HALLITUS

A GOVERNMENT HELP PLATFORM WITH ONLINE C19 PHARMACEUTICAL SUPPLY

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INTRODUCTION

HALITUS PROVIDES THE FOLLOWING SERVICES:

- An Inbuilt Public Announcement System
- PM Care Fund Direct Donation Mechanism
- **Event Schedule and Management Portal**
- A completely Personalised Dashboard for each user to pay bills
- **Emergency Medical Supply Trading and Distribution System**



- The world has been at halt since the outbreak of COVID19 and so is India.
- The coronavirus lockdown has brought difficulties for both working and non working citizens.
- The government has put in efforts to uplift and support the country from providing medical kits, shutting down educational institutions to creating isolation wards and working in spite of the lockdown, these efforts should not go in vain.
- Spread of fake news, false facts, anxiety and hatred through social media platforms, media, WhatsApp groups et cetera leads to panic among the public.
- Reliable source of information is required to control the apprehension and agitation of the public.

- Advancements in digital
 payments technology has led to
 more secure online payment
 systems.
- However, people are still insecure to trust online payments.

- An important accomplishment during a health emergency like this COVID-19 Pandemic is for the country to recover from its wounds.
- It is of national urgency to identify possible COVID19 suspects and help them recover in isolation to avoid the spread and hence also containing the disease.
- Adequate number of medical kits need to reach the country, on time.
- These kits need to be sent across various hospitals depending on the need of a particular state.

- People are not aware of many events that the Government of India organises.
- Citizens can not only participate but can also volunteer for them.

- India is still a developing yet poverty stricken country.
- The government therefore has a responsibility to provide food and shelter to many.
- This requires large sums of donations.

LITERATURE REVIEW

WEBSITES WITH COVID19 HIGHLIGHTS AND OTHER EVENTS



india.gov.in
national portal of india



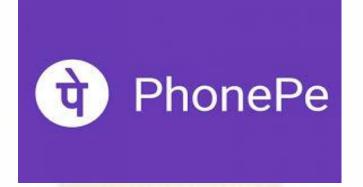


APPLICATIONS THAT PROVIDE PAYMENT PORTALS FOR CITIZENS TO PAY THEIR BILLS ONLINE. HOWEVER, THESE ARE PRIVATE APPLICATIONS (EXCLUDING BHIM) HENCE CANNOT ESTABLISH TRUST BETWEEN THE COMMON PEOPLE AND THE GOVERNMENT WITH TRANSPARENCY.











'THE PRIME MINISTER'S CITIZEN
ASSISTANCE AND RELIEF IN EMERGENCY
SITUATION FUND' ENCOURAGES CITIZENS
TO DONATE MONEY DURING EMERGENCY
SITUATION LIKE THE COVID19 PANDEMIC

THE AAROGYA SETU APPLICATION WARNS
CITIZENS WHEN A COVID19 SUSPECT IS IN
THEIR VICINITY AND PROVIDES PRECAUTIONS
TO AVOID CONTRACTING THE DISEASE





E-COMMERCE MEDICAL EQUIPMENT SUPPLIER PLATFORMS THAT PROVIDE COVID19 MEDICAL SUPPLIES







SYSTEM REQUIREMENTS

NETBEANS: Runs on any operating system with a Java Virtual Machine(JVM). Can also use any other IDE. The minimum hardware configuration for NetBeans-

APACHE DERBY- The apache derby database can run if there is a JVM supported.

- FOR WINDOWS- Windows 7 version OS, 800MHz
 Intel Pentium III or equivalent processor, 512MB
 memory and 750 MB of free disk space
- FOR UBUNTU- 9.10 version, 800MHz Intel Pentium
 III or equivalent processor, 512 MB memory and
 650 MB of free disk space
- FOR MAC OS- 10.7 Intel version, Dual-Core Intel processor, 2 GB memory and 650 MB of free disk space.

PROPOSED SYSTEM

Hallitus is a one-stop solution to solve problems of various subsystems:

- We use a JAVA DERBY database to store and verify/authenticate the details of citizens and hospitals, who can register themselves through separate dashboards.
- The database helps establish a secure network.
- The GUI has been built using NetBeans IDE 8.2 to create the user interface(Front End Application Software) of the dashboard.
- A backend database, Apache Derby/Java Derby RDBMS (Relational Database Management System) runs in the backend to process the citizens' credentials. (Embedded JDBC driver: helps us embed derby in the java application)
- Everything that runs in Java in the JVM is converted to byte code which is not easy to exploit or modify hence making the language safer.

1. PM Care Fund Direct Donation Mechanism:

- PM Narendra Modi has started accepting funds from foreign countries to fight the
 catastrophic event but might not be enough to support medical necessities and food and
 shelter requirements to the unemployed, daily wage workers and the destitute.
- Ergo, it is fundamental to collect funds within the nation by individuals who are in favourable conditions to do so. This can be made via the HALLITUS platform.

