A

Project Report On

The Village System

Submitted to

Department of Computer Engineering

Cusrow Wadia Institute of Technology,

Pune-411001

By:-

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2.Aishwarya Narender Singh

3.Rohan Suresh Bedage

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Project Report On

The Village System

Under the Guidance of

Prof. R. P. Shete
Prof. K. Jakotiya

Submitted by

1. Saurabh Prakash Nale

2. Aishwarya Narender Singh

3. Rohan Suresh Bedage

Department of Computer Engineering

Cusrow Wadia Institute of Technology

Pune-411001

(2020-2021)

CERTIFICATE

This is to certify that the below mentioned third year Diploma students have carried out the necessary project work on "The Village System" in department of Computer Engineering, Cusrow Wadia Institute of Technology, Pune-1.They have completed this project work under my guidance in satisfactory manner in May 2021 of third year Diploma.

1. Saurabh Prakash Nale
2. Aishwarya Narender Singh
3. Rohan Suresh Bedage

Computer Engineering students have successfully completed project on "The Village System " towards the fulfilment of their Diploma in Computer Engineering in the academic year 2020-20201. The performance of each of these students during the course was good.

Date:

Prof. R.P.Shete   Prof. A. A. Jambhale   Prof. V. R. Rao
Guide   H.O.D Computer Dept.   Principle

ACKNOWLEDGEMENT

We have a great pleasure in presenting this project report on "The Village System" and to express our deep regards towards those who have offered their valuable time and guidance in our hour of need because when any work is to be successfully completed it should be supported and guided by proper persons. For completing this project we really got inspiration and guidance from many people.

We would like to express our sincere and whole hearted thanks to guide Prof.R.P.Shete ,Prof.K.Jakotiya without their support it was unable to express our ideas in this project . We also thank Mr. Jambhale , Head of Department for his support and encouragement.

We are also glad to express our gratitude and thanks to parents and friends who directly or indirectly supported the completion of this project.

Saurabh Prakash Nale	194086
Aishwarya Narender Singh	194088
Rohan Suresh Bedage	194093

ABSTRACT

This project deals with the study and development of the village as a Digital/Smart village. We define digital village as a bundle of services which are delivered to its residents and businesses in an effective and efficient manner. The basic concept of digital village is to collect community efforts and strength of people from various streams and integrate it with information technology to provide benefits to the rural community.

It also makes the village self-sufficient in respect of their needs and focuses on improved resource use efficiency, local self-governance, access to assure basic amenities and responsible individual and community behaviour to build a happy society. We are making digital village by taking smart decisions using smart technologies and services

TABLE OF CONTENTS

1. Introduction:

Village is the main criteria for the development of a nation, so develop the village in such a way that is self-dependent in providing the services, employment & well connected to the rest of the world & new technology that is DIGITAL VILLAGE. The digital village provides facilities for sustainable family relationships without disturbing the lifestyle of different generations. So, it is necessary to design and develop a digital village with urbanization and modernization. People migrate from one place to another for different facilities such as education, employment, and affinity of people towards the city. Digital village is that modern energy access can act as a catalyst of development in education, health, clean water, sanitation, and environmental sustainability.

Development of a nation at any phase is linked with technology and when it happens there is advancement in science and innovation. Now-a-days our government also gives strong focus on digital villages. So, our project is also a small step towards making India a developed nation to the progress of village and smarten the rural development using ICT (Information and communication technology) solution to achieve self-sustainability.

 Digital Village and would become the focal point for providing information, social, e-learning and e-governance services to villages. This can become the springboard for rapid economic growth in the rural areas.

2. Presently Available System:

This kind of system is not presently available. It's our own idea to build a system for the people of the village for helping the people as well as the Gram Panchayat. This system will provide various facilities for which villagers have to do it manually. But by the creation of this system the work will be semi - automatic and not will be hectic.

This system will provide villagers the facility of online payment of bills like Water tax and Property tax, it will also provide medical information, it will have 24*7 help desk for the villagers if they have any query or issue and so on. In so many ways our system will be helpful for the villagers and for the Gram Panchayat.

3. Need of Such System:

At present, one of the major challenges in India is growing population and rapid urbanization. This urban growth to certain expansion is unavoidable, as the economic pursuits and aspirations of the population do change and expand. This needs to be inverted and suitably managed through a balance between rural and urban quality of life through the system.

A "Digital Village" will furnish long-term social and economic welfare action for village communities which will empower and enhance involvement in local governance processes, encourage entrepreneurship and build more lively communities.

At the same time, a "Digital Village" will ensure good facilities, payment facility, notifications alerts, job facility, help desk facility, medical online facility, government schemes, chat bot facility, online post box status, online documentation download facility, etc.

4.Detailed Problem Statement:

The Village System is very useful to villagers/users. The aim of this project is to provide a quick, immediate and easy way to help villagers. It can provide special advantages to villagers. Providing the information regarding various government schemes, news related to the village. Pre-notification of the occurrence of the event to the villagers (For ex. Power-cut of electricity, etc.). Advertising the Tourists attraction places, as in return it will help development of villagers economically. A digital village is not only bringing Internet connection to the rural lands, but will also provide support to the Gram Panchayat and villagers.

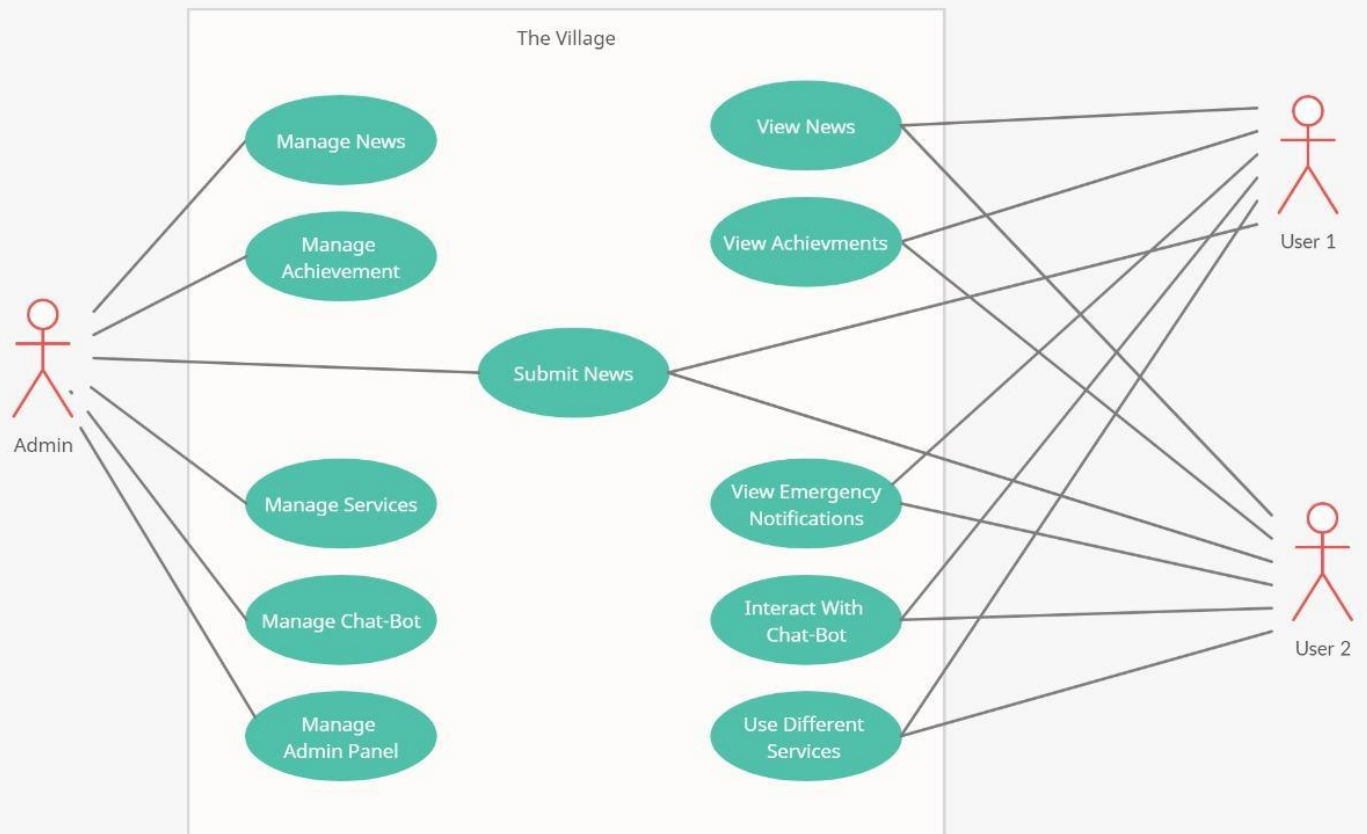# 5. Software and Hardware Requirements:

