**TY. B. Tech.**

**CS 303: Software Engineering Laboratory**

Assignment No: 1

**e-HealthCare**

**Project Statement of Work**

***Version 1.0***

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 37 | **161077** | **Rohit Panicker** | **Front End** |
| 43 | **161075** | **Sanket Gaikwad** | **Database** |
| 45 | **161831** | **Sumeet Deshpande** | **PHP** |

**Approved by: Prof. (Dr.) Mahesh R. Dube.**

**Academic Year: 2018-19 Semester: II**

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# TITLE

**e-HealthCare** isan application related to hospital data which gives quick information about hospital and type of services provided by the hospital.

* 1. This system will help patients to search whether a specific disease’s cure is given by the hospital or not depending on health problem that the patient is facing.
  2. This system will also manage healthcare data of the patient which includes the type of medicines that are given to the patient, type of disease that the patient is having, symptoms, next follow up dates.
  3. This data will also be made available to the medical department so as to do paperless prescription service.
  4. Maintaining these records will help in retrieval of records as and when needed.

# BACKGROUND

The Healthcare industry is one of the world’s largest and fastest growing industries. Healthcare can form an enormous part of a country’s economy. The healthcare industry is typically divided into several areas. The United Nations International Standards Industrial Classifications (ISIC) categorizes the healthcare industry as:

1. Hospital activities.

2. Other human activities.

**2.1** To make the process of choosing the appropriate hospital as well as experienced

doctors process easy*.*

**2.2** This product will use by medicals, clinics, doctors and patients.

**2.3** Users above 16 years of age are eligible to use this system.

**2.4** The product will use website to project the output.

**2.5** It is an open source application and shall be accessible to all.

# OBJECTIVE

The system is aimed at people who want to avail the services of a particular disease so as to get the proper medication and treatment. The objectives of the system can be stated as follows:

**3.1** The objective of ‘E-HealthCare’ is to provide right and perfect information about the hospital for the people who are looking for specific type of cure.

**3.2** By this proposal, people can save their time by checking for services offered by the hospital on the hospital website instead of directly going to the hospital and doing inquiry at the hospital.

**3.3** The system shall provide the current package rates and discounts offered by the hospital.

**3.4** It shall provide the user with the overall experience of the current and past patients who took their treatment in the hospital.

**3.5** This information shall be updated on a regular basis.

**3.6** To create a transparent application which is also user friendly.

# DEFINITIONS AND APPLICABLE DOCUMENTS

1. **Patient** - A person under health care.

It is diversely defined as, for examples:

i)A person who requires medical care.

ii)A person receiving medical or dental care or treatment.

iii)A person under a physician's care for a particular disease or condition.

iv)A person who is waiting for or undergoing medical treatment and care.

1. **Website** - A website, or simply a site, is a collection of related web pages, including multimedia content, typically identified with a common domain name, and published on at least one web server. A website may be accessible via a public Internet Protocol (IP) network, such as the Internet, or a private local area network (LAN), by referencing a uniform resource locator (URL) that identifies the site.
2. **Nutritionist** - A nutritionist is a person who advises on matters of food and nutrition impacts on health.
3. **User** - Entity that has authority to use an application, facility, process, or system, and who may or may not be the actual purchaser of the service.

# BUSINESS AND/OR TECHNICAL ENVIRONMENT

The Business and Technical Environment of proposed system to succeed in a given time period is following:

1. At the first stage, the team will work daily two hours. But as per further requirements,

the team may increase their working time for completion of the system in a given period.

* This time will be utilised to work on completing the Project documentation which will take up a major role in the initial weeks of the Project.
* Later weeks will have more time invested in Project planning and implementation with the documents having a lighter format.
* Time will be evenly utilised for Documentation, Planning, Execution, Testing & Debugging.

1. Hypertext Mark-up Language(HTML): A standardized system for tagging text files to

achieve font, colour, graphic, and hyperlink effects on World Wide Web pages.

Cascading style sheet (CSS) is a language that describes the style of an HTML document.

CSS describes how HTML elements should be displayed.

1. PHP: Server-side scripting language designed primarily for web development but also used as a general-purpose programming language. The PHP script is embedded within a web page along with its HTML. Before the page is sent to a user that has requested it, the Web server calls PHP to interpret and perform the operations called for in the PHP script.

**Technical Environment:**

|  |  |
| --- | --- |
| **Format** | Web Based Application |
| **Internet Connection** | Required |
| **RAM** | 4GB |

# DESCRIPTION AND SCOPE OF WORK

The work that is to be done under healthcare sector so it is very much important to have the correct and more precise data. To build the system, multiple steps are required. This steps are as follows:

1. Acquiring data about the various diseases, their symptoms, cure, etc. from public data sources.
2. Data Cleaning and formatting according to needs (to provide the results).
3. Data visualization in order to understand the domain and be able to use domain specific knowledge.
4. Developing a web-based front-end application so as to ease the usage.
5. Developing in back-end for storing the user details and preferences.
6. Developing a form for feedback.

E-HealthCare will be made to only provide better services for society. It will provide a correct information and the charges for the operations/services provided by the hospital. There is no any restriction for accessing this platform.

# DELIVERABLES

Delivery will be in specific amount of stages to specify it is mentioned below. Initial idea will remain the same and same is true for core functionalities that we are going to provide in it. The functionalities will be delivered in terms of updates for the website. It is not probably possible to make the complete service available all at once so delivery will vary based on work done and updates rolled. Each stage time will be specified and required details along with the website functionalities will be delivered

|  |  |  |
| --- | --- | --- |
| Serial Number | Details | Month |
| 1 | Planning and Project outlining | January |
| 2 | Data gathering | February |
| 3 | Database Modelling | March |
| 4 | Integrate software with GUI | April |
| 5 | Testing and final debugging | April |

# APPROACH AND METHODOLOGY

* 1. Preparing proper documentation and getting the information of hospital according to patient’s location by creating proper SOW, Feature Set Document and SRS Document.
  2. A Feasibility Study will be performed depending on the features discussed between the hospitals and patients and a Project Plan will be drawn up.
  3. The Project will follow the agile model and all the necessary steps will be taken as per industry standards.
  4. A Sprint Execution will be carried out in phases to finish the project in the stipulated time, this will be done with the help of a Sprint Design and Plan.
  5. A Software Configuration Management Plan (SCMP) will be presented to ensure consistency of the product's performance, functional, and physical attributes with its requirements, design, and operational information throughout its life.
  6. At the end of each sprint, the team will have produced a coded, tested and usable piece of software.
  7. The System will be reviewed by the concerned hospital and all the issues related to patient’s health will be resolved.
  8. Upon resolution of these issues a final and formal sign-off will be suggested.

**T.Y. B. Tech.**

**CS 303: Software Engineering Laboratory**

Assignment No: 2

**e-HealthCare**

**Project Feature Set Description**

***Version 1.0***

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 37 | **161077** | **Rohit Panicker** | **Front End** |
| 43 | **161075** | **Sanket Gaikwad** | **Database** |
| 45 | **161831** | **Sumeet Deshpande** | **PHP** |

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**Academic Year: 2018-19 Semester: II**

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| 5 | Feature Set |  |
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| 7 | Acceptance Criteria |  |

# PROJECT VISION

The project vision of **“e-Healthcare”** is to create a platform for people where they can search for the services and avail this services in a convenient manner.

# PROJECT MISSION

The project mission summarises the aim of this project and what it is trying to achieve. This is the system’s Project Mission:

1. This is an informatory system of hospital, which shall provide the users with relevant information about the hospital.
2. The users of this system shall be getting the fee structure, hospital quality, surrounding area of the hospital, different types of service provided by the hospital, the hygiene of the hospital and patient’s reviews of every doctor in the hospital.
3. The software wishes to reduce the struggle that people face while going through the process of choosing the hospital. As the data about all kind of treatment will be made available to the public, it will become easier for people to opt for a specific hospital.
4. Along with displaying various types of information, the system will also allow updating the information with the help of various forms. Allow searching of patients and medical records on the basis of given details*.*

# PROJECT SCOPE

1. The system shall provide the users with specific details of the hospital and the services offered by the hospital.
2. Feedback will be taken from who visited the hospital before and integrate feedback with front end work.
3. This system shall have the detailed information about the fee structure of each service stating the base fee and the facilities it provides in it.
4. The discount offers or special packages (if any) shall be updated on a regular basis.
5. The information of the doctors and the nutritionists that are employing in the hospital shall be made accessible to the users in details.
6. It shall give the users the information about the fitness activities that the fitness centre (in the hospital) conducts.

# GOALS

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|  | **Goal-ID** |  |  | **Priority** | |  | **Factors Addressed** | | | |  |
|  |  |  | |  | | | |  |  |  | |
|  | **1** |  | |  | 1 | | |  | Consolidate Hospital Details. | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Target Audience** |  | |  |  | | |  |  | Doctors, Hospital, Staff. | |  |
|  |  |  | |  |  | | |  |  | | |
|  | **Driver** |  | |  |  | | |  | To gather information about the hospital services. | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Description** |  | |  |  | | |  |  | Populating the whole database with hospital information. | |  |
|  |  |  | |  |  | | |  |  | | |
|  | **Response** |  | |  |  | | |  | The goal is to extract data from websites and other information of hospital which is appropriate and verified. | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Open Issues** |  | |  |  | | |  |  | 1. Are the details about the customer correct? 2. Whether information of hospital is verified? 3. What variety of questions will be asked? 4. What are the various sections included in services*?* | |  |

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| --- | --- | --- | --- | --- |
| Goal 1 Description: | | | | |
| Specific Test | | | | |
| Is ‘What’ identifiable? | Is the ‘Why’ clear? | Can ‘Who’ be identified? | ‘Where’ will it be performed? | ‘Which’ resources are needed? |
| Collecting data related  Hospital  Services. Information gathering of every doctor, disease cure , etc. | To collect the details about every staff of the hospital and to populate the whole database for future analyzing. | The data will be used by patient and customers i.e. users of the system. | Hospital official’s admin panel,   |  | | --- | | Source’s | | Infrastructure and Software engineer’s machines, | | Interviews with the doctor and other staff of the hospital. |

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| Goal 1 Description: | | |
| Measurable Test | | |
| Is the end result quantifiable? | ‘Figure’ of Measurement | Has the goal a clear end date/point? |
| The database will contain details of hospital e.g. staff, services, etc. which shall later be used appropriately to provide the users with information. | It can be measured on the basis of how much information regarding hospital details is stored in the database. | This is the initial step of database, so good amount of details is the end point of this goal. |

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| Goal 1 Description: | | | |
| ATTAINABLE Test | | | |
| What is your reaction to goal? | Does it feel realistic? | Is it overwhelming? | Do you find it motivating? |
| This goal can be stated as the most important building block of the system. This database will contain  details of hospital center which shall later be used appropriately to provide services to the users with information. | The collection of data by interviewing the hospital staff is possible to be done in a fair amount time. It seems to be realistic as we are collecting the details of the care center. | It is a moderately overwhelming task. Real challenge to handle the database in an effective manner when the user count increases. | It is motivating as it is the main part of the project. |