2. Event Schedule and Management Portal:

- The government of India has organised various events for encouraging people into events like
 - Yoga and Swachh Bharat Abhiyan
 - Women Centered events to encourage participation from their end
 - SMART INDIA HACKATHON that has encouraged many young minds to help create technologically advanced, innovative and feasible solutions that could change the lifestyle and customs of the nation and help progress DIGITAL INDIA.
- Registered citizens can enroll themselves in events that are scheduled by the government.

3. The Inbuilt Public Announcement System:

- The public will have access to accurate, reliable and verified information about the terrifying state the coronavirus has put the nation in irrespective of registration in Hallitus.
- There have been over 31.8 lakh confirmed cases and a total of 2.2 lakhs deaths worldwide.
- Even after the lockdown, India has confirmed cases of over 33 thousand and more than 1 thousand deaths.
- Many people are still not aware of the seriousness of the situation.
- We are already in one of the greatest economic crisis we have ever faced.
- It is important to unite to avoid spreading hatred and hoax news of this magnitude.

4. A completely Personalised Dashboard for each user to pay bills with their information:

- Registered citizens can pay their bills online without the need to step out of the house during the lockdown.
- This establishes and improves the trust between the public and the government.
- Moreover, it is safer compared to any offline payment methods due to its transparency that reduces the risk of corruption.
- The payment portal also allows the user to print the receipt.

5. Emergency Medical Supply Trading and Distribution System:

- Verified certified hospitals can get access to online Pharmaceutical Supply for medical diagnosis of Covid-19.
- Procuring medical supplies hasn't been a pleasing site supported by the health sector during this current worldwide health emergency as stated by many worried doctors.
- Even during this situation, there is bribery in medical-related services and counterfeit medical products marketing.
- This would not only increase the spread of risks of this disease but also show us truly how people's values have deteriorated.
- Leveraging technologies and treating it as an ally to increase responsibility and answerability would assist the government in this long battle.
- It is an opportunity for young minds to create digital transformations towards public services and help establish a safer environment for citizens from cybersecurity attacks especially since many people are working remotely and millions of students are receiving education through online platforms that could risk their privacy.

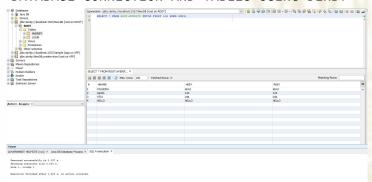
RESULTS/PERFORMANCE ANALYSIS

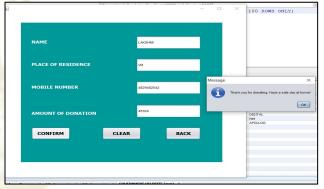


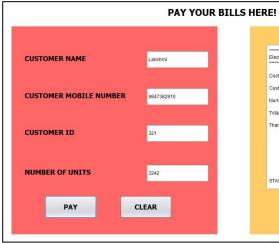




DATABASE CONNECTION AND TABLES USING DERBY

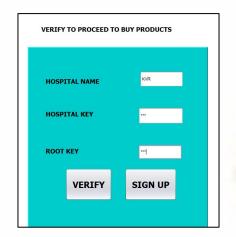


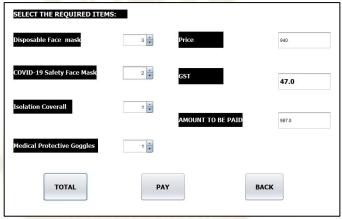


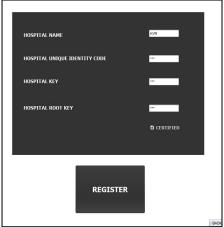












We can ensure a connection between the Java application and the derby database using:

```
java.sql.Connection con =

DriverManager.getConnection("jdbc:derby:C:\\netbeans\\Derby-10.14\\Databasename","DBusername","D

Bpassword");
```

We can pass a SQL statement using:

```
java.sql.Statement stmt=con.createStatement();
```

String DBQuery="Select * from ROOT.CITIZENS";

We also have to catch a few exceptions such as

import java.io.IOException;

import java.sql.SQLException;

import java.net.URISyntaxException; for the running of the code.

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CONCLUSION

The pandemic still remains an unprecedented challenge but it is a responsibility that all the citizens of India need to accept as Unity is the only strategy that can work at present. A guiding principle between the individuals of a country and its government is transparency. It must be put up to use to accelerate this fight towards the disease and to expedite it and rebuild a society everyone can trust. During this testing time for the whole nation, we must ensure to leave behind religious and communal hatred and collaborate to stay home and stay safe while being aware of the matter in hand. It is important to reduce stigma to reduce COVID stress that has been prevailing among people. In a hunger emergency like this, people must open handedly make generous contributions and extend all their help. The Government is on its duty to help them by providing as much support as possible but they need further help. This system would help individuals protect themselves and people around them.

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