5.1 Software Requirements :

- Operating System : Windows 8/10

- Web Browser : Google/Mozilla

- Application Server : XAMPP

- Database : Excel sheet/MySQL Database

5.2 Hardware Requirements :

- Processor : Intel i3 4th Generation or Above

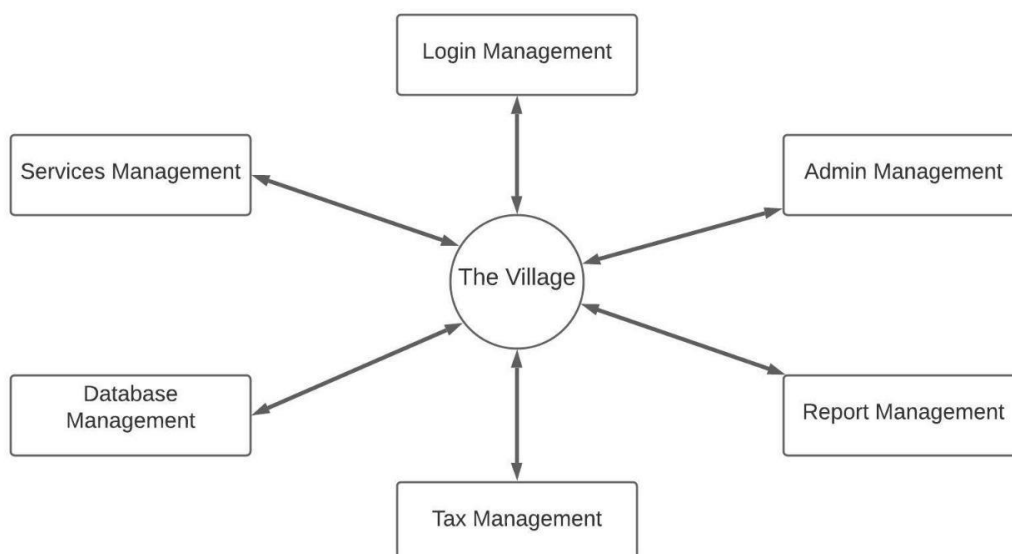- Speed : 2.3 GHz or Above

- RAM : 4 GB minimum

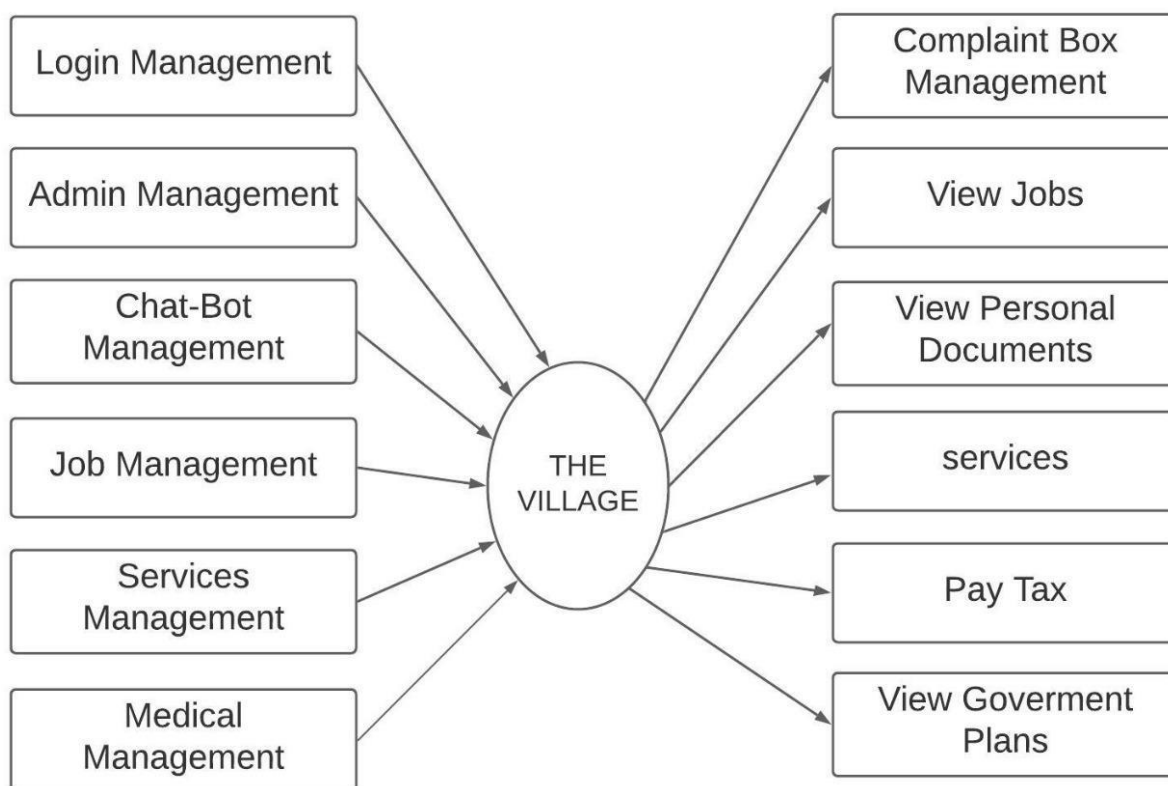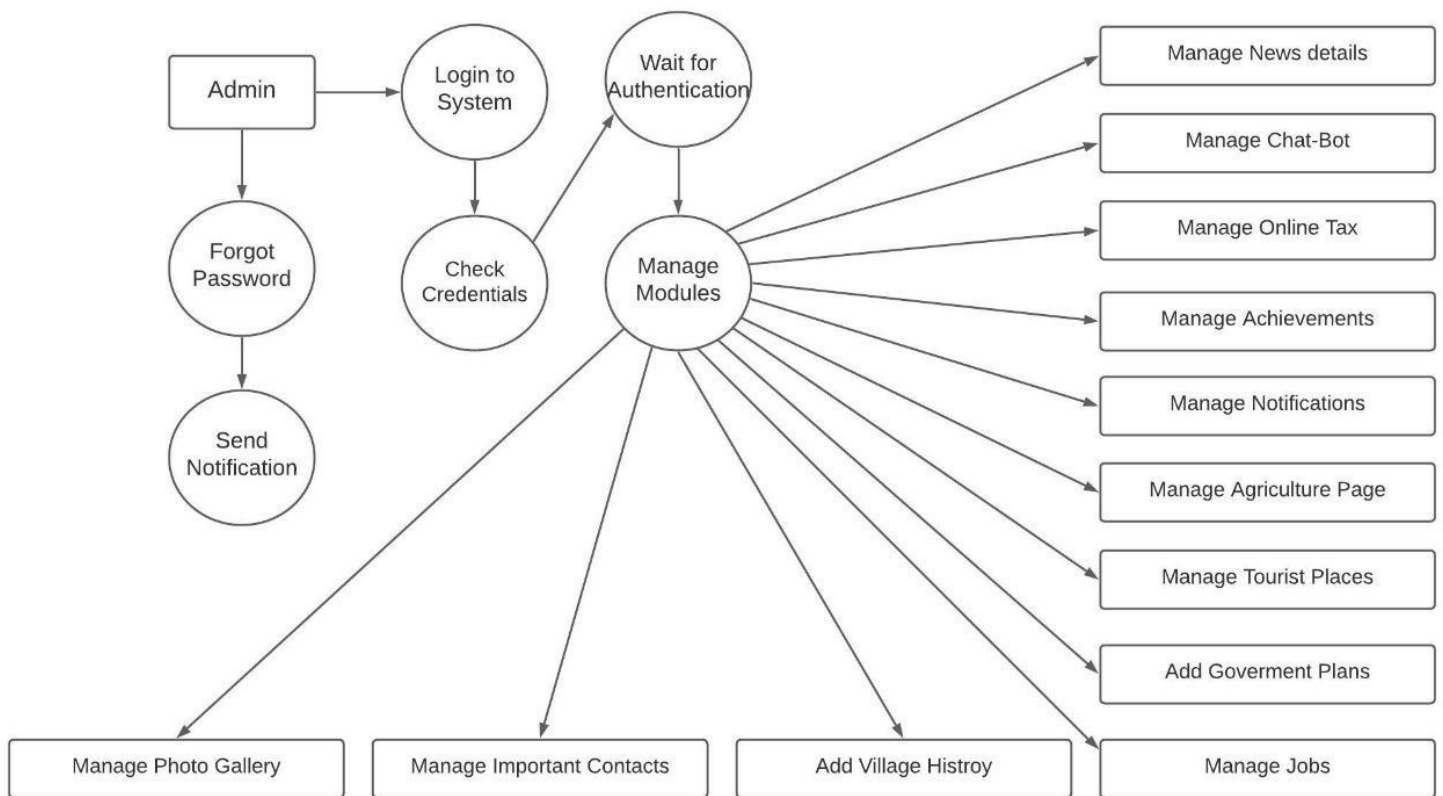- Hard Drive : 1 TB

