**DOCTOR-PATIENT PORTAL**

**ABSTRACT**

A doctor patient handling, managing system is proposed, that helps doctors to keep a medical progress on their patients and patients to upload their vitals and view the comments of the doctor. The system allows doctors to manage the patient’s vitals on a weekly or monthly basis. Patients are allowed to follow the doctors of their choice and the doctors are reserved in their name. Each time a patient consults a doctor, the medical entries are stored in the database. Next time a patient logs in the entire medical history is available as and when needed. At the same time a doctor may view patient’s medical history even before the patient visits him and can comment as well as diagnose the patient. This allows for an automated patient doctor handling system through an online interface.

**INTRODUCTION**

### ABOUT THE PROJECT:

Doctor-Patient portal is a Web based application that provides the doctors and patients a platform to interact with each other. The services availed are 24/7, this particular portal helps the patient choose a wide range of doctors. Doctors provide weekly and monthly reviews online without having to give them appointments on every single visit. The data is stored in manual registers and it indeed takes a lot of time and energy to handle all the hospital details. Hence, here the patient can upload the prescription and vitals check, so the doctor can analyse the same and suggest. The doctor and patient do not have to meet in any hospital, wait, waste time or paper. Everything is done through the application making it extremely convenient

# IMPLEMENTATION

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| **Patient (Web)** |
| Registration \ Login   * Patient signs-up by filling basic details * Creates password by following the link in the registration/invite email * Reset password by following forgot password process * Agrees to the Terms & Conditions to use this application |
| Dashboard   * View own Vital details. * Patient can select the period range to the see vitals’ trend * Patient can view the Doctor’s comments on their Vital performance * Patient can download their vitals’ report in pdf or image format |
| Manage Doctors   * Patient can set/change their Primary Doctors from the empanelled doctors list * Patient can view Doctor’s profile (Basic details, Clinic address and contact details) * Patient can provide access to their desired Primary doctors from the list and approves them to view their vitals. * Patient can get associated to one or many doctors to view their vitals details |
| View Notifications  - Patient can view the notification sent by Doctors post their vitals analysis |
| View & Edit Profile& Device   * Add / Edit Personal Details * Add / Edit Health & past history details * Add / Edit Device associated details |
| My Reports  - Vitals’ report and download |
| Manage Group/ Family  - Patient can add / Edit their family members to get associated with one device |
| Manual Vitals Data Feed & Prescription   * Patient can upload different types of document (Prescription, Medical Report &Misc/Others) * Patient can share the uploaded documents with their Primary and other associated Doctors based on their preference * Delete any uploaded document * Patient can manually feed the vitals data (if patient has used any other device or non-associated device to record the   vitals) to this system and assign date and timestamp to that vital data. |

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| **Doctor (Web)** |
| Registration \ Login   * Doctor signs-up by filling basic details * Creates password by following the link in the registration/invite email * Reset password by following forgot password process * Agrees to the Terms & Conditions to use this application |
| Dashboard   * Doctor views on the vitals’ notifications (breached thresholds) categorized on certain rules, for various patients. * Doctor also views the count of primary patients and no. of request which have come from patient for this Doctor for Primary relationship. Also sees the count of all non-primary patients associated with this doctor. * Doctor can select any patient’s name and view their vitals which have breached the thresholds limits. |
| Manage Patients   * Doctor can view all the pending patients list who have asked for Primary association relationship. * Doctor can accept/reject all such request and updates the status. * Doctor can view all the Patients who has Primary relationship and view their latest and historical vitals details. * Doctor can personalize the Vitals thresholds limits for the respective patient. * Doctor can download the patient’s vitals’ details in pdf format. * Doctor can provide the comments on the patient vitals reports. * Doctor can view the documents uploaded by patients |
| View Notifications   * Doctor views on the vitals’ notifications (breached thresholds) categorized on certain rules, for various patients. * Once Doctor views the patient’s vitals details (breached and non-breached), and if any threshold breach flag is set, then flag is reset to non-breached. |
| Configure Vital thresholds  - Each Doctor can define their standard vitals’ threshold limits and may apply generically to all their patients. And  their personalize the thresholds based on Patient’s medical history or prevailing health conditions. |
| View & Edit Profile   * Doctor updates basic profile details * Doctor selects the role type as Doctor, then fills up Professional details and upload the supporting documents covering education and professional and submits for verifications. * Upon confirmation or approval from SS Admin, Doctor can view all features of a Doctor role in the application.   Till then Doctor only sees few features which are generic and for patient role. |
| Configure self branding attributes  - Primary doctors can personalize their branding styles/themes/colors for their patients. Once personalized the  app settings, all their patients will see the Doctor’s branding settings. |
| View Patient Profile  - Doctor can view their associated patient’s profile. |

# CONCLUSION

This Doctor-patient portal allows the interaction between doctors and patients convenient. The patient can choose from a wide range of doctors, the best and most knowledgeable doctor to cater to their needs. The respective doctor can accept the patients requests, review their prescriptions and vitals thereby providing them with frequent updates. The doctor accomplishes in keeping a check on his/her patient periodically and avoids unnecessary time spent on visits by the patient. The Application is easy to use by both the doctor and the patient and is one of the best ways to bridge the gap between them.

The web application meets the current requirements of the CEO. Also the software is designed in a manner that it allows further changes and implementations. It is strong enough to withstand regressive yearly operations under conditions where the database is maintained and cleared over a certain time of span. The implementation of the web application in the organization will considerably reduce time and energy spent on patients in visiting the doctors.

It is ascertained that the data is obtained accurately. The simplicity and friendliness are the benefits of this project. The project provides smart plan on developing a full-fledged application satisfying the user necessities. The system is extremely versatile. This code features an easily accessible screen that allows the user to use without inconvenience. Validation checks induced have greatly reduced errors while sending queries. Provisions have been made to upgrade the software. The application has been tested and has provided a successful result. Hence the software has proved to work efficiently. The software will surely continue to prove it efficiency on further upgrades as well.