**[Year]**

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2.2PRELIMINARY INVESTIGATION

PRELIMINARY INVESTIGATION

Creative data solution found this new application more useful to people who are not aware of their blood type which at some point it’s more important to know your blood type.

This new application will also serve as several databases which can be used to manage appointment to those who want only to test their blood type, customer historical, communicate with customer their feedback

Challenges

• What if the application failed to communicate with the customer timey>

• We going to make sure our app respond in time

• lack of service>

Our app will be working 24/7 so we won’t face lack of services

• lack of document feedback to customer>

We will make sure if our customer wants their documents will get in time

Opportunities

To those who don’t know their blood type when they visit gym or hospital it’s their chance to check their blood type for example if they are at gym they will excise according to their blood time or eat according to their blood type

Recommendation

The software application should at least involve computer which is connected to internet that can be used as web server

Benefits

Reduce sickness because of eating unhealthy food.

Increase opportunity to those who wish to know their blood type.

As project manager it will take us 2 to 3 weeks to complete the research.

2.3 FEASIBILITY STUDY

DESCRIPTON

Our app is an app that is based on the importance of health; this app offers individuals the ability to know the kinds of foods they ought to eat according to their blood types. Our app will consist of all types of food that one can consume without affecting their health in any negative manner. It will also consist of the type of styles that one can make their meal without consuming too many calories.

MARKET

Our app will work well in gym companies because that is where most people know their blood types. The app has a chance of a high success rate at the gym cause the clients at the gym are required to eat healthy and know what types of foods is required for their blood types. The app will also be good to use in future because now we at a stage where as a country we are trying to encourage people to live healthy lifestyles, so with this app for future people will have the ability to download it in their smartphones, tablets and computers. Gyms that invest in this app will not regret because it will be good for their clients.

TECHNICAL

Our app will be installed in gym facilities which won’t require many things. The only thing that will be required is WIFI so that people can be able to access it.

FINANCIAL

Financially we estimate that creating this project will cost us around R15.000 which will cover the start-up capital and that capital that is needed for monthly up keep.

ORGANISATION

So the founders of this app are a grouped called the CREATIVE DATA SOLUTIONS. Which consist of 7 members who are:

HUMBULANI MULAUDZI - JAVA STUDENT

SIPHOSETHU MATHISO - JAVA STUDENT

PHUMUDZO MUTANGWA - NETWORK STUDENT

THABELO NETSHIVHUMBE - NETWORK STUDENT

KATLEGO MAHLASELA - NETWORK STUDENT

MUSA NKANYANE - BUSINESS STUDENT

MPUMELELO MOALE – DCA STUDENT

Our java students will help with the coding part, and our networks students will help with the networks part and our business student will help with the business part. This will all look at the aspects of the project.

2.4 PROJECT PLANNING

As we’re creating Food junky we aim to please our consumers/clients. We are going to use gnatt charts to plan our progress within our project environment. As much as the work may seem overwhelming the program needs to be completed at the right time. It is often easier to handle the details of a project and take steps in the right order when you break the project down into phases. There are five phases can help give our efforts structure and simplify them into a series of:

Project initiation: is the first phase of the project lifecycle. This is where the project’s value and feasibility are measured.

There are two tools that we can use to decide whether or not to pursue a project:

Business Case Document – This document justifies the need for the project, and it includes an estimate of potential financial benefits.

Feasibility Study – This is an evaluation of the project’s goals, timeline and costs to determine if the project should be executed. It balances the requirements of the project with available resources to see if pursuing the project makes sense.

Project planning: We will need a solid plan to guide the team, as well as keep them on time and on budget. A well-written project plan gives guidance for obtaining resources, acquiring financing and procuring required materials. The project plan gives the team direction for producing quality outputs, handling risk, creating acceptance, communicating benefits to stakeholders and managing suppliers.

The project plan also prepares us as team members for the obstacles we might encounter over the course of the project, and helps us understand the cost, scope and timeframe of the project.