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| Goal 1 Description: | | |
| RELEVANT Test | | |
| Does it fit into the overall team / organization objective? | Taking overall fit is the timing appropriate? | Do you have sufficient resources / budget to succeed? |
| It forms the most crucial part of the system and hence helps to attain the problem that the team faces. The goal will help us to deal with helping people’s lives, which will help to progress of company. | Yes, overall fit of the goal is the timing appropriate because for the details of the doctors and each department in hospital is must. By using the sprint execution method, we can achieve this goal. | Yes, we do have the resource such as phone, PC, tablet required to implement the proposed system. In terms of requirements,  assistant has ample of resources. |

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| Goal 1 Description: | | |
| TIME BOUND Test | | |
| Does it have a clear end date/point? | Is the focus clear so you can create an action plan? | Is its position on an Urgency/Importance grid clear? |
| This is the initial step of database, so good amount of migrant details is the end point of this goal. The collection of data of the hospital services and hospital staff shall mark the end point of this goal. | Yes, we shall obtain the information about services provided by the doctors, departments for further operations. The focus is to create a database containing the information about the hospital services and hospital staff. | This is going to be a base data for the system as it shall contain the information of the services provided, doctors. This is going to be base data for all new users as well as hospital staff. So this is the most important part of the system. |

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|  | **Goal-ID** |  |  | **Priority** | |  | **Factors Addressed** | | | |  |
|  |  |  | |  | | | |  |  |  | |
|  | **2** |  | |  | 1 | | |  | Adding the collected data to the website. | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Target Audience** |  | |  |  | | |  |  | Doctors, Hospital Staff, Users. | |  |
|  |  |  | |  |  | | |  |  | | |
|  | **Driver** |  | |  |  | | |  | Purpose to Exist. | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Description** |  | |  |  | | |  |  | Adding the collected information about the hospital facilities, services, staff to the website. | |  |
|  |  |  | |  |  | | |  |  | | |
|  | **Response** |  | |  |  | | |  | Provide information about the hospital and its staff to the users of the system. | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Open Issues** |  | |  |  | | |  |  | 1. Making sure about the data that is being entered on the website is correct or not. 2. Data Protection. 3. Without doctor’s consent, the data should not be changed. | |  |

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| Goal 2 Description: | | | | |
| Specific Test | | | | |
| Is ‘What’ identifiable? | Is the ‘Why’ clear? | Can ‘Who’ be identified? | ‘Where’ will it be performed? | ‘Which’ resources are needed? |
| Adding the collected data of Hospital  Services and its staff to the website. Information gathering of Doctors, Service provided. | To maintain the details regarding every service. To help to make users visible about the service. | The data will be used by patient and customers i.e. users of the system so as to get the information about the hospital. | It will be performed on development machines. | The information collected in the input stage and computer to do the processing. |

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| Goal 2 Description: | | |
| Measurable Test | | |
| Is the end result quantifiable? | ‘Figure’ of Measurement | Has the goal a clear end date/point? |
| The database containing details of hospital e.g. staff, services, etc. will be used to build the website. | It can be measured on the basis of how much information regarding hospital details is stored in the database and how much data has been added to the website. | This is the initial step of database, so good amount of details is the end point of this goal. |

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| Goal 2 Description: | | | |
| ATTAINABLE Test | | | |
| What is your reaction to goal? | Does it feel realistic? | Is it overwhelming? | Do you find it motivating? |
| This goal is important and genuine part of the system because this part will be available to the public so that they’ll check the hospital facilities on the website. | The goal seems realistic. The hospital will not be involved with this goal as the data is already collected in the prior stage. | It is a moderately overwhelming task. It overwhelming, as we have to experiment a lot of tools to classify data | It is motivating as it is the main part of the project. It is motivating because  If we don’t implement this, then we won’t get the quality of result we want |

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| Goal 2 Description: | | |
| RELEVANT Test | | |
| Does it fit into the overall team / organization objective? | Taking overall fit is the timing appropriate? | Do you have sufficient resources / budget to succeed? |
| This forms the part of the creation of online platform for hospital in a proper manner, which makes the process of choosing service more efficient. This goal forms the crucial part of the system. | The timing will be a little short as the data has to observed over a period of time even after project completion. We can achieve this goal in the decided time. | Yes, we do have the resource such as phone, PC, tablet required to implement the proposed system. In terms of requirements,  assistant has ample of resources |

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| Goal 2 Description: | | |
| TIME BOUND Test | | |
| Does it have a clear end date/point? | Is the focus clear so you can create an action plan? | Is its position on an Urgency/Importance grid clear? |
| The goal must be achieved before the deliverable product is produced. It is also the main goal to initialize the process. As the data is needs to be periodically updated accordingly, there is no as such clear end point. | The focus of the goal is to create a website which has information regarding the hospital and its services given to the public. The focus is to gain maximum users to populate our database so as to analyses the data which helps in need and demand management. | This goal is important because it provides proper filtration of the content and sticking to main point that needs to be displayed at the user stage. This is going to be a base data for the system as it shall contain the information of the doctors, staff, services. |

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|  | **Goal-ID** |  |  | **Priority** | |  | **Factors Addressed** | | | |  |
|  |  |  | |  | | | |  |  |  | |
|  | **3** |  | |  | 1 | | | 2 | Building user profile. | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Target Audience** |  | |  |  | | |  |  | Doctors, Hospital Staff, Users. | |  |
|  |  |  | |  |  | | |  |  | | |
|  | **Driver** |  | |  |  | | |  | To store the information of user. | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Description** |  | |  |  | | |  |  | To obtain the details of user. | |  |
|  |  |  | |  |  | | |  |  | | |
|  | **Response** |  | |  |  | | |  | To extract the information of user. | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Open Issues** |  | |  |  | | |  |  | 1. Are the details about the user correct? 2. Is there any fake user profile? 3. How many users have applied? | |  |

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| Goal 3 Description: | | | | |
| Specific Test | | | | |
| Is ‘What’ identifiable? | Is the ‘Why’ clear? | Can ‘Who’ be identified? | ‘Where’ will it be performed? | ‘Which’ resources are needed? |
| This goal will help in building User’s profile.  This will be the primary step for any user for interaction with the hospital staff. | 1. To collect the details 2. To maintain the details regarding user. | This step will be useful for user of the system as it will involve medical report and status of appointments. | As this process is done by the user himself, it will be performed on user’s machines. | As this stage involves building user profile, so the information about the user will be provided by him/her. |

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| Goal 3 Description: | | |
| Measurable Test | | |
| Is the end result quantifiable? | ‘Figure’ of Measurement | Has the goal a clear end date/point? |
| As we can’t predict how many people will register on this portal, hence the end result is not quantifiable. The main motive of this is to populate the user’s database so as to proceed with next steps. | It can be measured on the basis of how much information regarding user details is stored in the database. The primary keys which will be used in database will help in deciding how many users are signed up to avail the service and how many of them are contacting. | This step will add the user details to the database as user creates his/her profile. So, this will be a dynamic result gathering and adding to database. Therefore, this process has no end date as such. No, there is no end-date as this goal is a run-time goal. |

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| Goal 3 Description: | | | |
| ATTAINABLE Test | | | |
| What is your reaction to goal? | Does it feel realistic? | Is it overwhelming? | Do you find it motivating? |
| This step will play a crucial part in the system as only after the creation of the user profile, the user will be able to contact the hospital authority. | This seems realistic. The hospital’s database will be involved with this process as the data is collected from users will be added to the hospital system. | It is a moderately overwhelming task. Its feasibility is dependent on how well the model functions. | It is motivating as this will help the hospital management staff to look for how many people actually interacted and out of those how many availed the service. |

|  |  |  |
| --- | --- | --- |
| Goal 3 Description: | | |
| RELEVANT Test | | |
| Does it fit into the overall team / organization objective? | Taking overall fit is the timing appropriate? | Do you have sufficient resources / budget to succeed? |
| This forms the part of the creation of online platform for users that will interact with hospital, which makes the process of selecting service and doctor’s more efficient. | Yes. It is possible. The timing will be a little short as the data has to observed over a period of time even after project completion. This will help in analyzing how many users are active on the platform. | Yes, we do have the resource such as phone, PC, tablet required to implement the proposed system. In terms of requirements,  assistant has ample of resources |

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| Goal 3 Description: | | |
| TIME BOUND Test | | |
| Does it have a clear end date/point? | Is the focus clear so you can create an action plan? | Is its position on an Urgency/Importance grid clear? |
| As this process is done by the user, therefore it doesn’t have any end date. This process is dynamic. This is the initial step of database, so good amount of facilitators is the end point of this goal. | The focus of the goal is to create a user profile as per the details entered by the user so it will be easier for user to access the details in future. This will also help user to communicate with the hospital staff easily. | It is the last and never ending stage of the system. The position of the goal is clear. This goal has high priority as it will involve user involvement and also hospital staff as well as the pharmacist. It is the basic requirement for the user to interact with the staff. |

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|  | **Goal-ID** |  |  | **Priority** | |  | **Factors Addressed** | | | |  |
|  |  |  | |  | | | |  |  |  | |
|  | 4 |  | |  | 2 | | | 2 | Adding Consulted data | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Target Audience** |  | |  |  | | |  |  | Doctors, Users. | |  |
|  |  |  | |  |  | | |  |  | | |
|  | **Driver** |  | |  |  | | |  | Adding consulted data of each user to database. | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Description** |  | |  |  | | |  |  | In this stage, the user’s consulted medical data will be added to his own database profile. | |  |
|  |  |  | |  |  | | |  |  | | |
|  | **Response** |  | |  |  | | |  | The goal is to provide a medical report available to each user. | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Open Issues** |  | |  |  | | |  |  | Correctness in medical report addition. | |  |

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| Goal 4 Description: | | | | |
| Specific Test | | | | |
| Is ‘What’ identifiable? | Is the ‘Why’ clear? | Can ‘Who’ be identified? | ‘Where’ will it be performed? | ‘Which’ resources are needed? |
| Feedback mechanism | To correct and cross-validate the model | It can be done by the user. | It will be performed on development machines during development of  the system and also on  client/user machines. | The user profiles collected in the input stage will be required for feedback purpose. |

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| --- | --- | --- |
| Goal 4 Description: | | |
| Measurable Test | | |
| Is the end result quantifiable? | ‘Figure’ of Measurement | Has the goal a clear end date/point? |
| It is a qualitative result, as an improvement in predictions. It can be measured by comparing the earlier predictions with new predictions | It can be measured on the basis of how well the feedback has been taken into consideration by the improvement. | As the feedback will be taken on regular basis, this goal does not have any end date. |

