**POSHAN VATIKA WEB APP DEVELOPMENT**

**Background**

What is Poshan Vatika?

Posha Vatika means that small piece of land where the people of the house grow vegetables to make sure that all in the family specially children and women should not become victim of mal-nutrition. The main objective is to ensure supply of nutrition through organically home grown vegetables and fruits simultaneously ensuring that the soil must also remain healthy.

What is a Nutrition Garden?

The main objective of introducing the concept of nutri-gardens was to encourage tribal women to cultivate healthy food crops in their backyards. A nutri-garden ensures an inexpensive, regular and handy supply of fresh vegetables,which are basic to nutrition. Green vegetables contain vitamins and minerals, which protect us against diseases. Tribal and rural communities have easy access to all the essential resources like land and water but they lack knowledge about the nutritional value and scientific consumption pattern of the available and easily-cultivable nutritious food products. Hence,nutri-gardens may be regarded as a simple but innovative option to:

* Bridge the gap between the available resources and its utilization in a sustainable manner
* Address issues like malnutrition
* Create additional revenue-generating opportunities for farmer communities,especially women
* Introduce healthy eating practices

School Nutrition Garden

Why is this app required?

**Users**

* **Anganwadi worker**
* **Schools having nutri-garden**
* **Schools giving mid-day meals**
* **Mukhya Sevikas( icds)**
* **Community needing nutrition**
* **Compost generators who can sell their compost**
* **Commercial aggregations and distributors of nutrition**
* **SHG'S as developers of nutrigarden or as consumers of its products**
* **General**

**Proposed URL:**

**poshanvatika.communitygis.net**

**What are features**

1. **Interface for users as per roles**
2. **Visualisation of map with location**
3. **Proximity based search(** 
   1. **given a set location , say a school), find nutrigardens nearby with specific nutrients available on date ( today, or given date), free or at price**
   2. **given a nutrigarden location find the consumers like** 
      1. **SAM children**
      2. **Anemic women**
      3. **Schools giving mid-day meals**
      4. **Etc**
4. **Report of** 
   1. **Planting dates of crops**
   2. **Expected harvesting dates**
   3. **Expected output of specific products**
   4. **Status of stocks**
   5. **Supply history of nutrigardens**
   6. **Reception history of consumers**
   7. **Financial vialibility index of nutrigarden**
   8. **Grade of nutrigarden**

* **Anganwadi worker**
  + Upload Garden Photo.. latlong..Address.. pincode geotagged
* **General user**
  + User can add following layer
    - Road Network
    - geographical hierarchy
    - School and anganwadi
  + Navigate Dashboard
    - CFNS classification.. A1.....C3
    - Later :Diversity ranking or nutrigarden

**Technology used.**

This app is developed keeping in mind that it is used in mobile, users can capture pictures from mobile and upload, so we need to Develop a **Progressive web app**(PWA) that uses features of **HTML5** to use resources of mobile using javascript.

**PWA** provides technology to create webapp that can run on any mobile platform(android and apple) using inbuilt browser resources. The apps can work even when internet is not available.

An Icon of the app can be added to the home screen so that it behaves like native app.

One of the main advantages is to store content offline so users can open apps and use some features while offline.

Using PWA, users can use the following features.

* Geolocation & Device Motion
* Camera access
* External Devices
* Idle Detection
* File System
* Web Share
* Contact Picker