K J Somaiya College of Engineering

A Constituent College of Somaiya Vidyavihar University

Course: Introduction to Project Based Learning

Template for Problem Statement

Date: 16/10/2023

Need Statement:

Batch: P-3-2 Group: 6

Roll Number	Name of Student	Role played (Designer / Customer)
26	Charu Malpanè	Gut Designer
27	Cherayu Mutha	customer
28	Devansh pant	Designar
29	Devanshi puthran	Designul
30	Dhamik Chandel	Customers

Table 1: List of The sample Questionnaire to design the problem

Questions such as	This question helps the designer to
1. who is the client and	
-torget audience?	
2. what design solution is the client thinking for?	
3. When will the design be needed and for how long?	Identify client's objective
4. where will be the dusign be used?	
5 what is the use of Snigst helmit?	

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Are there are data privary and security constraints that need to be addressed from smart 2. constraints regarding power consumption.	Identify constraints
interface and control mechanisms?	
1. Head protection	
2. GPS and Nanigotion	
3. Rider to Rider Communication	Establish functions
4-Alumol detector	

Observation and from Lit.Survey	Requirements
1. other helmits are not durable as these	It should not be heavy less than Ity.
2. It has Just connetivity and response. It has snort Alerb and nonfications.	Helmits should be used by all citizens.
3. Modulan design for upgradibility.	Regulatory compliance and standards.
4. Efficient werr unterface.	Environmental considerations.

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1.1 Establish client's objectives
The helmit is made for all citizens of India,
The helmit is made for all citizens of India,
taking into account, safety and well-being of
all endians. It is a step towards new sneart HIRTI.

1.2 Identify constraints
constraints would be regarding power consumption,
data privary and control muhamism.

1.3 Establish functions
Head protection, Award detector and
Various Gps and navigation requirements.

Revised Problem Statement:

The need of hour is a helmil that lakes the responsibility of safety 2 well being of all bhartiyas.

· Helmet should be light, durable, sturdy, comfortable

Specifications:- Should be less than Ity
The helmet should be less than Ity
Should have smart alcohol detection and collision
Provision. The cost of helmil is less than 50001-ouls
provision. The cost of helmil is less than 50001-ouls

· Design a smart belonet powered by an app that is a fusion of technology and safety.