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| Goal 4 Description: | | | |
| ATTAINABLE Test | | | |
| What is your reaction to goal? | Does it feel realistic? | Is it overwhelming? | Do you find it motivating? |
| This will be one of the goals to be achieved in this system to improve from what we have achieved. | Once the earlier goal is achieved, it is feasible. | It is plausible considering that we have a prediction and we can clearly create a way to feedback. | It is motivating because it is a main part of a system that aims to solve a valid problem. |

|  |  |  |
| --- | --- | --- |
| Goal 4 Description: | | |
| RELEVANT Test | | |
| Does it fit into the overall team / organization objective? | Taking overall fit is the timing appropriate? | Do you have sufficient resources / budget to succeed? |
| This forms the part of this system that handles feedback mechanism., which will be a helpful addition. | The timing will be a little short as the Data has to observed over a period of time even after Project completion. | The resources we need should be served after the input stage and the previous processing stage. In terms of hardware requirements, team has enough resources |

|  |  |  |
| --- | --- | --- |
| Goal 4 Description: | | |
| TIME BOUND Test | | |
| Does it have a clear end date/point? | Is the focus clear so you can create an action plan? | Is its position on an Urgency/Importance grid clear? |
| The goal will need to be achieved before the deliverable product is produced. | The focus of this goal is clear: to create a feedback mechanism. So, steps forward can be taken. | In the initial stages, it would be less important as input goals need to be cleared first, after that it would have medium/high importance. |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Goal-ID** |  |  | **Priority** | |  | **Factors Addressed** | | | |  |
|  |  |  | |  | | | |  |  |  | |
|  | 5 |  | |  | 3 | | | 2 | Creating prescription for pharmacy | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Target Audience** |  | |  |  | | |  |  | Doctors, Users, Pharmacist. | |  |
|  |  |  | |  |  | | |  |  | | |
|  | **Driver** |  | |  |  | | |  | To make the consulted medical report available to medical. | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Description** |  | |  |  | | |  |  | In this stage, the users who took appointment for the doctor, their medical report is visible to pharmacist. | |  |
|  |  |  | |  |  | | |  |  | | |
|  | **Response** |  | |  |  | | |  | The goal is to provide the medicine list of each user to the pharmacy. | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Open Issues** |  | |  |  | | |  |  | Correctness of medicine list observation. | |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Goal 5 Description: | | | | |
| Specific Test | | | | |
| Is ‘What’ identifiable? | Is the ‘Why’ clear? | Can ‘Who’ be identified? | ‘Where’ will it be performed? | ‘Which’ resources are needed? |
| Feedback mechanism | To correct and cross-validate the model | It can be done by the user. | It will be performed on development machines during development of  the system and also on  client/user machines. | The user profiles collected in the input stage will be required for feedback purpose. |

|  |  |  |
| --- | --- | --- |
| Goal 5 Description: | | |
| Measurable Test | | |
| Is the end result quantifiable? | ‘Figure’ of Measurement | Has the goal a clear end date/point? |
| It is a qualitative result, as an improvement in predictions. It can be measured by comparing the earlier predictions with new predictions | It can be measured on the basis of how well the feedback has been taken into consideration by the improvement. | As the feedback will be taken on regular basis, this goal does not have any end date. |

|  |  |  |  |
| --- | --- | --- | --- |
| Goal 5 Description: | | | |
| ATTAINABLE Test | | | |
| What is your reaction to goal? | Does it feel realistic? | Is it overwhelming? | Do you find it motivating? |
| This will be one of the goals to be achieved in this system to improve from what we have achieved. | Once the earlier goal is achieved, it is feasible. | It is plausible considering that we have a prediction and we can clearly create a way to feedback. | It is motivating because it is a main part of a system that aims to solve a valid problem. |

|  |  |  |
| --- | --- | --- |
| Goal 5 Description: | | |
| RELEVANT Test | | |
| Does it fit into the overall team / organization objective? | Taking overall fit is the timing appropriate? | Do you have sufficient resources / budget to succeed? |
| This forms the part of this system that handles feedback mechanism., which will be a helpful addition. | The timing will be a little short as the Data has to observed over a period of time even after Project completion. | The resources we need should be served after the input stage and the previous processing stage. In terms of hardware requirements, team has enough resources |

|  |  |  |
| --- | --- | --- |
| Goal 5 Description: | | |
| TIME BOUND Test | | |
| Does it have a clear end date/point? | Is the focus clear so you can create an action plan? | Is its position on an Urgency/Importance grid clear? |
| The goal will need to be achieved before the deliverable product is produced. | The focus of this goal is clear: to create a feedback mechanism. So, steps forward can be taken. | In the initial stages, it would be less important as input goals need to be cleared first, after that it would have medium/high importance. |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Goal-ID** |  |  | **Priority** | |  | **Factors Addressed** | | | |  |
|  |  |  | |  | | | |  |  |  | |
|  | 6 |  | |  | 3 | | | 2 | Feedback Integration. | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Target Audience** |  | |  |  | | |  |  | Doctors, Hospital Staff, Users. | |  |
|  |  |  | |  |  | | |  |  | | |
|  | **Driver** |  | |  |  | | |  | To make the model better using feedback. | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Description** |  | |  |  | | |  |  | In this stage, the previous users who took service from the doctor will rate the service. | |  |
|  |  |  | |  |  | | |  |  | | |
|  | **Response** |  | |  |  | | |  | The goal is to provide a way for feedback to affect the model for improvement. | | |  |
|  |  |  | |  |  | | |  |  |  | |
|  | **Open Issues** |  | |  |  | | |  |  | Discussion and Revision | |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Goal 6 Description: | | | | |
| Specific Test | | | | |
| Is ‘What’ identifiable? | Is the ‘Why’ clear? | Can ‘Who’ be identified? | ‘Where’ will it be performed? | ‘Which’ resources are needed? |
| Feedback mechanism | To correct and cross-validate the model | It can be done by the user. | It will be performed on development machines during development of  the system and also on  client/user machines. | The user profiles collected in the input stage will be required for feedback purpose. |

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| --- | --- | --- |
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|  |  |  |
| --- | --- | --- |
| Goal 6 Description: | | |
| TIME BOUND Test | | |
| Does it have a clear end date/point? | Is the focus clear so you can create an action plan? | Is its position on an Urgency/Importance grid clear? |
| The goal will need to be achieved before the deliverable product is produced. | The focus of this goal is clear: to create a feedback mechanism. So, steps forward can be taken. | In the initial stages, it would be less important as input goals need to be cleared first, after that it would have medium/high importance. |

# FEATURE SET

|  |  |
| --- | --- |
| Feature-ID | Feature Description |
| 1 | Creates interactive and easy system so that it will be more reachable. |
| 2 | The online platform will be fair as in feedback and services offered. |
| 3 | Front-end that enables quick and useful operation |
| 4 | Maintaining the user information for future follow-ups. |
| 5 | Portability since the proposed front end can be accessed on any platform. |
| 6 | To select most appropriate doctor and service for the treatment. |

# STAKEHOLDERS

|  |  |  |  |
| --- | --- | --- | --- |
| Stakeholder | Concerns | Quadrant | Strategy/ Benefits |
| Hospital Department | Ensuring proper handover of project to operations team | Minimal Effort | Communicate project specifications as required |
| Project Guide | Resource and scheduling constraints for production once project is transitioned to operations | Key Player | Solicit stakeholder as member of steering committee and obtain feedback on project planning. Frequent communication and addressing concerns are imperative |
| Concerned Department | Ensuring on time delivery of materials | Minimal Effort | Communicate project schedule and material requirements ahead of time to ensure delivery |
| Media Companies | Questions regarding design of product | Keep Informed | Allow technical staff to work with stakeholder to answer questions and address concerns and provide test results for validation |

# ACCEPTANCE CRITERIA

7.1As discussed earlier the objectives of the project have been discussed with the

customer and these will be satisfied when delivering the project.

7.2 The team’s project manager will review the project before its handing over

also an external group will be assigned to check that the team has stayed true to

its promises.

7.3 Any changes that the customer wishes after the product completion will be

addressed in 1-2 weeks of the initial written application by the customer.

This is the deliverance acceptance report:

|  |  |  |
| --- | --- | --- |
| Item | Concerns | Accepted / Rejected |
| Vision Definition | Complexity | Accepted |
| Mission Definition | Relation with Deliverables | Accepted |
| Goals | Description and structure | Accepted |
| Feature Definitions | Readability for non-technical stakeholders | Accepted |
| Deliverables definition | Consistency | Accepted |

**T.Y. B. Tech.**

**CS 303: Software Engineering Laboratory**

Assignment No: 3

**e-HealthCare**

**System Requirement Specification**

***Version 1.0***

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 37 | **161077** | **Rohit Panicker** | **Front End** |
| 43 | **161075** | **Sanket Gaikwad** | **Database** |
| 45 | **161831** | **Sumeet Deshpande** | **PHP** |

**Approved by: Prof. (Dr.) Mahesh R. Dube.**

**Academic Year: 2018-19 Semester: II**

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# INTRODUCTION

The introduction of the Software Requirements Specification (SRS) provides an overview of the entire SRS with purpose, scope, definitions, acronyms, abbreviations, references and overview of the SRS. The aim of this document is to gather and analyze and give an in-depth insight of the complete **e-HealthCare** software by defining the problem statement in detail. Nevertheless, it also concentrates on the capabilities required by stakeholders and their needs while defining high-level product features.

|  |  |
| --- | --- |
| Item | Description |
| Purpose | To jot down the System Requirement Specifications of the Hospital Management. The purpose of the SRS to give a complete technical background of our system and its likely implementation. |
| Audiences | Developers, Clients and other concerned audiences. |
| SRS Scope | This document illustrates the requirements of the proposed Hospital Management System. The document gives a detailed description of both the functional and non-functional requirements proposed by the client. |
| Project Scope | The proposed system shall provide the user an overview of the various factors that are needed to be taken into consideration while choosing the type of service required, doctor, facilities, quality of the staff, etc. Primarily, the scope pertains to the patients who are in trouble or whose physical condition is not well that patients are able to use this application easily. It focuses on the patients, their locations and health issue of that patient. |

