Department of Information Technology
BE Project Poster Activity Academic Year 2020-21

Group_ID : ITC09 **PROJECT TITLE: AQUA: SMART WATER SUPPLIERS**

Student Names : Vivek Khade, Sohil Gurung, Ruchir Tayshete Guide: Prof. AJITKUMAR KHACHANE

Abstract.: Online shopping advancements have been so drastic that it has evolved to be a part of our life. Today customer does not drive down to some shop for buying a product but preferably check over the internet for price, offers, reviews and order online. In most of the metro Politian cities water containers are purchased from shops for their basic needs of day today life. The current system working procedure in those cities is where customer calls/drives down to shop to order the water container by providing the shopkeeper a deliverable address and then a delivery person delivers the order to customer's doorstep, as this system works totally offline and has lot of drawbacks. This project proposes an android application for water container ordering and delivery management system, where customer can order over an application by searching the nearby shops which provide the service and make payment online. This proposed system helps in overcoming the major drawbacks of current system.

2. Introduction/Theory.:

When a breakage occurs in the water pipeline, water crisis occurs. Due to the breakage, the water gets wasted and the area where the water supposed to go becomes impossible. Hence those areas suffer from water crisis until the pipeline is not fixed. During the crisis, the people living in those areas are not able to get water directly; hence they need to contact the nearest water tanker supplier who can provide the supplies to those people living in those areas. This traditional approach takes lot of time and efforts to contact to the supplier. And there becomes a good possibility of miscommunication in terms of water requirements, the location and address and contacting the supplier itself becomes a tedious task. This platform will connect the water suppliers to the end consumers with the help of a mobile application. Where users can put their location, contact details and requirements and order the supplies in a very efficient way. The app will have more features apart from this such as supplier's shop location, for the latest updates and so on which we will be looking further in the document. The aim of this project is to provide a user-friendly application for its users.

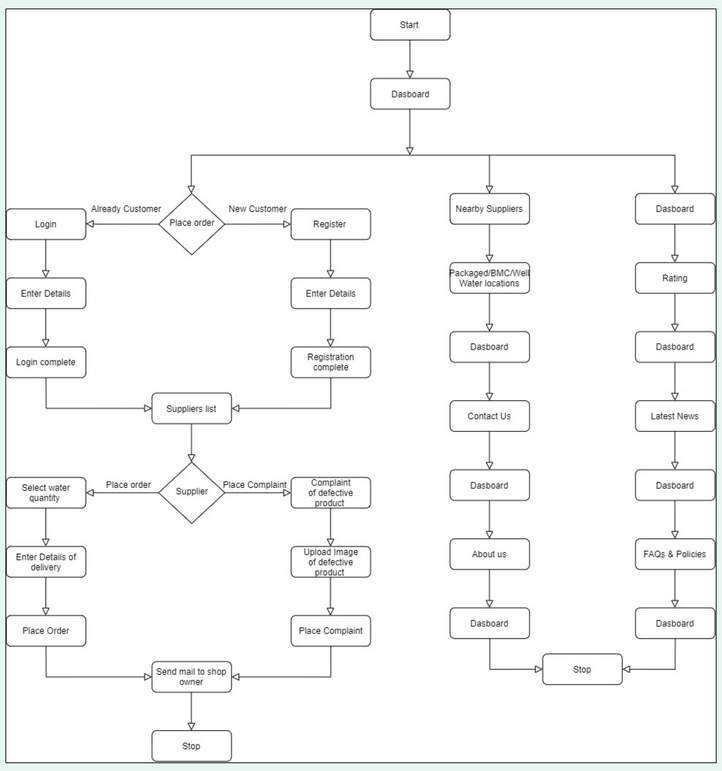
3. Problem Statement.:

Traditionally, to order water supply from a supplier, the user orders it from a phone call. This results in more manual work and good chance of miscommunication while giving and receiving the details like the location, requirements, and the user who ordered the supply. To overcome this problem, we proposed an idea of creating a mobile application through which the user will be able to order the water supply as per their requirements. This leads to less manual work and very less chance of miscommunication due to less interaction with the supplier. With this, the work becomes more efficient, and the supplier can bring the supplies directly to the location. This project aims to develop an android application to solve problems during a water crisis by providing various suppliers location and details and a support system for their query and a notifier by creating a news section on the app. And along with this the objective of our final year project is to show the marked area on the map which will reflect water crisis affected areas. The water ordering system will have an authentication unit which will authenticate users and activate the water ordering system for him/her.

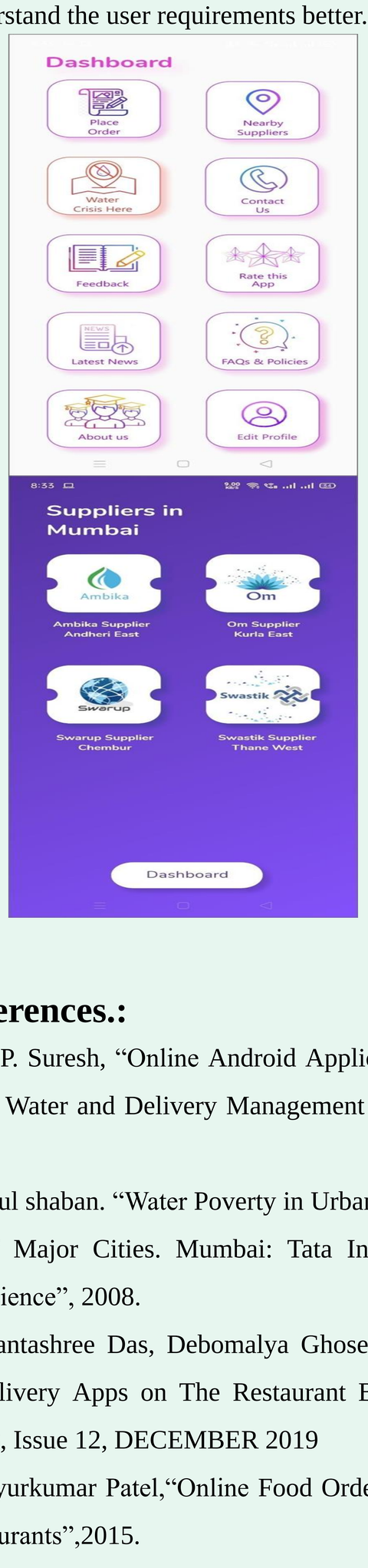
4. Proposed System.:

The proposed system will cater following features.: Online booking system. • Water Supplier's Shop / Office Location. • Water crisis marking on the application. • Recommendation of nearest water supplier to the user. • Water supplier details. • Variety of tanker options to choose from. • Feedback section. • Registration, login and edit profile section. • About us section.

The motive of this android application is to allow the user to provide interactive and easy to use interface through which a user can order water online from different sellers and can get regular updates on water crisis. Below is the flow diagram of proposed system.



Initially the user will log in to the system in order to place a booking for the water supply. The user will be greeted with the user interface from where he /she can place an order. Automatically the current location of the user is fetched in the application or else he / she can change the location by typing the location. Other things which user can do are, he can read the news sections where water supply related news will be posted by the administrator. The user will enter the requirements, then he will be shown the estimated price which he have to pay the supplier at the time of delivery after this, the user will press on place order The request of the user will get pushed to the supplier he chose. The user will also be able to edit his/her profile. Along with this, the user can rate the application and can give feedback though which we can understand the user requirements better.



5. References.:

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