6.System Design :

6.1 Use Case Diagram

The Village

Manage News

Manage Achievement

Submit News

Manage Services

Manage Chat-Bot

Manage Admin Panel

View News

View Achievments

View Emergency Notifications

Interact With Chat-Bot

Use Different Services

Admin

User 1

User 2

\

6.2 DFD Diagrams:

DFD DIAGRAM - LEVEL 0

DFD DIAGRAM – LEVEL 1

DFD DIAGRAM LEVEL 2

7.Salient Features

The features of Village System include:-

1. Modern, easy to use interface

2. Personalised Dashboard

3. Pay Online Taxes

4. Convenient file management

5. Simple and intuitive text editor

6. Notifications

7. Job Selection

8. Customisable site design and layout

9. Mass enrolment

10. Supports open standards

11. Post Box system

12. Manage user roles and permissions
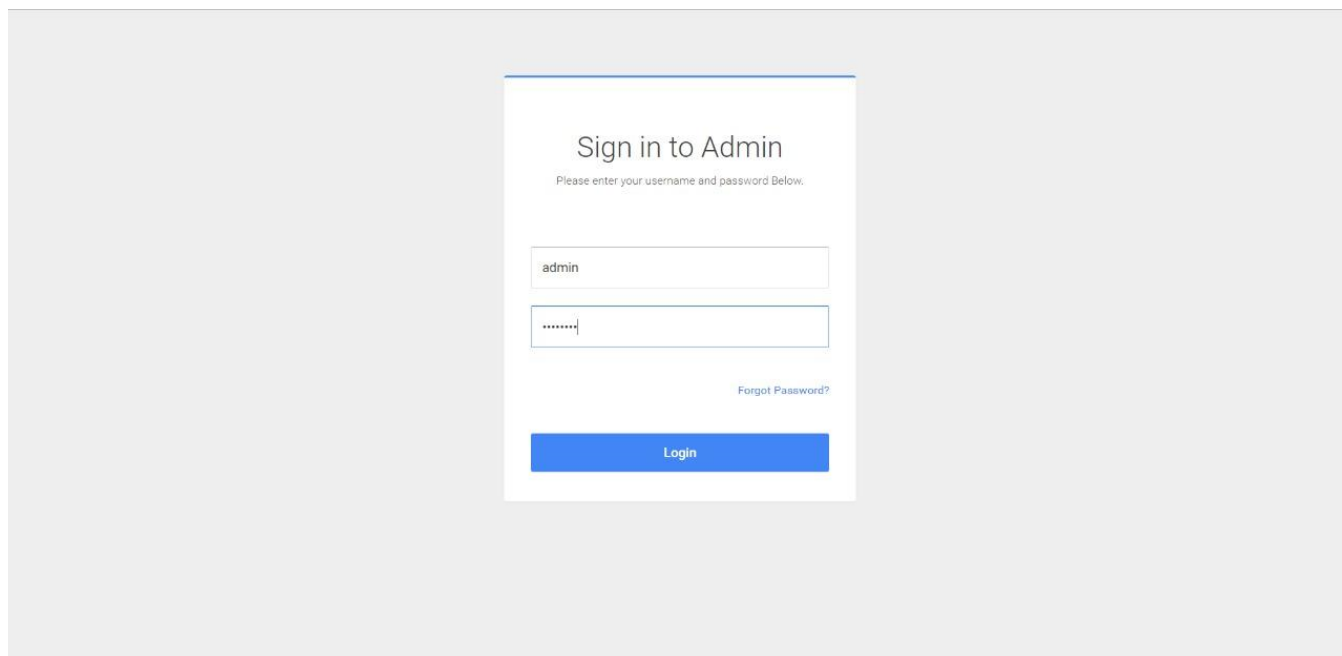
13. High interoperability
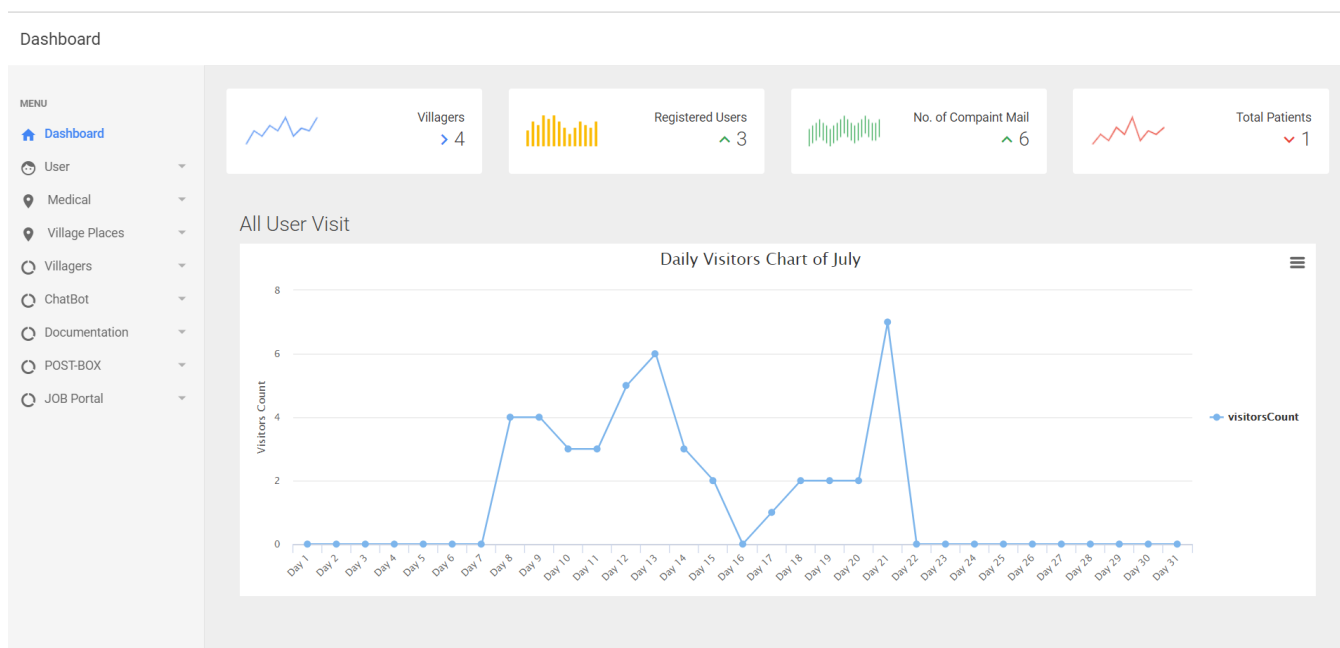
8.Application Preview :

