

K J Somaiya College of Engineering
A Constituent College of Somaiya Vidyavihar University
Course: Introduction to Project Based Learning

Template for Problem Statement

Date : 17-10-23

Batch : C4 - group 3

Need Statement: Bag Pack for Students

Roll Number	Name of Student	Role played (Designer / Customer)
11 16010123217	Om Thanage.	Designer
12 16010123218	Omik Acharya	Designer
13 16010123219	Omkar Dinde	Designer
14 16010123220	Omkar Desai	Customer
15 16010123221	Omkar Bhoir.	Customer

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

Questions such as	This question helps the designer to
1. Are there any specific compartments or storage needs?	Identify client's objective
2. Are there any preferred colors or design style you would like to include?	
3. How and where do you plan to distribute the backpacks?	
4. Do you have any preferences for ergonomic features like padded straps, back support or weight distribution?	
5. Is there any other information or specific requests you'd like to add?	

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1. The Bag Pack should be of appropriate size and weight ensuring its not too heavy or large for students.	Identify constraints
2. The Bag should not be too expensive to reach a wider audience.	
3. The Bag should be ergonomic with sufficient padding so that the students do not hurt their backs.	
1. Enough storage for school supplies	Establish functions
2. To allow air to pass through bag to reduce sweat.	
3. Water-resistant and durable.	

Table 2 The information obtained through basic research and Survey

Observation and from Lit.Survey	Requirements
1. Need for proper amount of storage with light weight material used	Light weight material which is cost effective.
2. Comfortable to use	To add features like padded straps, back support or weight distribution.
3. Anti-theft protection	Security
4. Need of a cool and trendy design with bright colours	perfect colour scale

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1.1 Establish client's objectives

The client (a student) needs a bag which is durable, light weight ~~with~~ made with a cool design and bright colours.

1.2 Identify constraints

The bag can not be too heavy or big. It should not be too expensive and it should be ergonomic

1.3 Establish functions

- Enough storage
- Less sweating and free flow of air
- Water-resistant and durable.

Revised Problem Statement:

Design a backpack for student which is durable, lightweight made with a cool design and bright colours. The bag cannot be ~~too~~ too heavy or big or expensive and it should be ergonomic with features like enough storage, comfortable, water-resistant and durable.