Major Project Synopsis

On

**HEAL HELPING HAND**

*Submitted in partial fulfilment of the degree of*

**Bachelor Of Technology**

In

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Under the guidance of

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**ABSTRACT**

Heal Helping Hand is a consumer-oriented website that provides information on how well hospitals provide recommended care to their patients. This information can help consumers make informed decisions about health care. Health Test Compare allows consumers to select hospitals, dispensary, path labs and directly compare performance measure and cost factor. This gives a unified platform to a common man to choose the best of all the options available around him. The usefulness of this website does not end here the patient can now have their reports online on their email and even on the website. The support to doctors and employees of hospitals is also provided. The proper procedure of authentication will be provided for patients, doctors, employees, administrator (website). The feedback of patients for particular doctors and patients will be maintained alongside. Graphical representation is provided on each panel of the website so as to have the comparison ratios of each vital particulars of the modules. Inferences on the basis of stats will show general trends in the healthcare sector.

# Existing Features of Heal Helping Hand:

1. Interactive User Interface.
2. Graphical Interpretation of each comparison notion on each panel
3. Integrated, Granular Schema.
4. Excellent Attachment Management.
5. Robust stable secured MySQL (XAMPP) server.
6. Doctor Profile having his specialization, meeting time, etc
7. Grid of Recently added hospitals.
8. Hospital Profile for mapping address and phone numbers.
9. Tabular Representation Of Hospital on Administrative panel.
10. Tabular Representation Of Patients of each Doctor of respective hospital.
11. Graphical Interpretation Of Reports for ease of understanding for patients.
12. Simple and Effective Report Generation.
13. Save Reports to Internal Storage.
14. Full administrative privileges in the Admin Panel.
15. All new entries and modifications are approved by the Admin before the changes are visible across the website.

# Trademark HHH Facilities:

1. Numerous authentications for all panels
2. QR Code for Doctor Panel from app available exclusively to Doctors registered on HHH.
3. OTP for Patient Panel to log in. Patients will receive a OTP which when confirmed with the DB will allow patient to log in.
4. Speech Recognition For Hospital Panel accessed through their Android phones.
5. Super-Admin authentication using Secure USB. Only the pen drive can allow the Super Admin access and make changes to the system, permissions.

# Latest Inclusions

1. User Interface advancement of existing Android apps.
2. Inferences from the graphs obtained of patients.
3. One Time Password (OTP) send to the phone (instead of Email).
4. Donation Camps with Poster making. Facility to advertise and reach the masses.
5. Special LEARN app for children with autism spectrum disorders, Down's syndrome, Angelman's Syndrome, Cerebral Palsy, and other speech disabilities.
6. **L**anguage **E**ducation for **A**utistics with **R**esponsive sound and **N**otes with simple sentence formations, speech using basic English vocabulary.

**MODULES**

* **Front End**

1. Test Details

This module covers the name of the Health treatment as required by a normal man along with their department. The divisions are like Radiology, Hormonal, Blood etc.

2.Comparative Prices

The list of different vendors providing the services and their prices will now be shown comparatively.

3.Filters On Health Test Providers

Hospitals are filtered on three bases: locality, alphabetically, availability on self referenced time.

4.Tests Offered

An exhaustive list of tests done at that venue with their exclusive prices and special combos will be available. Vendors that tie up with Govt organisations such as the CGHS, etc will also show their respective offers.

5. Donation Camps

Hospitals can provide information in the form of an event for health and donation camps which will be converted into a poster and be made visible on the front panel for all visitors to see, resulting in free publicity for the target audience.

* **Hospital Panel**

1.Login Module by Speech Recognition

Employees confirmed their presence by voice. Special app is created for this. This ensures the high level security of the data preserved by the employees.

2.Uploading Of Reports

The reports are uploaded as soon as they are prepared. The uploaded reports can then easily be available to patients by logging in their accounts.

3.Profile Alterations

The amendments are made by employees in the profile of respective hospitals, concerned doctors. These all are automatically updates to the attached panels through database.

4. Change Hospital Details

The geolocations can be updated, the video tour can be added or deleted, tests can be added and test prices are updated in a dynamic fashion.

* **Patient Panel**

1.Login Module by OTP

Patients confirmed their presence by correctly login by one time password (OTP) received on phone as SMS. This ensures the high level security of the data preserved by the patients.

2. Peer-to-Peer free health network

Patients can give feedback and ratings for treatment and other factors for hospitals. It empowers individuals, communities and global underserved populations to better manage their health through sharing of health experiences, information, and support.