Fig 1:Admin Login page

Fig 2: Dashboard

Admin Panel

MENU
- Dashboard
- User
- Medical
- Village Places
- Villagers
- ChatBot
- Documentation
- POST-BOX

Upload Users To Database
Choose Users Excel to upload to database

Choose File | No file chosen   **IMPORT**

Export Functions

Show 6 entries

Copy | CSV | Excel | PDF | Print

Sr.no	User Name	Firstname Name	Lastname Name	watertax	Contact No	Age	Action
1	AWW	Anuj	Anuj	anuj.lpu1@gmail.com	8285703354	20	View n Edit
2	Rohan	Rohan	Bedage	abc@gmail.com	8329234445	20	View n Edit
3	sau	RAY	Bedagee	sau@gmail.com	9856667592	12	View n Edit

Showing 1 to 3 of 3 entries

Previous | 1 | Next

Fig 3: Users Table

Admin Panel

MENU
- Dashboard
- User
- Medical
- Village Places
- Villagers
- ChatBot
- Documentation
- POST-BOX

Mail Service
Service description

- Inbox — 6
- Pending — 6
- Closed — 0

📥 Inbox (6 new messages)

Search mail...

With selected ▾ | Archive | Span | Delete | Order by ▾   1-50 of 253 ‹ ›

8	abc@gmail.com	2021-07-21 00:00:00
	Water supply issue.	
7	abc@gmail.com	2021-07-21 00:00:00
	Enquiry related to lost docs.	
6	abc@gmail.com	2021-07-21 00:00:00
	Enquiry of docs.	
5	abc@gmail.com	2021-07-21 00:00:00
	Issue related to Tax.	
4	abc@gmail.com	2021-07-21 00:00:00
	Issue related to services.	
3	abc@gmail.com	2021-07-21 00:00:00
	Issue related to power supply.	

Fig 4: Contact Mail Support

Admin Panel

MENU

🏠 Dashboard
😊 User ▾
📍 Medical ▾
📍 Village Places ▾
◯ Villagers ▾
◯ ChatBot ▾
◯ Documentation ▾
◯ POST-BOX ▾

Manage Access Log

Export Functions

Show [6 ▾] entries

[Copy] [CSV] [Excel] [PDF] [Print]

#User id ↑↓	User Name ↑↓	Email ↑↓	Login date | Login Time ↑↓	IP ↑↓	Mac id ↑↓
3	Anuj kumar	anuj.lpu1@gmail.com	2021/06/14 | 08:35:41am	::1	84-2A-FD-D2-1B-7
3	Anuj kumar	anuj.lpu1@gmail.com	2021/06/14 | 09:55:18pm	::1	84-2A-FD-D2-1B-7
3	Anuj kumar	anuj.lpu1@gmail.com	2021/06/19 | 01:02:29am	::1	84-2A-FD-D2-1B-7
3	Anuj kumar	anuj.lpu1@gmail.com	2021/06/19 | 01:05:30am	::1	84-2A-FD-D2-1B-7
3	Anuj kumar	anuj.lpu1@gmail.com	2021/07/09 | 01:44:43am	::1	84-2A-FD-D2-1B-7
9	Anuj	demo@gmail.com	2021/06/14 | 08:34:33am	::1	84-2A-FD-D2-1B-7

Showing 1 to 6 of 62 entries

[Previous] [1] [2] [...] [11] [Next]

Fig 5: User Activity Log

Admin Panel

MENU

🏠 Dashboard
😊 User ▾
📍 Medical ▾
📍 Village Places ▾
◯ Villagers ▾
◯ ChatBot ▾
◯ Documentation ▾
◯ POST-BOX ▾

Hospital Info

Home / Tables / Hospital Info

Export Functions

Show [6 ▾] entries

hospital No ↑↓	Hospital Name ↑↓	AvailableNormalBeds ↑↓	TotalNormalBeds ↑↓	AvailableVentilatorBeds ↑↓	TotalVentilatorBeds ↑↓	AdmitDate ↑↓	Action ↑↓
1	Siddhi Vinayak , Hospital	40	121	25	25	2021-07-08 01:52:04	Edit hospital info
2	PHCB Hospital	60	210	23	29	2021-07-08 18:46:41	Edit hospital info
3	Sahyadri Hospital	12	70	27	60	2021-07-08 21:32:27	Edit hospital info
4	Pothadar Clinic	20	110	12	60	2021-07-10 20:37:37	Edit hospital info
5	SAURABH HOSPITAL	12	120	78	80	2021-07-14 16:37:15	Edit hospital info

Showing 1 to 5 of 5 entries

[Previous] [1] [Next]

Fig 6: Hospital Info

Admin Panel

MENU

- 🏠 Dashboard
- 👤 User ⌄
- 📍 Medical ⌄
- 📍 Village Places ⌄
- ◯ Villagers ⌄
- ◯ ChatBot ⌄
- ◯ Documentation ⌄
- ◯ POST-BOX ⌄

Upload Villagers To Database
Choose Villagers Excel to upload to database

Choose File   No file chosen   **IMPORT**

Export Functions   ⬇ ⋮

Show [6 ⬍] entries   Copy CSV Excel PDF Print

Villager No.	FirstName	LastName	Gender	Age	Literacy	PopulationCategory	Profession	Action
1	rohan	Bedage	female	9	Literate	Children	Engineer	Edit info
2	ronnie	here	female	25	Literate	Adults	Lawyer	Edit info
3	rohan	Bedage	female	122	Illiterate	Older Adults	Engineer	Edit info
4	sau	oo	female	25	Illiterate	Adults	Engineer	Edit info

Showing 1 to 4 of 4 entries   Previous **1** Next

Fig 7: Villagers Database

Village ChatBot

MENU

- 🏠 Dashboard
- 👤 User ⌄
- 📍 Medical ⌄
- 📍 Village Places ⌄
- ◯ Villagers ⌄
- ◯ ChatBot ⌄
- ◯ Documentation ⌄
- ◯ POST-BOX ⌄
- ◯ JOB Portal ⌄

Village ChatBot System Information

Introduction Message

Hi, Welcome to the Village !