# TERMS OF REFERENCE

1. Stakeholder: refers to anyone who is invested in the welfare and success of a school and its students, including administrators, teachers, staff members, students, parents, families, community, members, local business leaders, and elected officials such as school board members, city councillors, and state representatives.
2. Customer Expectations: The perceptions that customers have when they contact an organization or service provider about the kind and level and quality of products and services they should receive. These expectations are a factor of customers own previous experience with the organization or the experience of their friends.
3. Benchmark: A standard against which measurements or comparisons can be made.
4. Vendor: A vendor, also known as a supplier, is an individual or company that sells goods or services to someone else in the economic production chain.
5. User: Entity that has authority to use an application, equipment, facility, process, or system, or one who consumes or employs a good or service to obtain a benefit or to solve a problem, and who may or may not be the actual purchaser of the item.
6. Stakeholder: Any individual who may be affected by a business decision. The term may refer to just about anyone who has some interest in a company or its products.
7. End User: An end user is the person that a software program or hardware device is designed for. The term is based on the idea that the "end goal" of a software or hardware product is to be useful to the consumer. The end user can be contrasted with the developers or programmers of the product.
8. HOSPITAL: Catalogue can be configured to display the availability of each item as “In HOSPITAL” or “Out of HOSPITAL” of the product.
9. Database: A database is a collection of information that is organized so that it can be easily accessed, managed and updated.
10. Hardware: The mechanical equipment necessary for conducting an activity, usually distinguished from the theory and design that make the activity possible.
11. Business Process: An inter-related set of cross-functional activities or events that result in the delivery of a specific product or service to a customer.
12. Agile: Response ability state marked by high competence at both proactive and reactive change.
13. Interoperability: Degree to which two or more systems, products or components can exchange information and use the information that has been exchanged.
14. Code Review: A meeting at which source code is presented for review, comment, or approval.
15. Configuration Management: A process that effectively controls the coordination and implementation of changes to software components.
16. Integrity: The degree to which a software component or application prevents unauthorized access to, or modification of, programs or data.
17. Module Testing: The process of testing individual software modules or sets of related modules to verify the implementation of the software.

|  |  |  |
| --- | --- | --- |
| Serial Number | Terms | Glossary |
| 1 | Agile | (1) Response ability state marked by high competence at both proactive and reactive change. (Dove 2001, 69)  (2) [Project](http://sebokwiki.org/wiki/Project_(glossary)) execution methods can be described on a continuum from “adaptive” to “predictive.” Agile methods exist on the “adaptive” side of this continuum, which is not the same as saying that agile methods are “unplanned” or “undisciplined.” (INCOSE 2011, 40, 183) |
| 2 | Milestone | (1) A significant point or event in the project. (PMI 2008)  (2) A scheduled event used to measure progress. (IEEE 1998) |
| 3 | Product | (1) A system considered from the point of view of a physical “system end product” (ANSI/EIA 2003) made of system elements that may include hardware, software, infrastructure and support [services](http://sebokwiki.org/wiki/Service_(glossary)). The people and [organizational](http://sebokwiki.org/wiki/Organizational_(glossary)) aspects of the “whole system” of which the “product system” forms a part have to be considered in the [design](http://sebokwiki.org/wiki/Design_(glossary)), but are provided by another [organization](http://sebokwiki.org/wiki/Organization_(glossary)). (INCOSE UK Chapter 2010)  (2) An artefact that is produced, is quantifiable, and can be either an end item in itself or a component item. (PMI 2008) |
| 4 | Requirement | Statement that identifies a [product](http://sebokwiki.org/wiki/Product_(glossary))\* or [process](http://sebokwiki.org/wiki/Process_(glossary)) [operational](http://sebokwiki.org/wiki/Operational_(glossary)), functional, or [design](http://sebokwiki.org/wiki/Design_(glossary)) characteristic or [constraint](http://sebokwiki.org/wiki/Constraint_(glossary)), which is unambiguous, testable or measurable, and necessary for product or process acceptability. (ISO/IEC 2007)  \*includes product, [service](http://sebokwiki.org/wiki/Service_(glossary)), or [enterprise](http://sebokwiki.org/wiki/Enterprise_(glossary)). |
| 5 | Stakeholder | (1) Individual or organization having a right, share, claim, or interest in a system or in its possession of characteristics that meet their needs and expectations (ISO/IEC/IEEE 2015)  (2) Individual or organization having a right, share, claim, or interest in a system or in its possession of characteristics that meet their needs and expectations; N.B. Stakeholders include, but are not limited to end users, end user organizations, supporters, developers, producers, trainers, maintainers, disposers, acquirers, customers, operators, supplier organizations and regulatory bodies. (ISO/IEC June 2010)  (3) An individual, team, or organization (or classes thereof) with interests in, or concerns relative to, a system. (ISO/IEC 2007)  (4) A stakeholder in an organisation is (by definition) any group or individual who can affect or is affected by the achievement of the organisation's objectives. (Freeman 1984) |

# PROBLEM DESCRIPTION

|  |  |  |
| --- | --- | --- |
| The problem of |  | Effectively determining the service provided by the hospital which is suitable for patient. |
|  |  |  |
| Affects |  | Hospital |
|  |  |  |
| The impact of which is |  |  The current scenario is that if patients have any health related issue then patient must have to go suitable hospital |
|  |  |  |
|  |  |  However, this isn’t sustainable, since not all patients bring actual and suitable treatment to the hospital. |
|  |  |  |
| A successful solution would |  |  A successful solution will give good facility to patients and provide them suitable services of the hospital. |
|  |  |  |
|  |  |  It will help bring down immediate action to the patient. |
|  |  |  |
|  |  |  |
| For |  | Patients |
|  |  |  |
| Who |  | Needs it for determining the services offered by the hospital. |
|  |  |  |
| The ‘E-HealthCare’ |  | Is a website. |
|  |  |  |
| That |  | Determines the services offered by the hospital based on the data related to patients health issue or disease of that patient. |
|  |  |  |
| Unlike |  | User |
|  |  |  |
| product |  | Won’t have biases and will not have prejudices. |
|  |  |  |

# FUNCTIONAL HIERARCHY

|  |  |  |  |
| --- | --- | --- | --- |
| Goal-ID | 1 | Consolidate Hospital Details. | Information regarding hospital, services provided, staff is collected in this stage. |
| Objective ID | 1 | Acquire Data |  |
| Process ID: 1 | Acquire hospitals information |
| Process ID: 2 | Adding new information to the hospital data |
| Objective ID | 2 | Analyse overall data |  |
| Process ID: 1 | Filter Relevant Data |
| Process ID: 2 | Ascertain Data Correctness |

|  |  |  |  |
| --- | --- | --- | --- |
| Goal-ID | 2 | Adding data to website. | In this process hospital profiles, data is updated , inserting & formatting. |
| Objective ID | 1 | Pre-process Hospital Data |  |
| Process ID: 1 | Determine the type of data that is collected |
| Process ID: 2 | Associate Hospitals Data on the front end |
| Objective ID | 2 | Database Design |  |
| Process ID: 1 | Associate the field of data collected and data that needs to be inserted. |
| Process ID: 2 | Add the collected data to the respective fields. |

|  |  |  |  |
| --- | --- | --- | --- |
| Goal-ID | 3 | Building user profile. | In process user will create his/her profile and the data is then added to database. |
| Objective ID | 1 | Collect user data |  |
| Process ID: 1 | Data associated with each user is collected. |
| Process ID: 2 | Data verification is done according to the database type. |
| Objective ID | 2 | Associate collected data | Associate the collected data to the database. |
| Process ID: 1 | Make connection each user profile to the database. |
| Process ID: 2 | Update the user data accordingly in the database. |

|  |  |  |  |
| --- | --- | --- | --- |
| Goal-ID | 4 | Adding Consulted data | In this process we add consulted data to website |
| Objective ID | 1 | Doctor’s Consultation |  |
| Process ID: 1 | State symptoms to doctor. |
| Process ID: 2 | Avail the service from doctor. |
| Objective ID | 2 | Medical Report Generation |  |
| Process ID: 1 | Providing medicine list to patient. |
| Process ID: 2 | Adding prescribed medicines to patient’s database. |

|  |  |  |  |
| --- | --- | --- | --- |
| Goal-ID | 5 | Availability prescription for pharmacy. | Medical Assertion is provided in this stage |
| Objective ID | 1 | Getting patient details |  |
| Process ID: 1 | Fetching relevant details about patient |
| Process ID: 2 | Getting medical prescriptionS |
| Objective ID | 2 | Reading database of each user |  |
| Process ID: 1 | Availability of each consulted patient. |
| Process ID: 2 | Providing medicines by id of user. |

|  |  |  |  |
| --- | --- | --- | --- |
| Goal-ID | 6 | Feedback Integration. | In this stage, feedback is taken from previous patients so as to improvise the quality of service. |
| Objective ID | 1 | Generate Feedback Mechanism |  |
| Process ID: 1 | Assess User Feedback |
| Process ID: 2 | Process User Feedback |
| Objective ID | 2 | Adding Feedback To Feedback Database |  |
| Process ID: 1 | Determine Feedback Response |
| Process ID: 2 | Apply Necessary Changes |

**5. USER INTERFACES**

5.1 Abbreviated UI, it is the junction between a user and a computer program. An interface is a set of commands or menus through which a user communicates with a program. A command-driven interface is one in which you enter commands. A menu-driven interface is one in which you select command choices from various menus displayed on the screen.

The user interface is one of the most important parts of any program because it determines how easily you can make the program do what you want. A powerful program with a poorly designed user interface has little value. Graphical user interfaces (GUIs) that use windows, icons, and pop-up menus have become standard on personal computers.

GUI is a program interface that takes advantage of the computer's graphics capabilities to make the program easier to use. Well-designed graphical user interfaces can free the user from learning complex command languages. On the other hand, many users find that they work more effectively with a command-driven interface, especially if they already know the command language.

Graphical user interfaces, such as Microsoft Windows and the one used by the Apple Macintosh, feature the following basic components:

* Pointer: A symbol that appears on the display screen and that you move to select objects and commands. Usually, the pointer appears as a small angled arrow. Text -processing applications, however, use an I-beam pointer that is shaped like a capital I.
* Pointing device: A device, such as a mouse or trackball, that enables you to select objects on the display screen.
* Icons: Small pictures that represent commands, files, or windows. By moving the pointer to the icon and pressing a mouse button, you can execute a command or convert the icon into a window. You can also move the icons around the display screen as if they were real objects on your desk.
* Desktop: The area on the display screen where icons are grouped is often referred to as the desktop because the icons are intended to represent real objects on a real desktop.
* Windows: You can divide the screen into different areas. In each window, you can run a different program or display a different file. You can move windows around the display screen, and change their shape and size at will.
* Menus: Most graphical user interfaces let you execute commands by selecting a choice

from a menu.

In addition to their visual components, graphical user interfaces also make it easier to move data from one application to another. A true GUI includes standard formats for representing text and graphics. Because the formats are well-defined, different programs that run under a common GUI can share data. This makes it possible, for example, to copy a graph created by a spreadsheet program into a document created by a word processor.

* 1. Characteristics of Successful User Interfaces

1. **Clear**: Clarity is the most important element of user interface design. Indeed, the whole purpose of user interface design is to enable people to interact with your system by communicating meaning and function. If people can’t figure out how your application works or where to go on your website, they’ll get confused and frustrate.
2. **Concise**: Clarity in a user interface is great, however, you should be careful not to fall intothe trap of over-clarifying. It is easy to add definitions and explanations, but every time you do that you add mass. Your interface grows. Add too many explanations and your users will have to spend too much time reading through them. Keep things clear but also keep things concise. When you can explain a feature in one sentence instead of three, do it.
3. When you can label an item with one word instead of two, do it. Save the valuable time of your users by keeping things concise. Keeping things clear and concise at the same time isn’t easy and takes time and effort to achieve, but the rewards are great.
4. **Familiar**: Many designers strive to make their interfaces ‘intuitive’. But what does intuitive really mean? It means something that can be naturally and instinctively understood and comprehended. But how can you make something intuitive? You do it by making it

‘familiar’. Familiar is just that: something which appears like something else you’ve encountered before. When you’re familiar with something, you know how it behaves – you know what to expect. Identify things that are familiar to your users and integrate them into your user interface.

