**Data and their Security**

**Purpose:**

The purpose of this theme is to analyze user’s data and also providing security to the user’s data to make internet a safer and convenient place for sharing user data.

**Problem Explanation:**

Data is a very critical and important today. Everything people does on the internet are stored in the form of data. We can analyze and create many things using those data. For instance, tech giants use user’s data to provide suggestion for various products according to user preferences like amazon.

As the growth of data is immensely high in internet, their security also becomes much of the concern. We can see the misuse of the data by application and software very trendy these days.

Using organization systems i.e posting inappropriate content on Facebook or Twitter using a company account can lead to lawsuits and loss of business. Similarly, Criminals gaining access to credit card information can lead to financial loss to the owners of the cards or financial institute. These problems contributes to the misuse of user data. There are many problems exists related to data security. Hence, we believe that we can reduce the data misuse and make it more convenient to surf over the internet with no fear of our data being misused.

**Environmental Issues**

**Purpose:** The purpose of this theme is to solve the environmental issues faced by our society in recent time using your familiar tool and techniques.

**Problem Explanation:**

In Nepal, various developmental activities have created a number of environmental problems such as loss of forest, forest degradation, soil erosion, air pollution, water pollution and unmanaged solid-waste.

The problems can fall under various categories in environmental issues like

1. pollution management
2. recycling object utilization
3. Water Sanitation and hygiene and more.

**Transportation issues**

**Purpose**:

This theme focuses on solving transportation-related issues and easing the problems that public and private vehicle users are facing every day.

**Problem Explanation:**

For a developing nation like ours where we have more vehicles than road capacity, it is common to have multiple transportation issues. These problems are not just faced by public vehicle users but also by both public and private vehicle owners and pedestrians. Some of the major problems observed in the area of transportation are:

* Poor quality of service in public vehicles
* Lack of proper regulation for public transportation services
* Violation and poor enforcement of traffic rules
* Too many private vehicles
* Lack of proper parking places and lack of proper management and advertisement for parking places
* Many polluting vehicles still in use
* Poor planning in road construction causing congestion
* Slow DOTM
* Increase in pollution
* Lack of proper sidewalk, zebra crossing, and overhead bridges etc.

**Tech for Education**

**Purpose**:

This theme focuses on encouraging the use of technology in the field of education to change the traditional education system and to make sure that the right for education is available to everyone. It further aims to transform the meaning of education from just reading books to visualizing different aspects of real-life scenarios and implementation of ideas alongside reading books.

**Problem Explanation**

Even in this era of technology, our country Nepal still depends upon the traditional methodologies like rote-learning, exam-oriented, and teacher-centric teaching and learning practices. These practices aren't based on the interest of learners, but rather rely on an outdated curriculum. The next major problem is even this traditional methodology of education isn't reaching everyone. Some of the problems in the field of education that can possibly be eradicated by technology are as follows:

* Poor quality of education
* Education not reaching everyone
* Lack of practicality in education
* Irrelevant evaluation systems
* Lack of encouragement for learners to be problem solvers, analytical thinkers and creative
* Lack of proper educational infrastructures and facilities and rural areas
* Isolated education system; lack of connection of the country's education system to the need of the world

**Tourism 2020**

**Purpose**: The purpose of this theme is to aide in solving the issues related to tourism sector and to also support in the betterment of tourism year 2020 set to be celebrated by Nepal Government.

**Problem Explanation** :

Although Nepal is a culturally and naturally rich country we lack lot of things to promote tourism in our country . Such as lack of information about the places to visit: tourists doesn’t want to visit places without having enough information. In addition overcrowding and environmental pollution in Nepal is also hampering the tourism development in Nepal. Personal Security is another big problem in the development of tourism sector as Nepal is unable to provide security and convenience for the tourist to encourage them to visit more. Similarly there are many problem exists in tourism which can be solved through the use of technology.