



Case Study – Mobile App for Nirmal Bangla Sanitation Project

Our company information

Branch	Kolkata
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Customer profile

Customer name	Water for People India and Govt. of West Bengal
Division	Govt. of West Bengal
Address	Kolkata

Synopsis

Mission is named as Mission Nirmal Bangla and under the mission the Government of West Bengal endeavors to achieve the larger objective of reduction in child mortality and morbidity, overall mortality and morbidity by reducing chances of water borne and fecal borne diseases due to prevalence of open defecation; reducing the loss of active workdays due to prevalence of diarrheal diseases among the wage seekers; reduce the drop out of children, especially girls due to lack of appropriate toilet facilities in schools; improve overall cleanliness in the villages thereby contributing to improved environmental conditions. Thus the overall goal of the Mission will be to bring about positive changes in the physical quality of life in the villages by rooting cleanliness, hygiene and elimination open defecation. To achieve these larger impacts on the villages and the community, the specific goal of the Mission is to transform all the villages of West Bengal to Open Defecation Free (ODF) villages by 2 October 2019. Developing community managed solid and liquid management systems in the rural areas will also feature as priorities to improve overall cleanliness and environmental sanitation in the villages.

Scope of the Work:

The scope of the work for the Development and designing of the E-Catalogue Application for estimating the Toilet expenses in Android and Windows Desktop Version of your organization shall involve for providing detail functionalities of your esteemed offerings.

However following are the job to execute in the proposed project:

- **Estimation of Toilet:** This option will be facilitate the user to build virtual toilet by selecting the predefined components provided by the WFP in our prescribe format. Type of Components are describe below
 - **Conventional Toilet:**
 - Foundation and Basement Material Selection
 - Super Structure Material Selection
 - Floor Material Selection
 - Sanitary Fittings Material Selection
 - Door Material Selection
 - Roofing Material Selection
 - Disposal System Material Selection
 - Tank type Material Selection
 - Bath type Material Selection
 - **Modular Toilet**
 - Ferro Cement – Circular Toilet
 - Disposal System Material Selection
 - Ferro Cement – Square Toilet
 - Disposal System Material Selection
 - **Eco-San Toilet**
 - Brick / Concrete Toilet
 - Ferro Cement Toilet
 - **Accessible Toilet**
 - Disposal System Material Selection
- **Report**
 - On Screen Estimate Calculation based on the selection of the materials.
 - Facility to generate the following report under the Conventional Toilet
 - 2D Standard Plan (image has to be provided by the WFP)
 - Standard Estimate (details has to be provided by the WFP)
 - Get the selection page with all selection
 - Get Quote in individual name.
- **Database Management (Local)**
 - MS Access database for Windows Desktop Application
 - SQLite for Android Application

Language Offered to the User's: English and Bengali (Screen Level) both

Benefits

- All the households to have access to safe sanitation
- All members of all households use the toilets
- Hand washing at critical times to be practiced universally
- All places of public congregation to have community sanitary complexes
- All households to have their solid & liquid waste management plan in place
- The village surroundings are to be kept clean

Technology

Android Application

- Java
- XML
- Open GL

Windows Desktop Application

- Microsoft VB.Net