No Result Message

I am sorry. I don't get this !

Update

Fig 8: Village Chat-Bot

Admin Panel

Manage places

Fig 9: Places Management

Admin Panel

Fig 10: Patient Data

Admin Panel

MENU

🏠 Dashboard

🕐 User ▾

📍 Medical ▾

📍 Village Places ▾

🔄 Villagers ▾

🔄 ChatBot ▾

🔄 Documentation ▾

🔄 POST-BOX ▾

Add Jobs

| Job Name | | jobcatagory ▾ |

[   ]

Choose File   No file chosen   **Add Job**

Export Functions

Show [6 ▾] entries

Copy CSV Excel PDF Print

INDEX ↑↓	NAME ↑↓	DESCRIPTION	↑↓	IMAGE ↑↓	Delete ↑↓
1	Dairy Farm Supervisor	Dairy Farm Supervisor This position works with the owners, dairy manager and other members of the management team to manage dairy herd health, feeding and treating of animals,…			delete

Showing 1 to 1 of 1 entries

Previous 1 Next

Fig 11: Add Jobs

THE VILLAGE   ⚙ 🐧

My account   Settings

User information

Username
Rohan

Email address
abc@gmail.com

First name
Rohan

Last name
Bedage

Select Gender
Male

Age
20

Contact information

Address
Viman Nager , Nagar road ,Pune

Phone No.
8329234445

Update

My Account   Message

Rohan Bedage

Rohan Bedage

THE VILLAGE SYSTEM

Viman Nager , Nagar road ,Pune

| Pay Your Tax | Complaint Mail |
| Documentation | Village ChatBot |

Fig 12: User Profile

Fig 13: Online Tax Portal

Fig 14: Printable Receipt Generation
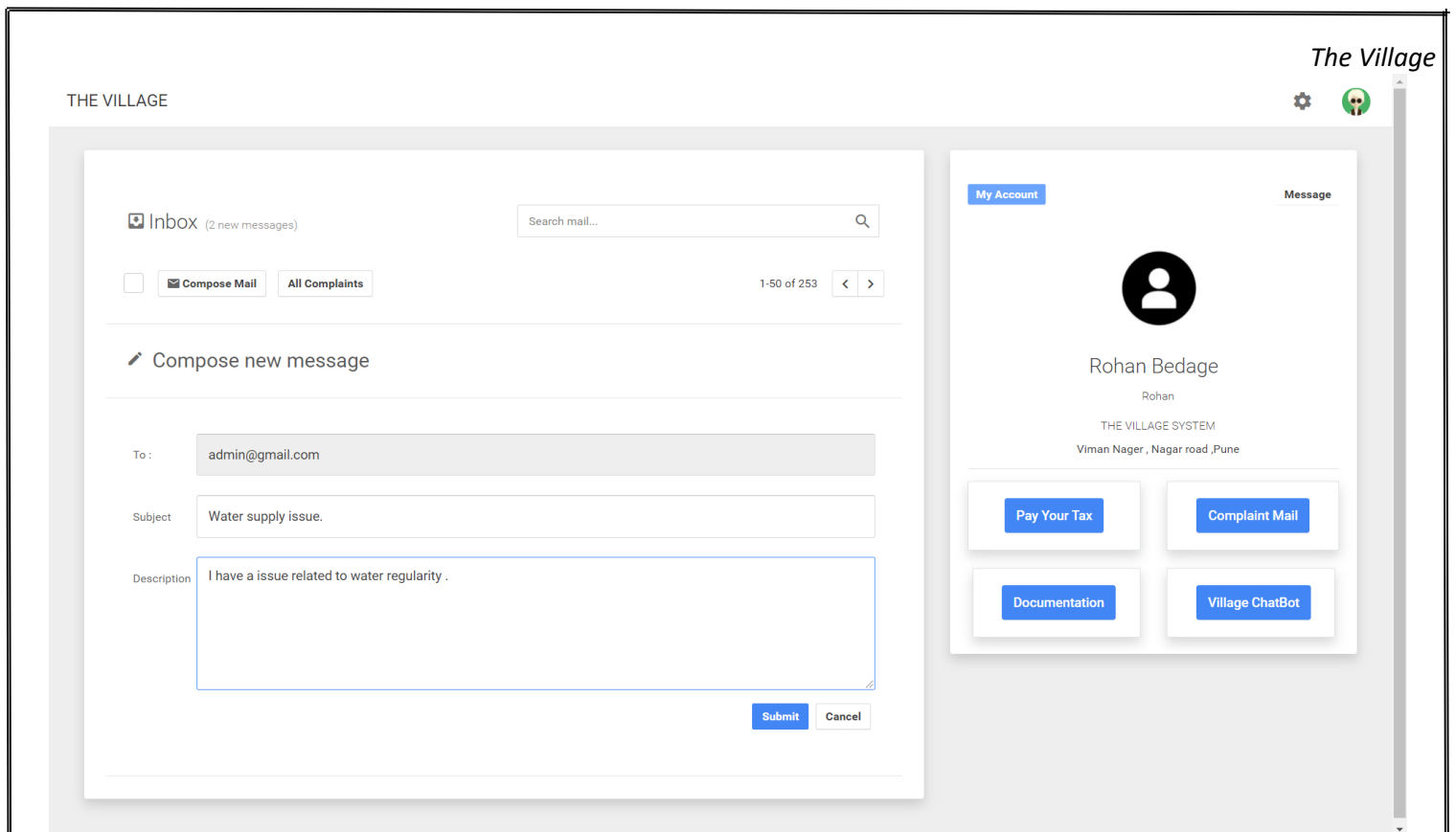
Fig 15: Complaint Box

Fig 16: Inbox

THE VILLAGE ⚙ 🙂

Inbox (2 new messages)

Search mail... 🔍

☐ ✉ Compose Mail   All Complaints   1-50 of 253 ‹ ›

⭐ Issue related to power supply.   ↩ 🖨 🗑

abc@gmail.com to admin@gmail.com ▾   2021-07-21 22:06:08

Hello,

            Issue related to power supply.