1. **Responsive**: Responsive means a couple of things. First of all, responsive means fast. The interface, if not the software behind it, should work fast. Waiting for things to load and using slaggy and slow interfaces is frustrating. Seeing things load quickly, or at the very least, an interface that loads quickly (even if the content is yet to catch up) improves the user experience. Responsive also means the interface provides some form of feedback. The interface should talk back to the user to inform them about what’s happening. Have you pressed that button successfully? How would you know? The button should display a

‘pressed’ state to give that feedback.

1. **Consistent**: Consistent interfaces allow users to develop usage patterns– they’ll learn what the different buttons, tabs, icons and other interface elements look like and will recognize them and realize what they do in different contexts. They’ll also learn how certain things work, and will be able to work out how to operate new features quicker, extrapolating from those previous experiences.
2. **Attractive**: This one may be a little controversial but I believe a good interface should be attractive. Attractive in a sense that it makes the use of that interface enjoyable. Yes, you can make your UI simple, easy to use, efficient and responsive, and it will do its job well – but if you can go that extra step further and make it attractive, then you will make the experience of using that interface truly satisfying. When your software is pleasant to use, your customers or staff will not simply be using it – they’ll look forward to using it. There are of course many different types of software and websites, all produced for different markets and audiences. What looks ‘good’ for any one particular audience will vary. This means that you should fashion the look and feel of your interface for your audience. Also, aesthetics should be used in moderation and to reinforce function. Adding a level of polish to the interface is different to loading it with superfluous eye-candy.
3. **Efficient**: A user interface is the vehicle that takes you places. Those places are the different functions of the software application or website. A good interface should allow you to perform those functions faster and with less effort. Now, ‘efficient’ sounds like a fairly vague attribute – if you combine all of the other things on this list, surely the interface will end up being efficient? Almost, but not quite. What you really need to do to make an interface efficient is to figure out what exactly the user is trying to achieve, and then let them do exactly that without any fuss. You have to identify how your application should ‘work’ – what functions does it need to have, what are the goals you’re trying to achieve? Implement an interface that lets people easily accomplish what they want instead of simply implementing access to a list of features.
4. **Forgiving**: Nobody is perfect, and people are bound to make mistakes when using your software or website. How well you can handle those mistakes will be an important indicator of your software’s quality. Don’t punish the user – build a forgiving interface to remedy issues that come up. A forgiving interface is one that can save your users from costly mistakes.
5. For example, if someone deletes an important piece of information, can they easily retrieve it or undo this action? When someone navigates to a broken or non-existent page on your website, what do they see? Are they greeted with a cryptic error or do they get a helpful list of alternative destinations?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **UI-** | **UI Name** | **Type** | **Scope** |  |
| **ID** |  |  |  |  |
| **1** | Collect Data | Input | Hospitals data added to the database. |  |
| **2** | Examine Data | Input | Clarify the data, collecting only the useful information. | |
| **3** | Acquire information | Input | System acquires information of the selected hospitals. | |
| **4** | Extract Hospital | Input | User asks for information of hospital. |  |
|  | information |  |  |  |
|  |  |  |  |  |
| **5** | Stored Data | Command | This will store the collected data. |  |
| **6** | Display Features | Navigation | The features of the data will be display. | |
| **7** | Process Queries | Command | Query is processed to acquire data and proceed. | |
| **8** | Pre-process Data | Command | Data that can be added to database is acquired and pre- | |
|  |  |  | processed to standardise its format. |  |
| **9** | Append data | Command | Pre-processed data is verified and appended to the dataset. | |
| **10** | Estimate data | Command | The hospitals data will finally be evaluated. Feedback mechanism | |
|  |  |  | Will be triggered after this. |  |
| **11** | Fetch Hospital Data | Command | Acquire hospitals details and displaying, | |
|  |  |  | appending data |  |
| **12** | Display necessary | NL | Display the treatment available in hospital | |
|  | data |  |  |  |
| **13** | Display booking | NL | Show time availability of particular Doctor for booking | |
|  |  |  |  |  |
| **14** | Feedback Analysis | Input | The Feedback will be analyzed to improve the | |
|  |  |  | Results of the system. |  |
| **15** | Navigation Bar | Navigation | It will appear on each page from where users can switch to any | |
|  |  |  | Option. |  |
| **16** | Main Page | Menu | Users can navigate to different parts of the website using the | |
|  |  |  | Main page. |  |
| **17** | Collect Doctor  Data | Input | Doctors data added to the database |  |
| **18** | Display Doctor and hospital name | Input | According to patients disease appropriate treatment will be generated |  |
| **19** | Login System | Input | User enters correct login id and password for accessing and using website data |  |
| **20** | New hospital info | Input | Collect and display new hospitals info |  |
| **21** | Collect previous records | Input | Display the previous medical record of patient |  |
| **22** | Online prescription | Input | As per Doctor’s instruction prescription will be generated and which is accessible to medical shop owner |  |
| **23** | Store Feedback related data | Input | Store all the feedback data of application |  |
| **24** | Choose suitable hospitals | Input | When hospitals are displayed on the map user will able to choose suitable hospital and take treatment. |  |
|  |  |  |  |  |

**6. HARDWARE INTERFACES**

|  |  |  |
| --- | --- | --- |
| **Profile** |  | **Description (minimum requirements)** |
| Processor | **Intel Xeon E2630 v4 – 10 core processor** | |
| RAM | **8GB RAM** | |
| Server-Side Technology |  **Database storage space: 1 GB** | |
|  |  **Monitor of resolution 1024 x 768** | |
| Client-Side Technology |  **Monitor of resolution 1024 x 768** | |
|  |  **Working Internet Connection and Port** | |
| External Devices |  | **Monitor** |
|  |  | **Mouse** |
|  |  | **Keyboard** |

**7. SOFTWARE INTERFACES**

|  |  |
| --- | --- |
| **Profile** | **Description** |
| Front-end Capabilities | **HTML,CSS** |
| Back-end Capabilities | **PHP, MYSQL** |
| Programming Languages | **PHP** |
| Operating Environment | **Any** |
| Software Platform | **Browser** |
| Database Servers | **MYSQL** |
| Framework Resources | **NA** |
| API (If Any) | **NA** |
| Other Services/Resources | **NA** |

**8. LOGICAL DATABASES**

|  |  |  |
| --- | --- | --- |
| **Database Name** | **Parameter** | **Scope** |
| Hospital Details | All the basic details of hospitals. | Input Data |
| Nearby hospital | Predicted hospital for particular disease | Output Data |
| Window | Hospital information and booking appointment option | Updatable information |

**9. NON-FUNCTIONAL REQUIREMENTS**

* Reliability: Specify the factors required to establish the required reliability of the software system at time of delivery. If you have MTBF requirements, express them here. This doesn’t refer to just having a program that does not crash. This has a specific engineering meaning.
* Availability: Specify the factors required to guarantee a defined availability level for the entire system such as checkpoint, recovery, and restart. This is somewhat related to reliability. Some systems run only infrequently on-demand (like MS Word). Some systems have to run 24/7 (like an e-commerce web site). The required availability will greatly impact the design. What are the requirements for system recovery from a failure? “The system shall allow users to restart the application after failure with the loss of at most 12 characters of input”.
* Security: Specify the factors that would protect the software from accidental or malicious access, use, modification, destruction, or disclosure. Specific requirements in this area could include the need to:
  + Utilize certain cryptographic techniques
  + Keep specific log or history data sets
  + Assign certain functions to different modules
  + Restrict communications between some areas of the program
  + Check data integrity for critical variables
* Maintainability: Specify attributes of software that relate to the ease of maintenance of the software itself. There may be some requirement for certain modularity, interfaces, complexity, etc. Requirements should not be placed here just because they are thought to be good design practices. If someone else will maintain the system
* Portability: Specify attributes of software that relate to the ease of porting the software to other host machines and/or operating systems. This may include:
  + Percentage of components with host-dependent code
  + Percentage of code that is host dependent
  + Use of a proven portable language
  + Use of a particular compiler or language subset
  + Use of a particular operating system
* Correctness - extent to which program satisfies specifications, fulfils user’s mission objectives
* Efficiency - amount of computing resources and code required to perform function
* Flexibility - effort needed to modify operational program
* Interoperability - effort needed to couple one system with another
* Testability - effort needed to test to ensure performs as intended
* Usability - effort required to learn, operate, prepare input, and interpret output.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Characteristic** | **H/M/L** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** |
| 1 | Correctness | H |  | 2 |  |  |  |  |  |  |  |  |  |  |
| 2 | Efficiency | L |  |  |  |  |  |  |  |  |  | 10 |  |  |
| 3 | Flexibility | L |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 | Integrity/Security | H |  |  |  |  |  | 6 |  |  |  |  |  |  |
| 5 | Interoperability | M |  |  |  |  |  |  |  |  | 9 |  |  |  |
| 6 | Maintainability | H |  |  |  |  | 5 |  |  |  |  |  |  |  |
| 7 | Portability | M |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 | Testability | M |  |  |  |  |  |  |  | 8 |  |  |  |  |
| 9 | Usability | H |  |  | 3 |  |  |  |  |  |  |  |  |  |
| 10 | Availability | M |  |  |  | 4 |  |  |  |  |  |  |  |  |

**T.Y. B. Tech.**

**CS 303: Software Engineering Laboratory**

Assignment No: 4

**e-HealthCare**

**Feasibility Study Report**

**02-04-2019**

**Version 1.0**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 37 | **161077** | **Rohit Panicker** | **Front End** |
| 43 | **161075** | **Sanket Gaikwad** | **Database** |
| 45 | **161831** | **Sumeet Deshpande** | **PHP** |

**Approved By: Dr M. R. Dube**

**Academic Year: 2018-19** **Semester: II**

|  |  |  |  |
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1. **TECHNOLOGY CONSIDERATIONS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  | **Current Technology** |
|  | **Type** |  | **Parameter** | **Description** |
|  |  |  | CPU | Intel Xeon E2630 v4 – 10 core processor, 2.2 GHz with Turbo |
|  | Hardware |  |  | boost up to 3.1 GHz |
|  |  |  | RAM | 8GB |
|  |  |  | GPU | GeForce GTX 1060 |
|  |  |  | IDE’s | Notepad |
|  | Software |  | Local Server | XAMPP (PHP) |
|  |  |  | Browser | Mozilla or Chrome |

|  |  |  |
| --- | --- | --- |
|  |  | **Deployment Technology** |
| **Type** | **Parameter** | **Description** |
| Software | Browser | Mozilla or Chrome |
|  | Support | BOOTSRAP, JavaScript, jQuery |
| Hardware | Device | Desktop |
|  | Screen | Screen with minimum 1024×576 resolution |