3.Data Representation

Some of the tools for swift overviews. Interpretable, colour coded, interactive graphs make sense of large data.

4. Drawing Conclusions from Graphs

Finding out patterns and conclusions from a large amount of patient data can show us trends in healthcare industry which will equip us to lay emphasis on those maladies first.

5. Easy report generation

Export to PDF and Excel at the touch of a button makes it a very hassle-free report access experience.

* **Doctor Panel**

1. Login Module by QR Code

Doctors are authenticated their presence by a QR code in an app. QR code (Quick Response Code) is the trademark for a type of matrix barcode (or two-dimensional barcode). This ensures the high level security of the data preserved by the doctors.

2. Data Interpretation

Progress Bar for Doctor's rating, Donut Chart according to positivity obtained on website, Area Chart for Consolidated Weekly Reports, etc are some of the tools for swift overviews. Interpretable, colour coded, interactive graphs make sense of large data.

3. Doctor Profile

The profile for a doctor has his name, profile photo, dedicated dashboard, specialised skills, timings of different attending venues, experience details will be specified clearly.

4. Chat Feature

The doctor can very easily chat with the patients who want a consultation. He can review the reports online, as attached by the patient. The chat is not saved anywhere so the privacy is very well maintained.

## Admin Panel

1.Hospital Details

This module will provide the details of the hospital. The address, contact details, doctors available. It will also allow the Admin to Add, Edit or Delete the hospital information.

2.Health Vendor Details

Health checkups available at places other than a hospital will be detailed here. A list of all vendors, dispensaries and Gurudwaras providing free services will be listed here. The location, photograph will be available. The locations closest to the user can be selected by him for comparison.

3. Geo-location & 3D Tour

The actual location for that place will be made available dynamically through Maps. A very unique, personalised virtual tour would be at the hands of the user so that they can have a feel of the location and quality of services provided with their own eyes.

4.Tests possible

Vendors that tie up with Govt organisations such as the CGHS, etc will also show their respective offers.

5. Secure USB Authentication

Only the pen drive can allow the Superadmin access and make changes to the system, permissions.

# LEARN App

**L**anguage **E**ducation for **A**utistics with **R**esponsive sound and **N**otes for children with autism or other speech defects can interact with the surroundings using the simple Android app with straight buttons.

1. Prompts users with questions to expand their sentences

2. Intelligently predicts words

3. Assembles a map of pictures into a perfectly grammatical sentence

4. Simple settings for making folder size, text size, voice, and folders customizable.

5. Pre programmed with 5 category folders; Quick, Core Words, Getting Started, Basic (1), and Advanced (2)

6. Brightly colour coded for interactive interface.

7. Alert Button to bring attention to the user.

8. Mistake Button – for user self-correction.

**4. REQUIREMENTS**

**System Requirements**

**Hardware Requirements for Website**

On Developer Side:

Processor : Dual core or above.

RAM : 4GB.

Hard disk : 40GB or above.

Monitor : 15’’ LCD or CRT Monitor or above.

Keyboard : Standard windows keyboard

On Client Side

Device : Computers having a browser

**Software Requirements for Website**

MySQL

XAMPP/WAMPP/LAMP

Notepad++/Adobe Dreamweaver

**5. REFERENCES**

1. http://www.w3schools.com/php/php\_ref\_array.asp

2. http://phpbuddy.com/category.php

3. http://www.webintersect.com/questions/171/biometric-log-in-by-php--and-mysql

4.http://stackoverflow.com/questions/28805697/integrating-biometric-fingerprint-to-php-code

5.http://www.griaulebiometrics.com/en-us/forum/read-fingerprints-using-php-codes-and-store-it-server

6. http://freecode.com/projects/phpvoice

7. http://www.labnol.org/software/add-speech-recognition-to-website/19989/

8. http://php.net/manual/en/function.mysql-connect.php

9.http://manual.phpdoc.org/HTMLSmartyConverter/HandS/phpDocumentor/tutorial

10. http://www.htmlgoodies.com/beyond/php/article.php

11. https://www.utexas.edu/learn/php/example1.shtml

12. http://webcheatsheet.com/php/connect\_mysql\_database.php

13. http://www.tutorialspoint.com/php/php\_sending\_emails.htm

14. http://www.voicephp.com/howitworks.html

15. https://www.quora.com/Whats-the-best-way-to-learn-PHP-1

16. http://php.net/manual/en/getting-started.php

17. http://www.medtronic.com/patients/fainting/device/