admin@gmail.com to You

My Account   Message

Rohan,20

Rohan Bedage

THE VILLAGE SYSTEM

Viman Nager , Nagar road ,Pune

Pay Your Tax   Complaint Mail

Documentation   Village ChatBot
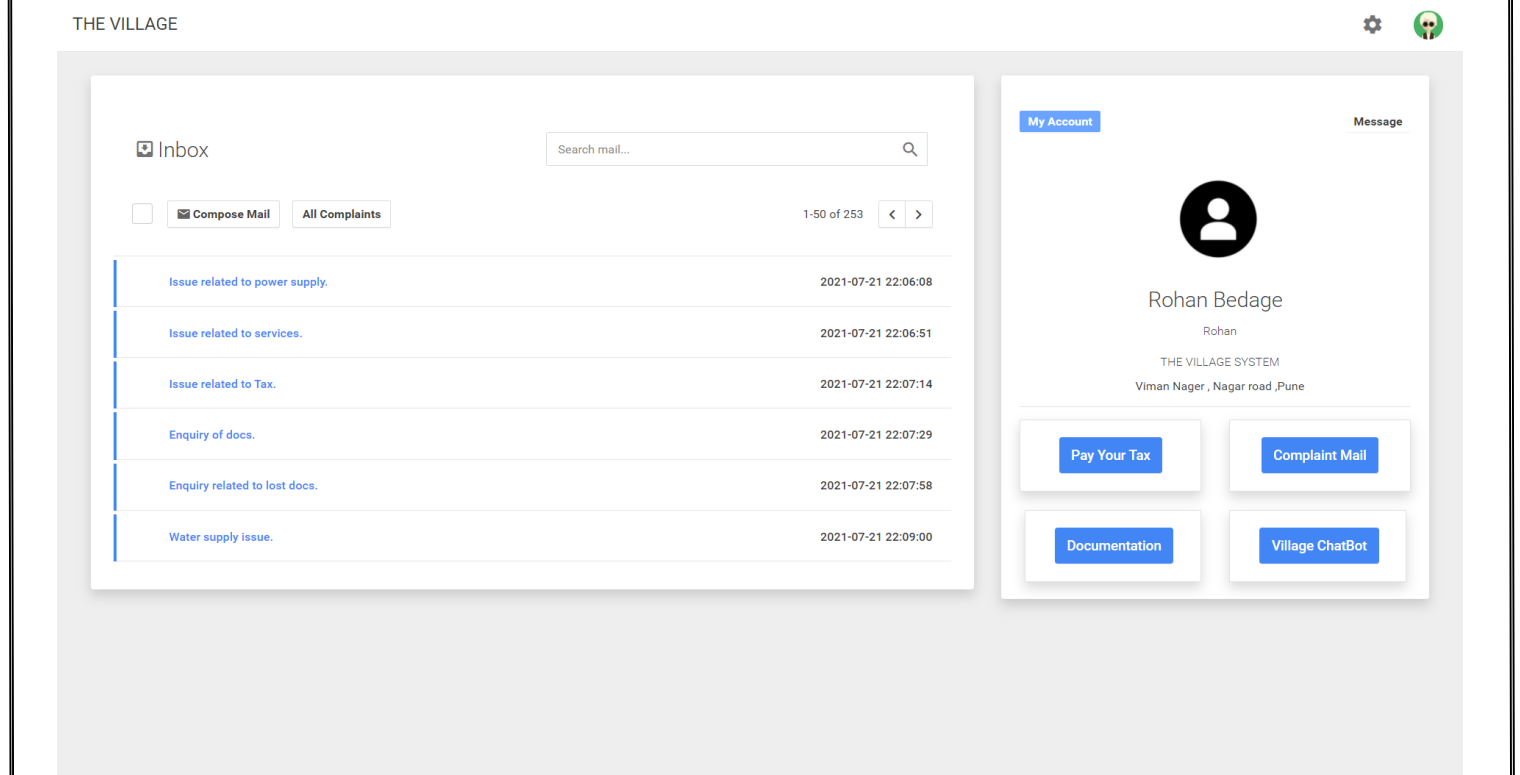
Fig 17: Complaint Details

THE VILLAGE ⚙ 🙂

VILLAGE ChatBot   Settings

🔔 **Attention!**
This is the Village ChatbBot System , Here You can ask Village related Queries Only.   ×

📷 Hi, Welcome to the Village !

Type Message ...   Send Reply

My Account   Message

Village ChatBot

This is a most Advanced System. The Purpose of system is to Solve Your Issues Very Quickly !

Pay Your Tax   Complaint Mail

Documentation   Village ChatBot
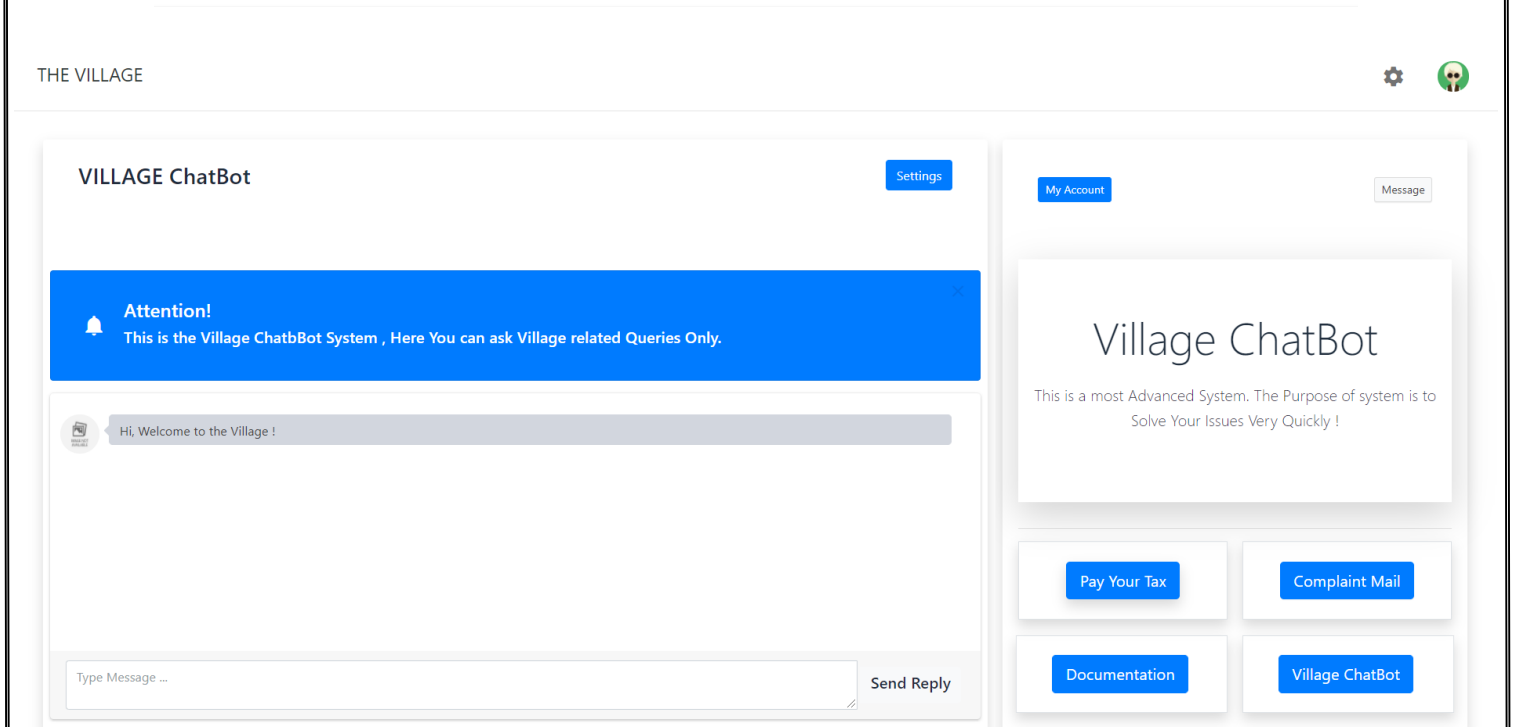
Fig 18: Village Chat-Bot

Documentation Section

Enter Your Mobile Number

987456123

Select Type of Document

Select Document

Submit

Download Your 'cast' Document

CLICK HERE

My account

Settings

My Account

Message

Rohan Bedage

Rohan Bedage

THE VILLAGE SYSTEM

Viman Nager , Nagar road ,Pune

Pay Your Tax

Complaint Mail

Documentation

Village ChatBot

Fig 19: User Documents

THE VILLAGE

Village Job List   **Applied Job List**

Dairy Farm Supervisor

2 Comments   February 20, 2017

Dairy Farm Supervisor This position works with the owners, dairy manager and other members of the management team to manage dairy herd health, feeding and treating of animals,...