1. **FEASIBILITY STUDY RESULTS**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Option** |  |  | **Outcome** |  |  | **Ranking** |  |  |  | **Discussion** |  |
|  |  |  |  | Expected |  |  | H |  | The Hospital information are available on the website and are successfully retrieved and sent for processing. | | |  |
|  | Collect hospital’s |  |  |  |  |  |  |  |  | | |  |
|  | Detail’s |  |  | Unexpected |  |  | L |  |  | Hospital’s Information aren’t available. This is unlikely since data about most Hospital is not available | |  |
|  |  |  |  |  |  |  |  |  |  |  | |  |
|  |  |  |  | Expected |  |  | H |  | Data is correct. Information are available in the right format | | |  |
|  | Check Hospital |  |  | Unexpected |  |  | L |  |  | Information aren’t in precise format. Because sometime | |  |
|  | Data |  |  |  |  |  |  |  |  | data of particular disease is not available on the website | |  |
|  | Correctness |  |  |  |  |  |  |  |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  | |  |
|  |  |  |  | Expected |  |  | H |  |  | Appropriate Doctor will be displayed correctly and available for appointment | |  |
|  | Display  Treatment for  Particular patient |  |  |  |  |  |  |  |  |  | |  |
|  |  |  | Unexpected |  |  | L |  |  | Data displayed will be displayed incorrectly because of | |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 1) | | Database issue |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | 2) | | Prediction issue |  |
|  |  |  |  | Expected |  |  | H |  | Queries are specific. Processing works properly and | | |  |
|  | Process |  |  |  |  |  |  |  | output is produced | | |  |
|  | Queries |  |  | Unexpected |  |  | L |  |  | Query has anomaly in it. In such case, the problem will | |  |
|  |  |  |  |  |  |  |  |  |  | Be pointed out and user will be able to correct it. | |  |
|  |  |  |  | Expected |  |  | M |  |  | User Profile consist of history of check-ups and patient’s medical record | |  |
|  | Building User Profile |  |  |  |  |  |  |  |  |  |  |  |
|  | Information |  |  | Unexpected |  |  | L |  |  | Hospital’s information unavailable and displaying is not | |  |
|  |  |  |  |  |  |  |  |  |  | Possible. |  |  |
|  |  |  |  | Expected |  |  | M |  | Feedback is positive. The appointment of nearby hospital generated are precise and consistent. | | |  |
|  | Process |  |  |  |  |  |  |  |  | |  |  |
|  | feedback |  |  | Unexpected |  |  | M |  |  | Feedback is negative. In such case model is retrained | |  |
|  |  |  |  |  |  |  |  |  |  | with correct parameters that generate positive feedback. | |  |
|  |  |  |  |  |  |  |  |  |  |  | |  |
|  |  |  |  |  |  |  |  |  |  |  | |  |

**5. REFERENCES**

1.Statement of Work

2.Feature Set

3.System Requirement Specifications

**T.Y. B. Tech.**

**CS 303: Software Engineering Laboratory**

Assignment No: 5

**E-HealthCare**

**Project Plan Outline**

**2-04-2019**

**Version 1.1**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 37 | **161077** | **Rohit Panicker** | **Front End** |
| 43 | **161075** | **Sanket Gaikwad** | **Database** |
| 45 | **161831** | **Sumeet Deshpande** | **PHP** |

**Approved By: Dr M. R. Dube**

**Academic Year: 2018-19** **Semester: II**

|  |  |  |
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**1. INTRODUCTION**

|  |  |  |
| --- | --- | --- |
|  | Deliverables | Benefits |
| 1. SOW | | Gives an idea of what the system is. |
| 2. | Feature Set | Provides the set of features the system will provide. |
| 3. | SRS | Specifies the requirements for the system. |
| 4. | Feasibility Study | Gives an account of how feasible it is to use the system. |
| 5. | Project Plan | Will provide information on how the project will be executed. |
| 6. | Sprint Level Planning Activity | Planning will help in easy execution of the system. |
| 7. | Sprint Level Design Activity | Preparing the design will make the implementation faster because a |
|  |  | Blueprint will be available. |
| 8. | Software Configuration | It will make the execution of the software much easier as there is a |
| Management Plan | | Plan in place. |
| 9. | Sprint Execution | The system will be available to use as early as possible. |
| 10. Sprint Review | | Fast review of the system so that so that errors can be removed as |
|  |  | Early as possible. |

**2. PROJECT MILESTONES**

|  |  |  |
| --- | --- | --- |
| **Milestones** | **Phase** | **Description** |
| **1** | Inception | Delivering Statement of Work document |
| **2** | Inception | Delivering Feature Set document |
| **3** | Elaboration | Feasibility study and Project Plan using AGILE |
| **4** | Elaboration | Sprint level planning activity |
| **5** | Construction | Sprint Plan and Sprint Design |
| **6** | Construction | Software Configuration Management Plan (SCMP) and Sprint Execution |
| **7** | Transition | Sprint Review and Sign- offs |
| **8** | Transition | Feedback |

**3. WORK BREAKDOWN STRUCTURE**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **WBS** |  |  | **WBS Package** |  |  | **Role** |  |  | **Description** |  |  | **Delivery** |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  | **ID** |  |  |  |  |  |  |  |  | **Date** |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1 |  |  | Documentation |  |  | Inception | |  | Creation of SOW, FRS, SRS | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2 |  |  | Designing |  |  | Elaboration | |  | Making Prototypes | |  |  |  |  |
|  |  |  |  |  | |  |  | |  | Development of Real System using appropriate | |  |  |  |  |
|  | 3 |  |  | Development |  |  | Construction | |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | Languages | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 4 |  |  | Testing |  |  | Construction | |  | Testing of System for Defects and checking for | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Correctness | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 5 |  |  | Product |  |  | Transition | |  | Marketing, Managing of the System in live | |  |  |  |  |
|  |  |  | Release |  |  |  |  | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 6 |  |  | Feedback |  |  | Transition | |  | Taking user experience as feedback and | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | modifying System | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**4. PROJECT COMMUNICATION**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Communication | Description | Frequency | Format | Participants/ | Deliverable | Owner |
| Type |  |  |  | Distribution |  |  |
| Weekly Status | Email summary of | Weekly | In | Project Guide, | Status Report | Project |
| Report | project status |  | Person | Project Team |  | Manager |
| Weekly Project | Meeting to review | Weekly | In | Project Team | Updated Action | Project |
| Team Meeting | action register and |  | Person |  | Register | Manager |
|  | Status |  |  |  |  |  |
| Project Monthly | Present metrics and | As | In | Project Guide, | Status and Metric | Project |
| Review (PMR) | status to team and | Needed | Person | Team, and | Presentation | Manager |
|  | Sponsor |  |  | Stakeholders |  |  |
| Project Gate | Present closeout of | As | In | Project Sponsor, | Phase completion | Project |
| Reviews | project phases and | Needed | Person | Team and | report and phase | Manager |
|  | kick-off next phase |  |  | Stakeholders | kick-off |  |
|  |  |  |  |  |  |  |
| Technical Design | Review of any | As | In | Project Team | Technical Design | Project |
| Review | technical designs or | Needed | Person |  | Package | Manager |
|  | work associated |  |  |  |  |  |
|  | with the project |  |  |  |  |  |

**5. ACTIVITY REGISTER**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Activity** |  |  | **Activity Name** |  |  | **Activity description** | |  |  |  | **Responsibility** |  |  |  | **Comments** |  |
|  | **Number** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ● | Create Project |  |  | ● | Sumeet Despande is |  |  | ● | Meet Deadlines |  |
|  |  |  |  |  |  |  |  | Initiation |  |  |  | responsible for |  |  |  |  |  |
|  | 1 |  |  | Prepare |  |  |  | Documents |  |  |  | coordinating with team |  |  |  |  |  |
|  |  |  |  |  |  |  |  | Feature Set and |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | SRS |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ● | Acquire Data from |  |  | ● | Sanket Gaikwad |  |  | ● | important phase for  developing the application |  |
|  | 2 |  |  | Collect Data |  |  |  | Sources on the |  |  |  | is responsible for |  |  | ● |  |  |
|  |  |  |  |  |  | Internet |  |  |  | acquiring correct |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | Data |  |  |  |  |  |
|  |  |  |  |  |  |  | ● | Develop the |  |  | ● | Rohit Panicker is |  |  | ● | Development in |  |
|  |  |  |  |  |  |  |  | Healthcare inventory system |  |  |  | responsible for |  |  |  | HTML,PHP |  |
|  | 3 |  |  | Developing |  |  |  |  |  |  |  | Delegating |  |  |  |  |  |
|  |  |  | System |  |  |  |  |  |  |  | everyone with |  |  |  |  |  |
|  |  |  |  |  | ● | Implement Model |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | to determine nearby location |  |  |  | instructions for |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | Development. |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | ● | Unit and System |  |  | ● | Sumeet Deshpande |  |  | ● | Preparing Test Cases |  |
|  |  |  |  | Checking for |  |  |  | Testing |  |  |  | will be in charge of |  |  |  |  |  |
|  | 4 |  |  |  |  |  |  |  |  |  | creating test cases |  |  |  |  |  |
|  |  |  | bugs |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | ● | Debugging |  |  |  | and checking for |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | Bugs |  |  |  |  |  |
|  |  |  |  |  |  |  | ● | Advertising |  |  | ● | Sumeet Deshpande will be responsible for marketing product |  |  | ● | Good application |  |
|  |  |  |  |  |  |  |  | System |  |  |  |  |  |  |  | Strategies |  |
|  |  |  |  | Releasing |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 5 |  |  |  |  | ● | Finding Clients |  |  |  |  |  |  |  |  |  |
|  |  |  | Product |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | ● | Rohit Panicker will |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | also share the |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | Responsibility. |  |  |  |  |  |
|  |  |  |  |  |  |  | ● | Taking reviews |  |  | ● | Sanket Gaikwad will |  |  | ● | Understanding what |  |
|  | 6 |  |  | Feedback of |  |  |  | from customers |  |  |  | oversee the |  |  |  | Changes are needed. |  |
|  |  |  | System |  |  | ● | Implementing |  |  |  | feedback and |  |  | ● |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | new features |  |  |  | Update activities. |  |  |  |  |  |

