CSN-254

Feasibility Report

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1. **The customer for whom the work will be done?**

We are making a “Medical Information App” which stores all the required information of patients through a particular ID like Aadhar Card. This app will be made publicly, any hospital can use it to store the patient’s information. We can say that this product is to be released to the open market. As the customer is not known, the dummy customer or some 2-3 hospitals will be taken and chosen to take feedback about the app and the adjustments which may be required in this app. It will tell us about the user flexibility and about all the errors or bugs in the product.

1. **The Visibility plan. How will you keep in contact with the customer and report progress? How will you communicate among your team?**

There is no possibility for our team to precisely evaluate and implement the needs of every customer or every hospital in an open market as all the hospitals will have different requirements according to their needs due to which the requirements of some hospitals may not be completed or fulfilled. As a result, we must make effective use of the resources to meet most customers’ needs. So, it is necessary to keep in contact with the customer and report progress. For that, we will choose dummy customer or hospitals through which we can take feedback and perform regular surveys to determine the demands of hospitals and determine the resources it requires based on the requests we receive. Also, several discussions and meetings would be held with customer so that he can also keep the track of report progress. He/she can contact any of the team members if he/she finds any difficulty. Also, our team members will hold regular discussions and meetings among ourselves so that everyone knows the progress and the track on which project is going. Through these discussions, we all will be able to give and understand each other’s opinions. Regular surveys as mentioned earlier, will be performed with both the customer and among our team members. As a result, our team will be able to manage and improve and keep the contact with customer and communicate among themselves.

1. **A statement of the task to be undertaken?**

Just like how Aadhar card works, a medical ID number can be assigned to users which can be used by medical professionals to get timely access to medical information of the user in case of any mishap. Further building upon this idea, the user can save medical information of his/her illness as a file and this information can be accessed by a software which is exclusively present with hospitals. This will reduce the response time doctors need to read the medical reports and help determine what illness the patient has so that he/she can be given quick medical attention.

1. **A preliminary requirement analysis;**

Requirements analysis, also called requirements engineering, is the process of determining user expectations for a new or modified product.

* The user must be able to access his/her medical history details whenever he needs.
* The user should be able to see the prescription given by the doctor of whether present illness or past.
* The user would expect a good interface so that he/she can easily access all features

1. **Project Deliverables**

* A unique id number will be provided to the user through which he/she can access the medical information at any time.
* Software highlights all the allergies the patient is suffering what medication is to be avoided in case of a particular disease.
* The registered doctors can access all the medical details of the patient. They don’t need to conduct test for everything.

1. **Process to be followed, e.g., modified waterfall model, iterative refinement, prototype, phased development, etc**

We will choose **Iterative Waterfall model.**

Reasons to choose this model->

* Our software is neither too easy nor complex.
* It is well suited for well understood programs. Our goal for making this software is clear.
* As our project is small type software, we don’t need any kind of running prototype model.
* Our requirements are defined correctly at beginning of the project.

1. **Outline plan, showing principal activities and milestones?**

The data will be collected from the user and a user id is provided. All the medical problems he/she has will be updated on the software and whenever a new illness is detected it is updated by the doctor who is overseeing the treatment of user.

The user will be able to access this information at any time

1. **Risk analysis. What can go wrong? What is your fallback plan?**

Risk analysis is the process of assessing the likelihood of an adverse event occurring within the corporate, government, or environmental sector.

Risk analysis is the study of the underlying uncertainty of a given course of action and refers to the uncertainty of forecasted cash flow streams, the variance of portfolio or stock returns, the probability of a project's success or failure, and possible future economic states.

**What can go wrong:**

Important medical details can be leaked

**Fallback Plan:**

We will make sure that nobody can access data of any particular user except the doctor and the concerned patient. We will have to apply strong encryption on all medical details

1. **Probable technical requirements**

* Android studio
* Java/Dart/Kotlin
* 8-16GB RAM
* Flutter
* AVD
* NVIDIA Card