Read More

Categories

Dairy(03)

Fig 20: Job Portal

THE VILLAGE ⚙ 🐦

Village Job List   **Applied Job List**

JOB NAME : DAIRY FARM SUPERVISOR

Job Name : Dairy Farm Supervisor

Job Description : Dairy Farm Supervisor This position works with the owners, dairy manager and other members of the management team to manage dairy herd health, feeding and treating of animals,....

Apply For This Job

Fig 21: View Jobs

THE VILLAGE ⚙ 🐦

Village Job List   **Applied Job List**

VERIFICATION SECTION : THIS IS THE FINAL CONFIRMATION FOR YOUR SELECTED JOB

As a part of the Job Selection process you have to fill the details below. You are applying for '**Dairy Farm Supervisor**' job . After that you have to click on Apply button for final confirmaion . Remember you have only one chance to apply for perticular job , if applied twicely for same job you will be rejected without confirmation.*

Applicants Name	Email Address	Mobile Number
Rohan S. Bedage	abc@gmail.com	08329234445

Education	Address(Current Area Required*)	Resume (Upload Only : .jpg or .pdf file)
B.Farmacy	Jaylakshmi Niwas „ Near , Shri Chhatrapati	Choose File resume.pdf

submit

Fig 22:Apply Jobs

THE VILLAGE   ⚙ 🧑

Village Job List   **Applied Job List**

Applied Job History

If you are hired for this Job then Your Application Status Turns into 'Accepted'.

If you Selected ('Accepted') Then We will Contact You on your registerd contact Number

No.	Job Name	Status of Your Application
1	Dairy Farm Supervisor	Pending

Fig 23: Job History

THE VILLAGE   ⚙ 🧑

POST BOX

Here You Can Check Your Post Letter Status

[•••••••••]   **Submit**

#	Recieved From	Recieved Date	Recived Time
#	ICICI BANK	08:38:02pm	11/07/21

Fig 24: Post Box

THE VILLAGE ⚙ 🧑

Market Prices

Date : (21/07/21)

Get Print

#	शेतीमाल	आवक	किमान	कमाल
1	Rohan	14	Rs. 500/-	Rs. 1200/-
2	aishwarya	18230	Rs. 300/-	Rs. 700/-
3	कांदापात	8350	Rs. 700/-	Rs. 1500/-
4	पालक	21050	Rs. 300/-	Rs. 700/-
5	मुळा	1550	Rs. 500/-	Rs. 1000/-
6	चवळी पाला	1800	Rs. 300/-	Rs. 400/-
7	करडई	282	Rs. 300/-	Rs. 500/-

Fig 25: Market Prices

THE VILLAGE ⚙ 🧑

Village Places

Hospital
Medicals
School
Grocery store
Petrol Pump
Workspaces
Goverment Offices

Goverment Hospital

PHCD HOSPITAL

Sahyadri Hospital

Fig 26: Village Places

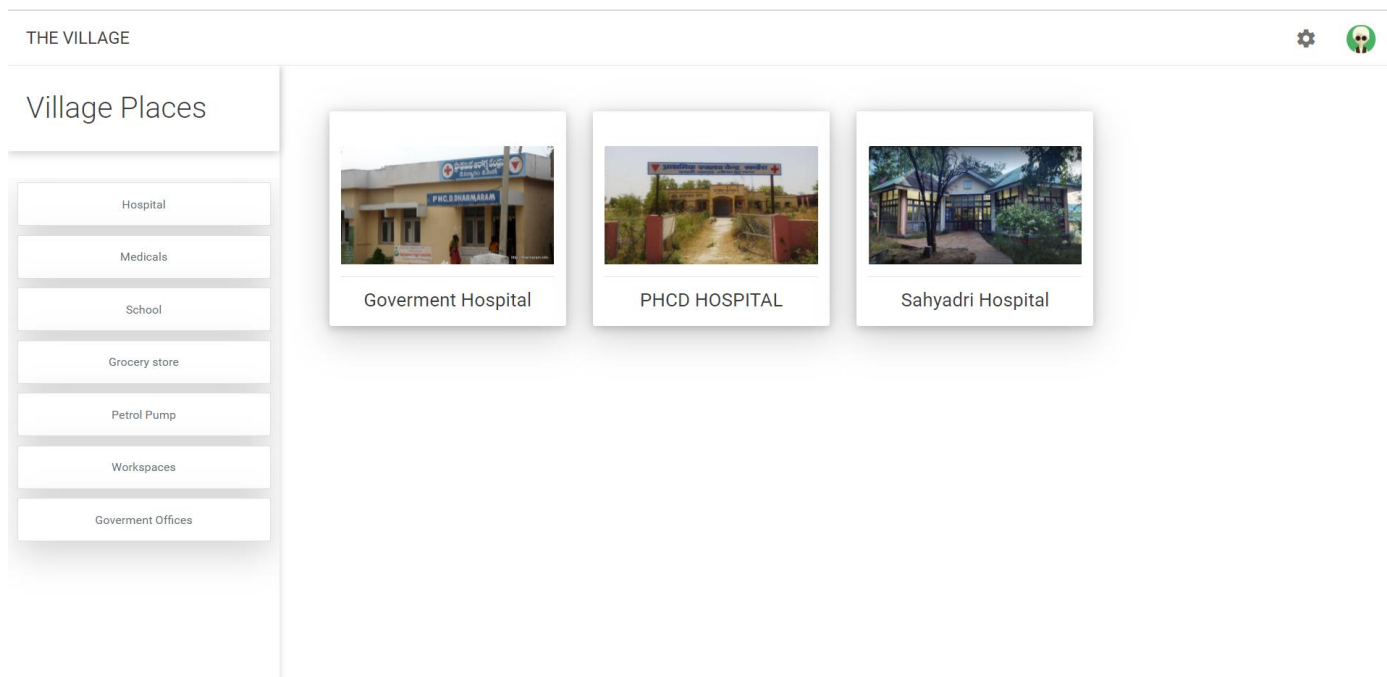THE VILLAGE ⚙ 🐱

Village Health

This is a modified jumbotron that occupies the entire horizontal space of its parent.