**6. TASKS PRIORITAZATION**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  | ***High Importance*** |  |  | ***Low Importance*** |  | ***Task*** | ***is of low*** | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | ***importance,*** | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | ***High*** |  |  | **1) Collect Hospital’s information.** | |  | **1) Build Hospital’s Profiles** |  | ***with*** |  | ***high*** |  |  |
|  | ***Task*** | | ***is*** | ***of*** | ***high*** |  |  |  |  |  | |  | **2) Online medical prescription** |  | ***Urgency factor.*** | | |  |  |
|  | ***importance,*** | | | | ***with*** |  |  |  |  |  |  |  |
|  |  |  | ***Urgency*** |  |  | **2) Initiation Documentation.** | |  | **3) Finding Hospital’s personal data** |  |  |  |  |  |  |
|  | ***factor.*** | |  |  |  |  |  |  |  | **Values** | |  | **5) Study Legality Issues** |  | *need* | *to* | *be* |  |  |
|  | ***High*** | |  | ***urgency*** | |  |  |  |  |  | **3) Finding appropriate treatment for patient** | |  | **4) Study Similar Projects** |  | *These* |  | *tasks* |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | |  |  |  | *completed* | | *on* |  |  |
|  | *Must be done today* | | | | |  |  |  |  |  |  |  |  |  |  | *Time.* |  |  |  |  |
|  | *&to high standard.* | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | *ONLY* |  | *spend* |  |  |
|  | *Action ASAP* | | | |  |  |  |  |  |  |  |  |  |  |  | *sufficient* | | *time* |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | *on them as not* | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | *Important.* | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | *Don’t* |  | *be* |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | *diverted* | |  |  |  |
|  |  |  |  |  |  |  |  | ***Low*** |  |  |  | |  | **1) Integrate Feedback** |  | ***Task is both low*** | | |  |  |
|  | ***Task*** | | ***is*** | ***of*** | ***high*** |  |  |  |  | **1) Determine System’s Accuracy** | |  | **2) Acquired hospital data** |  | ***in importance &*** | | |  |  |
|  | ***importance,*** | | | | ***but*** |  |  | ***Urgency*** |  |  | **2) Display Doctor’s availability** | |  |  |  | ***Urgency.*** | |  |  |  |
|  | ***has low*** | | | ***urgency*** | |  |  |  |  |  | |  |  |  |  |  |  |  |  |
|  | ***Factor.*** | |  |  |  |  |  |  |  |  | |  |  |  | *Discard as many* | | |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | *of these tasks as* | | |  |  |
|  | *By nature long-term* | | | | |  |  |  |  |  |  |  |  |  |  | *possible* | |  |  |  |
|  | *so need to:* | | |  |  |  |  |  |  |  |  |  |  |  |  | *because* | | *they* |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | *cause* |  | *great* |  |  |
|  | *1.* | *Set* | *target if* | | |  |  |  |  |  |  |  |  |  |  | *harm* | *to* | *your* |  |  |
|  |  | *None exists.* | | |  |  |  |  |  |  |  |  |  |  |  | *Productivity.* | | |  |  |
|  | *2.* | *Break-up* | | | *into* |  |  |  |  |  |  |  |  |  |  | *Delegate if they* | | |  |  |
|  |  | *chunks of work* | | | |  |  |  |  |  |  |  |  |  |  | *develop* | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | *Another’s KSA’s.* | | |  |  |

**7. RISK REGISTER**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **ID** |  |  | **Risk Description** |  |  | **Likely Cause of Risk** | |  |  | **Effect on** |  |  | **Phase** |  |  | ***Severity*** |  |  | **Ability to** |  |  | **Risk** |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | **Occurring** |  |  | **Project** |  |  | **Affected** |  |  | ***Level*** |  |  | **Detect** |  |  | **Rank** |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | **1)** | | **NOT ENOUGH DATA** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | **HOSPITAL’S INFORMATION** | |  |  | **AVAILABLE** |  |  | **FAILURE TO MAKE** |  |  |  |  |  | **High** |  |  | **MODERATE** |  |  | **SERIOUS** |  |  |
| **1** | |  |  | **2)** | | **DATA NOT** |  |  |  |  | **TRANSITION** |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **NOT AVAILABLE** | |  |  | determine |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | **AVAILABLE FOR** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | **OPEN USE** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  | **HOSPITAL’S INFORMATION** | | **1)** | | **DATA SOURCE** |  |  | **INFORMATION NEED** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | **MIGHT HAVE** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **2** | |  |  |  |  |  |  |  |  | **CONSTRUCTION** |  |  | ***Med*** |  |  | **MODERATE** |  |  |  |  |  |
|  |  |  |  |  |  | **TO BE FETCHED** |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **AREN’T CORRECT** | |  |  | **ANOMALIES** |  |  |  |  |  |  |  |  |  |  | **MODEST** |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | **AGAIN** |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  | **HOSPITAL’S INFORMATION** | | | **1)** | | **THE HOSPITAL’S** |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **SERIOUS** |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **3** | |  |  |  | **INFORMATION WERE** |  |  | **OBLIVIOUS OF** |  |  | **TRANSITION** |  |  | ***Med*** |  |  | **MODERATE** |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **OUTDATED** | | |  |  | **NOT UPDATED FOR** |  |  | **CURRENT** |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  | **THE NEXT TIME** |  |  | **SCENARIO** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  | **1)** | | **THE USER ENTERED** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | **WRONG HOSPITAL** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **4** | |  |  | **PROCESS QUERIES ARE** | |  |  | **INFORMATION** |  |  | **PREDICTION** |  |  | **TRANSITION** |  |  | ***Low*** |  |  | **EASY** |  |  | **TRIVIAL** |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | **2)** | | **REQUIRED** |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | **ANOMALOUS** | |  |  | **CANNOT BE MADE** |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  | **INFORMATION IN** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | **QUERY IS MISSING** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  | **1)** | | **LACK OF DOMAIN** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **5** | |  | **WRONG FEATURES** | | |  |  | **KNOWLEDGE** |  |  | **BIASED OR HIGH** |  |  | **CONSTRUCTION** |  |  | ***Med*** |  |  | **MODERATE** |  |  | **SERIOUS** |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **SELECTED/DROPPED** | | | **2)** | | **IMPROPER MODEL** |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | **VARIANCE MODEL** |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  | **SELECTION** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | **1)** | | **THE DATA** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | **AVAILABLE IS** |  |  |  |  |  |  |  |  |  | |  |  | |  |  | |  |
| **6** | |  | **INSUFFICIENT DATA** | | |  |  |  |  | **OVERFITTING** |  |  | **CONSTRUCTION** |  |  | ***High*** |  |  | **COMPLEX** |  |  | **CRITICAL** |  |  |
|  |  |  | **INSUFFICIENT FOR** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  | **GENERALIZATION** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**T.Y. B. Tech.**

**CS 303: Software Engineering Laboratory**

Assignment No: 6

**e-Healthcare**

**Project Backlog**

**4-10-2018**

**Version 1.0**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 37 | **161077** | **Rohit Panicker** | **Front End** |
| 43 | **161075** | **Sanket Gaikwad** | **Database** |
| 45 | **161831** | **Sumeet Deshpande** | **PHP** |

**Approved By: Dr M. R. Dube**

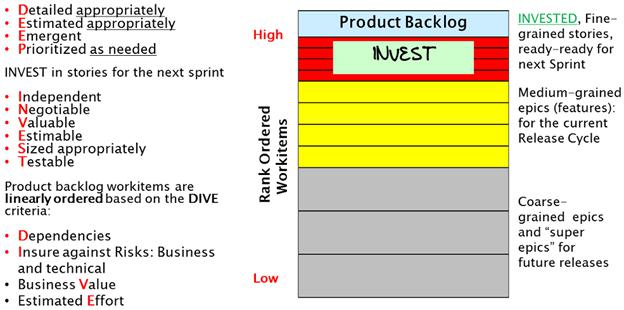
**Academic Year: 2018-19** **Semester: II**

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**1. INTRODUCTION**

*A product backlog stores, organizes and manages all work items that you plan to work on in the future. The key characteristics of a well-organized and managed product backlog are summarized in the image below. DEEP, INVEST and DIVE are meaningful words.*



*Figure 1: Characteristics of a Managed Product Backlog*

*The* ***granularity*** *or size of work items should be determined based on how far into the future you are planning a product, i.e., the planning horizon. It is the observation that the longer or shorter the planning horizon, the larger or smaller the work items. This makes sense as it takes a lot more effort to develop, specify and maintain a large number of small-grain work items compared to developing, specifying and maintaining a small number of large-grain work items. Smaller work items, stories, are typically developed by breaking down larger work items, epics. Stories are the unit of software design, development and value delivery.*

***DEEP product backlog***

*A product backlog may have several hundred or more work items, hence the acronym DEEP. Work items can be comprised of stories, defects and test sets. DEEP is acronym capturing the essence of the logical structure of product backlog.*

* + ***Detailed appropriately****: Work-items in the backlog are specified at an appropriate level ofdetail.*
  + ***Estimated appropriately****: Work-items in the product backlog are estimated appropriately.*
  + ***Emergent****: Product backlog is not frozen or static; it evolves or emerges on an on-going basisin response to product feedback, and changes in competitive, market and business. New backlog items are added, existing items are groomed (revised, refined, elaborated) or deleted or re-prioritized.*
  + ***Prioritized as needed****: Work-items in the backlog are linearly rank-ordered as needed.*

1. **SPRINT PLANNING AND WORK-ITEM GRANURALITY**

*If the planning horizon is the next, i.e., upcoming sprint or iteration (typically 2 to 4 weeks), each Work-items is small enough to fit in a single sprint, and is 100% ready (“ready-ready”) to be worked on, as indicated in Figure 1 – see the top red-color region. A ready-ready story has already been analyzed with clear definition (User Role, Functionality, and Business Value) and associated Acceptance Criteria. Work-items planned for the next sprint are stories, defects and test sets. The Work-items in the next sprint have the highest rank order compared to Work-items in later sprints or later release cycles. I will soon explain how this rank ordering is done.*

*The rank order information is used to decide the order in which the team will undertake work on Work-items in a sprint backlog, and also decide which incomplete Work-items to push out to the release or product backlog at the end of a sprint time-box.*

*Work-items in the next sprint collectively satisfy the well-known INVEST criteria; it is a meaningful English word, as well as an interesting acronym coined by Bill Wake. Its letters represent important characteristics of Work-items in the next sprint backlog. Stories in the next sprint backlog should be:*

* ***Independent of each other****: At the specification level stories are independent; they offer distinctly different functionality and don’t overlap. Moreover, at the implementation level these stories should also be as independent of each other as possible. However, sometimes certain implementation-level dependencies may be unavoidable.*
* ***Negotiable****: Stories in the next sprint are always subject to negotiations and clarifications among product owner (business proxy) and the members of agile development team.*
* ***Valuable****: Each story for the next sprint offers clear value or benefit to either external users or customers (outside the development team), or to the team itself, or to a stakeholder. For most products and projects, most stories offer value to external users or customers.*
* ***Estimable****: From the specification of story itself, an agile team should be able to estimate the effort needed to implement the story; this estimate is in relative size terms (story points), and optionally, it can also be in time units (such as ideal staff-hours or staff-days for the whole team). Thus, stories are estimated in story points, and also often in ideal time units.*
* ***Sized Appropriately****: A simpler interpretation of this criterion is that each story is Small enough to be completed and delivered in a single sprint. The letter “S” can be taken to mean Sized*