Project execution: This is the phase that is most commonly associated with project management. Execution is all about building deliverables that satisfy the customer. Team member’s needs to keep focused on their assigned tasks. Execution relies heavily on the planning phase. The work and efforts of the team during the execution phase are taken from the project plan.

Project monitoring and control: Monitoring and control are sometimes combined with execution because they often occur at the same time. As we execute our project plan, we must constantly monitor our own progress. To guarantee delivery of what was promised, we must monitor tasks to prevent being behind schedule. This constant vigilance helps keep the project moving ahead smoothly.

Project closure: We close a project when we deliver the finished project to the customer, communicating completion to stakeholders and releasing resources to other projects. This vital step in the project lifecycle allows us to evaluate and document the project and move on the next one, using previous project mistakes and successes to build stronger processes and a successful team. Although project management may seem overwhelming at times, breaking it down into these five distinct cycles can help our team manage even the most complex projects and use time and resources more wisely.

2.5 PROJECT SCHEDULING

**Pert chart.**

**Gantt chart.**

2.6 SOFTWARE REQUIREMENT SPECIFICATION

• Food Junky is a software application that helps you tailor make your own food menu according to your Blood type. This software application will be applicable for Gyms, clinics/Hospitals, Old age homes, Rehabilitation centres and even Primary School which are accustomed to feeding schemes.

• This application should behave as follows:

For GYM fanatics (People trying to loose, gain or maintain their body weight) = Different foods have different benefit concerning what the person is trying to archive, with Food junky involved it can enhance ones diet plan in knowing exactly what to eat.

For Clinics/Hospitals = we often comes across allergies, food poisoning and all sorts of illness concerning food which half the population don’t understand, Food junky is a diagnose software application which will separate the toxic from the non-toxic which your body needs effectively

For Old age homes = Food Junky is suitable to be used for our senior citizen who suffer from multiple diseases and other illness. Food junky can help improve their immune systems. Food will be catered for them according to their blood type which will be much easier for a patient Doctor relationship.

For Rehabilitation centres = a cause for a rehabilitation institute means that one immune system has been damaged and need healing. With the infused help of Food junky certain foods have anti-toxin particles which will help rehabilitate one body fully.

2.6 DATA MODEL

Data model is an abstract model that organizes elements of data and standardizes how they relate to one another and to properties of the real world entities.

Data model is the foundation of our Application Food junky. It is equivalent to the underlying database tables

**ENTITIES**

Our application is an application that allows customers to find and overall design their own food menu(Food).To create this application, we’ll must have a customer, an order, an order line- which is the information entity keep track of both the blood type food results and the entry of the order. Each entity results in a table in the database with unique key.

Customer

Blood type

BT Food List

**ATTRIBUTES**

Adding details into our application software. As we fill our entities with attribute details of our application. This system is incredibly helpful for us as developers to make adjustments or addition to attributes mid-projection

customer

Name(string)

Contact Info(string)

Description(string)

Blood type

Type of blood(string)

Description(string)

BT Food list

Food list(string)

Date Of Order(string)

We adding names, an auto generated order number, along with a date when the order was placed. The attributes are equivalent to tables columns and how types and size such as string, integer, Boolean and all typical data types we need to build the applications

**ASSOCIATIONS**

After we have determined the entities and their attributes, now we are determine how they are all related as customers may have to update after a few months

customer

Name(string)

Contact Info(string)

Description(string)

Blood type

Type of blood(string)

Description(string)

BT Food list

Food list(string)

Date Of Order(string)

2.1 IDENFICATION OF NEED

We as creative data solution has noticed that many people are dying because of eating food which is poisonous towards their blood type and many people are seen visiting clinics because of having allergy after eating food which is exotic to their blood type.

People are lazy to do the research about this information in our community, some of them they do not know how to do research at all. There are Places like rehabilitations has people who has a system which is damaged and need healing, having this application at their place will help them eat health food according to their blood type and heal faster.

Having this application at this at rehabilitations, clinics and gyms will save people time to research, data and give people information they need so that they can buy food according to their blood type. Having this application at the places which has been mentioned above will make people know the information and spread into the community and community will know important it is to know their blood type to avoid illness and death in their live because their life