Project Idea

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| **Name of the Project** | Wholesome Life (HMA) |
| **Objective** | A complete web and android based health management application (HMA) that helps society for continuity of care, continuity of information to optimize their healthcare and deoptimize their stress. From the recent pandemic we have learned that health is very important . we can see that nowadays every hospital is busy with patients so people should wait for making appointments with the doctor even at their busy day.so we are here with a health management application which is a website/online platform where online appointments can be made with doctors and get their consultation.In addithion we are including Disease prediction,nearby hospitals list,Diet Tracker,Blood/Organ Donation information. |
| **Users of Application** | \*Patients,  \*Health care providers (Doctors, Ambulance service staff, Medicine shop vendors etc.)  \*Organizations Volunteers (blood, organ doners). |
| **Functional Requirements** | Application or website will have  i. External interface should be present so that the outside user is able to use the system.  ii. Undertaking various registration  iii. Storing user data. "Legal and regulatory requirements need to be followed  iv. It should be in a simple language and non-ambiguous in nature to make itself user friendly and easy to navigate  v. The search will produce accurate results.  vi. Provide the correct location.  vii. Authorization to different users (Login with google and its verification)  viii. Accurate disease prediction.  ix. The chatbot should produce suggestion for every user and for every query without logging of the user. |
| **Non-Functional Requirements** | i. Secure access to confidential data .  ii. Better component design to get better performance at peak time.  iii. By streamlining and integrating multiple processes, it infuses much speed, agility, and efficiency into the system. It boosts the performance and capabilities of a healthcare facility in treating patients.  iv. Maintainability (cloud-SaaS is used)  v. Reliability (It has a certain capacity to work offline.)  vi. Talking to the bot should feel like talking to a person (the bot should not reply instantly, 1-2 second delay between responses). |
| **Features** | i. Diet Tracker  ii. Location of hospital, 108, Medicine vendor along with phone numbers  iii. Prediction of disease using ML (give suggestion to undergo checkup with the predicted result.)  iv. Advertising of Events/Articals ( Like NSS ,blood donation etc.)  v. Doctor appointment  vi. A column for volunteering and organ donation.  vii. Blood bank finder.  viii. Login/Registration forms for different users.  ix. Depression Al chatbot (for depressed/stress patients). |
| **User Interface Priorities** | i. Professional look and feel and user friendly.  ii. Use of AJAX at least with all registration forms.  iii. Browser testing and support for IE, NN, Mozilla, and Firefox.  iv. Multi-functional search box.  v. Try to use NLP user interface for chatbot.  vi. It also include typography, colors, Buttons, Form, Icon, Spacing, Interaction & behaviour. |
| **Reports** | Report on the number of users  i. Reports on feedback by the customer and new requirements (suggestions from customers). |
| **Other Important issues** | Other Important issues are  i. All types of data regarding all types of user.  ii. High dependability/low downtime.  iii. Website should be highly customizable and flexible enough to easily deploy. |
| **Technologies to be Used** | Html,Css,javascript,XML,Java,PHP,SQL,AJAX, Python, Cloud , AI, ML  (Note: based on requirement and comfort these may change.) |
| **Tools to be Used** | Visual Studio,Notepad, VS code, MYSQL, Windows ,Git,XAMP  (Note: based on requirement and comfort these may change) |
| **Final Deliverable must Include** | i.Online or offline help to above said users  ii.SRS document  iii. Application archive with Database backup and DDL. Script  iv. Complete Source code |
| **About us** | N. Nagasivani-20BQ1A4239  A. Sai Srija-21BQ5A4201  A. Srija Reddy-20BQ1A4204  M. Naga Sundeep-20BQ1A4232 |