Village Corona Cases Detailed Information

Corona Patient Graph

Active Patients	Recovered	Dead Patients
1	2	1

25.0%   25.0%

50.0%

Fig 27: Village Health

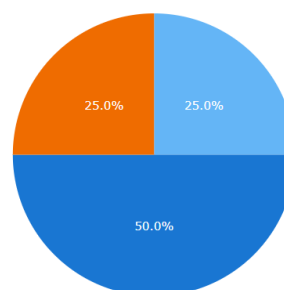THE VILLAGE ⚙ 🐱

Available Hospital Bed's Status

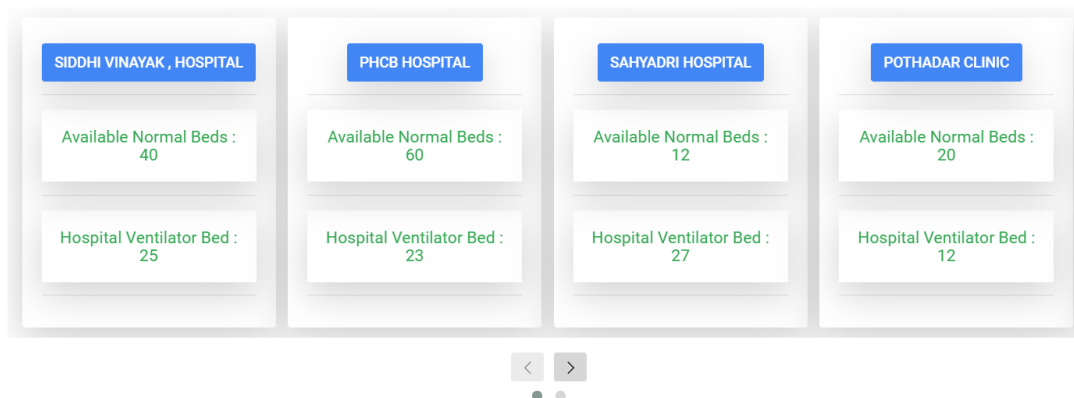Below are the detailed information About perticular Hospital Bed Status , swipe right to check more Hospitals.

SIDDHI VINAYAK , HOSPITAL	PHCB HOSPITAL	SAHYADRI HOSPITAL	POTHADAR CLINIC
Available Normal Beds : 40	Available Normal Beds : 60	Available Normal Beds : 12	Available Normal Beds : 20
Hospital Ventilator Bed : 25	Hospital Ventilator Bed : 23	Hospital Ventilator Bed : 27	Hospital Ventilator Bed : 12

< >

Fig 28: Available Beds

‹ ›
● ○

Vaccination Centres

Here is the list of hospital where you can get Corona Vaccine.

(Get Pre-Appointment on calling their Contact number.)*

#	Hospital Name	Avalable vaccines	Hospital Contact no
1	Goverment Hospital	100	9834895736
2	Siddhivinayak Hospital	50	8975646456
3	Sahyadri hospital	74	9078654534

Fig 29: Available Vaccine centre

Home   Places   Hotels

Mahabaleshwar

"Mahabaleshwar is a small town and a municipal council in Satara district in the Indian state of Maharashtra. It is a place of pilgrimage for Hindus because the Krishna river has its origins here. The British colonial rulers developed the town as a hill station, and served as the summer capital of Bombay Presidency during the British Raj."

Geography

Mahabaleshwar is located on the mountainous Sahyadri range of the Western ghats that run North to south along western coast of India. The coordinates of the town are 17.9237°N 73.6586°E.Mahabaleshwar is a vast plateau measuring 150 km2 (58 sq mi), bound by valleys on all sides. It reaches a height of 1,439 m (4,721 ft) at its highest peak above sea level, known as Wilson/Sunrise Point The town is about 120 km (75 mi) southwest of Pune and 285 km (177 mi) from Mumbai,. Mahabaleshwar comprises three villages: Malcolm Peth, Old "Kshetra" Mahabaleshwar and part of the Shindola village. Mahabaleshwar region is the source of the Krishna River that flows across Maharashtra, Karnataka, Telangana and Andhra Pradesh. The legendary source of the river is a spout from the mouth of a statue of a cow in the ancient temple of Mahadev in Old Mahabaleshwar.Legend has it that Krishna is Lord Vishnu himself as a result of a curse on the trimurti by Savitri. Also, its tributaries Venna and Koyna are said to be Lord Shiva and Lord Brahma themselves. An interesting thing to notice is that 3 other rivers come out from the cow's mouth apart from Krishna and they all travel some distance before merging into Krishna which flows East towards the Bay of Bengal.These rivers are the Koyna, Venna (Veni) and Gayatri. The Savitri river flows Westward via Mahad to the Arabian Sea. Climate of the area is suitable for cultivation of strawberries, Mahabaleshwar strawberry contributes to about 85 percent of the total strawberry production in the country.It also received the geographical indication (GI) tag in 2010.

Demography

As of 2011 India census, Mahabaleshwar had a population of 12,737. Males constituted 55% of the population and females 45%. Mahabaleshwar had an average literacy rate of 78%, higher than the national average of 74.04%: male literacy was 84%, and female literacy was 71%. In Mahabaleshwar, 11% of the population was at that time under 6 years of age.90% of population speaks Marathi language.

Fig 30: Tourist Places

Home Places Hotels

Tourists Places

For Your Guidence There is Guiders Community : Click here to know More About Guiders

This is a modified jumbotron that occupies the entire horizontal space of its parent.

Pratapgad Fort

Pratapgad literally 'Valour Fort' is a large mountain fort located in Satara district, in the Western Indian state of Maharashtra. The fort's historical significance is due to the Battle of Pratapgad in 1659. The fort is now a popular tourist destination.
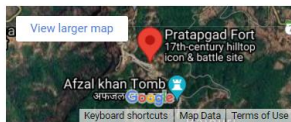
Mapro Garden

Mapro Gardens is a garden park in the hill station of Panchgani, Maharashtra, India, situated close to Mahabaleshwar, known for their strawberry produce, and a popular tourist destination. It is located in Mahableshwar and developed by Mapro.
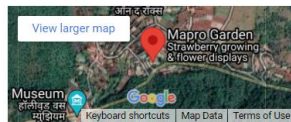
Elephants Head

The cliffs at this view point have resemblance to that of an elephant 's head/trunk and hence the view point is called elephant point. The valleys, edges of mountains, the vegetation, the greenery create some spectacular views here.
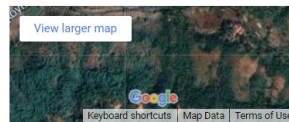
Venna Lake

Venna Lake is a scenic manmade lake in Mahabaleshwar. The lake offers rowboats, and paddleboats ride to the visitors and hence is usually very crowded.The lake is spread over an area of 28 acres .
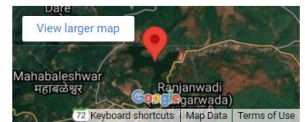
Fig 31: Tourist Places

9. Future Prospect :

The future prospect of the Project is to support techno economic viability of digital technology, projects for productive applications in village area livelihoods; standardize the technology packages for future applications; create awareness and capacity building activities on Information Technology systems.

This project aims that all citizens of India have payment systems that are online or cashless. Moreover, citizens are digitally literate, and digital resources are available in Indian languages. It will enable the public sector or government bodies to be digitally active, and thus citizens can download their government documents.

Under this project, certain villages will be transformed into digitally active, cashless villages, allowing rural residents to conduct most of their daily activities entirely online. The primary goal of the Digital Village initiative is to make towns more digitally engaged. Under this plan, the work of many rural institutes may be handled entirely via the internet; every rural resident would become digitally literate.

10. References

Links:

1. https://www.wikipedia.org/
2. https://stackoverflow.com/
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5. India .All states, Districts,Villages,Schools,Colleges,Maps,Pin Codes of India (onefivenine.com)