay updated frequently.
- 2) It should have a proper notification message which will pop up before opening any file or any course.

#### Non-Functional:

- 1) It should refresh continuously without disturbing user.
- 2) It must have access to the computer files and browsers so that student must able to upload their assignment.
- 3) Student must able to see updated detail easily and quickly.

UI:

- 1) Interactive design.
- 2) Easy to use.
- 3) Interactive video player must be used in video.

CP (III): Scientist is researching on topic but unable to find proper detail of concept.

Goal: Make a website and android application containing all blog and project related information.

#### Functional:

- 1) Our system will take input of project requirement and bases upon that will give suggestion.
- 2) Our system will also suggest the scientist that in which area he can apply their project.

#### Non-Functional:

- 1) System should able to handle many users at a time.
- 2) It should individually act with that user.

### UI:

- 1) Easy to use.
- 2) Small size.

#### Conclusion:

In this way, we can categories the functional, non-functional and UI. This will help to understand the CP easily.