*Appropriately; specifically, each story should take no more than N/4 staff-weeks of team effort for an N-week long sprint. Thus, for a 2-week sprint, each story should take no more than 2/4 staff-week = 0.5 staff-week = 20 staff-hours of effort. A story substantially larger than 20 staff-hours of total effort should be treated as an epic and be broken down into smaller stories. For a 4-week sprint, each story should take no more than 4/4 staff-week = 1 staff-week = 40 staff-hours of effort. If a sprint backlog has a mix of stories that are small, medium or large size stories (their average far exceeds N/4 staff-weeks), the average cycle time across all stories will increase dramatically reducing the team velocity.*

* ***Testable****: Each story specification is very clear to be able to develop all test cases from its acceptance criteria (which is part of the specification).*

*Stories may be broken down into implementation tasks, such as Analysis, Design, Code Development, Unit Testing, Test Case Development, On-line Help, etc. These tasks need to be SMART:*

1. *S: Specific*
2. *M: Measurable* o *A: Achievable* o *R: Relevant*

o*T: Time-boxed (typically small enough to complete in a single day)*

*If a story needs to take no more than N/4 staff-week of team effort (ex. 20 staff-hours for 2-week sprints), all SMART tasks in a story should add up to no more than N/4 staff-week of team effort. If you have 5 tasks, each task on an average should take 4 hours of ideal time effort or less. Stories and its SMART tasks for the next sprint are worth Investing in, as the return on that Investment is high because they are scheduled to be worked on and delivered as working software in the next sprint itself.*

1. **RELEASE PLANNING AND WORK GRANURALITY**

*If the planning horizon is an upcoming release cycle (typically 8 to 26 weeks, or 2 to 6 months long – consisting of several sprints), Work-items are “medium-grain” as shown in the middle yellow colour region of Figure 1. Typically, many of these Work-items are epics; however, they should be still small enough to fit in a release cycle and can be completed over two or more sprints in a release cycle. These epics are typically called features or feature-epics. These feature-epics should still be specified with User Role, Action, Value and Acceptance Criteria formalism that is often used for specifying stories, but now you are capturing a larger functionality represented by a feature-epic. Feature-epics are divided into stories – small enough to fit in a sprint – before the sprint in which a story will be implemented.*

*Over the time horizon of an entire release cycle, Investing in stories for an entire release cycle has poor returns, because it takes a lot of effort to ensure that the INVEST criteria is being satisfied correctly for a large number of stories covering an entire release cycle, and those stories are much more likely to change over the release cycle spanning several sprints; so this kind of Investment may not yield expected results as stories will very likely change during an entire release cycle after they have been specified.*

***Feature-epics*** *in a release cycle can and should be estimated in relative size terms, but without expending the effort needed to break down all feature-epics in a release cycle into individual stories. This epic-level estimation can be done by comparing relative sizes of epics.*

*It still makes sense to rank order feature-epics in a release cycle to decide which ones will be scheduled in Sprint 1, 2, 3, and so on. However, this assignment may change as each sprint is completed and more information and learning emerge.*

**4. PRODUCT PLANNING AND WORK-ITEM GRANURALITY**

*If the product planning horizon is over multiple release cycles (typically 6 to 24 months) going beyond the current release cycle, Work-items are “****coarse-grain****” as shown in the bottom grey colour region of Figure 1. These large epics or super epics require two or more release cycles to complete. These super epics may be described in plain English (bulleted text) or with screen mock-up or video or prototype or with any form of expression suitable to express the intent and value of super epics. These super epics are divided into feature-epics – small enough to fit in a single release cycle – before the release cycle in which that feature-epic will be implemented.*

*Over the time horizon of multiple release cycles, investing in stories has even poorer returns compared to Investing in stories for a single release cycle. This kind of Investment will not yield expected results as stories are very likely to change over much longer duration of multiple release cycles.*

*Large epics or super epics that need multiple release cycles to be implemented can and should be estimated in relative size terms, but without expending the effort needed to break down large epics into feature-epics, and breaking those, in turn, into stories. DIVE the product backlog carefully*

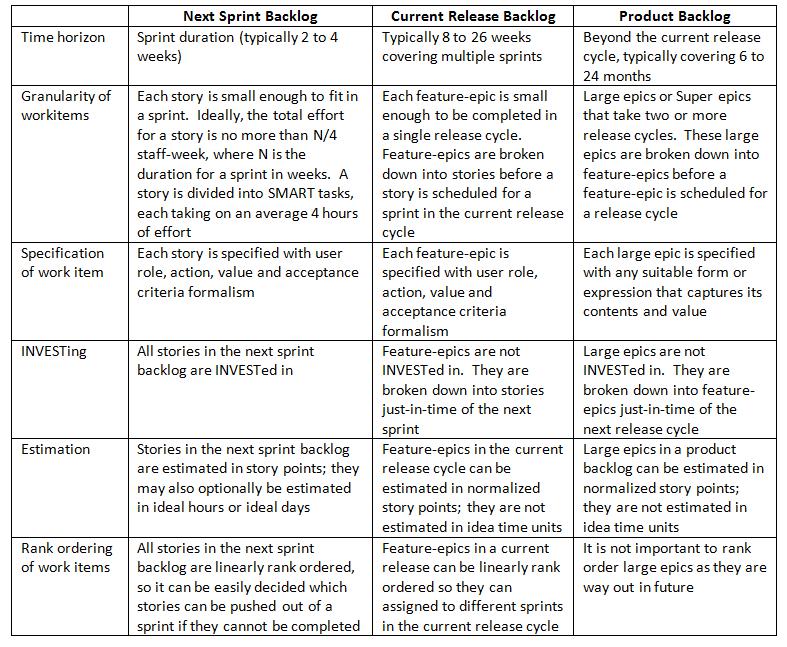
*There is rarely enough time or resources to do everything. Therefore, agile teams must prioritize (rank-order, to be more precise) which stories to focus on and which lowest rank-order stories could be pushed out of scope when close to the end of a sprint. For agile development projects, you should linearly rank-order the backlog, rather than do coarse-grain prioritization where stories and epics are lumped into a small number of priority buckets, such as Low, Medium, High, Critical priorities. Linear rank ordering (i.e., 1, 2, 3, 4 ….n) avoids inflation of priority, keeps everyone honest, and forces decisions on what is*

*really important. It discourages the “kid-in-a-candy-shop” behaviour when the business side clamours that everything is of high-priority or of equal importance.*

*Note that epics and stories are conceptually different, and should not be mixed or aggregated while developing a rank order. An epic rank order is separate from a story rank order.*

*The responsibility of agile rank ordering is shared among all members of a team; however, the rank ordering effort is led by the product owner. Similar to DEEP, INVEST and SMART, DIVE is a meaningful English word, and also an acronym. Product backlog items should be linearly ordered based on the DIVE criteria, which requires careful consideration of all four factors captured in the DIVE acronym:*

* *Dependencies: Even after minimizing the dependencies among stories or epics (which is always a good thing to do), there may still be few unavoidable dependencies and they will have an impact on rank ordering. If Work-item A depends on B, B needs to be rank-ordered higher than A.*
* *Insure against Risks: Business as well as technical risks*
* *Business Value*
* *Estimated Effort*



**5. PRODUCT BACKLOG: GOALS GRANURALITY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Goal-ID-1** |  |  | **Consolidate Hospital Details.** | |  |
|  |  |  |  | |  |
| **Purpose** |  |  | To gather information about the hospital services. Populating whole database with hospital information | |  |
|  |  |  |  | |  |
|  |  |  |  | |  |
|  |  |  |  | |  |
| **Target Audience** |  |  | Doctors, Hospital, Staff. | |  |
|  |  |  |  | |  |
| **Status** |  |  | On-going | |  |
|  |  |  |  | |  |
| **Task Description** |  |  | 1. First collect overall hospitals data | |  |
|  |  | | |  |  |
|  |  |  | 2. | Store it into database |  |
|  |  | | |  |  |
|  |  |  | 3. | Analyse and display that data |  |
|  |  | | |  |  |
|  |  |  | 4. | Analyse users disease |  |
|  |  | | |  |  |
|  |  |  | 5. | Search for treatment hospitals as per location |  |
|  |  | | |  |  |
|  |  |  | 6. | Display that hospitals data to the users |  |
|  |  | | |  |  |
|  |  |  | 7. | So user is able to check suitable hospitals data |  |
|  |  | | |  |  |
|  |  |  | 8. | Users provide feedback |  |
|  |  |  |  | |  |
|  |  |  |  | |  |
|  |  |  | 9. Store feedback of users | |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Goal-ID-2** |  |  | **Process Hospital Profiles** | |  |
|  |  |  |  | | |
| **Purpose** |  |  | Adding the collected information about the hospital facilities, services, staff to the website. | |  |
|  |  |  |  | |  |
|  |  |  | Doctor, Patients, Staff | |  |
|  |  |  |  | |  |
| **Target Audience** |  |  |  | |  |
|  |  |  |  | | |
| **Status** |  |  | On-going | |  |
|  |  |  |  | | |
| **Task Description** |  |  | 1. Provide Hospital Data to user. | |  |
|  |  | | |  | |
|  |  |  | 2. | Change the hospital data if new information is updated |  |
|  |  | | |  | |
|  |  |  | 3. | If new hospital is find then added to the database |  |
|  |  | | |  | |
|  |  |  | 4. | If hospital location is change then updated in database |  |
|  |  |  |  | | |
|  |  |  | 5. Save the updated information in database | |  |
|  |  | | |  | |
|  |  | | |  | |
|  |  | | |  | |
|  |  | | |  | |
|  |  |  |  | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Goal-ID-3** |  |  | **Building User Profile** | |  |  |  |
|  |  |  |  | | |  | |
| **Purpose** |  |  | To obtain data about all users | | |  |  |
|  |  |  |  | |  |  |  |
| **Target Audience** |  |  | Staff | |  |  |  |
|  |  |  |  | |  |  |  |
| **Status** |  |  | On-going | |  |  |  |
|  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1. | Collect data about various users |  |  |  |
|  |  |  | |  |  |  |  |
|  |  |  | 2. | Retrieve users data |  |  |  |
|  |  |  |  | |  |  |  |
|  |  |  | 3. Verify data according to database | |  |  |  |
|  |  |  |  | |  |  |  |
|  |  |  | 4. Connecting each user’s data to database | |  |  |  |
|  |  |  | |  |  |  |  |
|  |  |  | 5. | Update data into database |  |  |  |
|  |  |  | |  | | | |
|  |  |  | |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  | |  |  |  |
|  |  |  | 6. Showing treatment for disease as per requirement | |  |  |  |
|  |  |  |  | |  |  |  |
|  |  |  | 7. Recommendation of other hospitals | |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Goal-ID-4** |  |  | **Adding Consulted data** | |  |
|  |  |  |  | |  |
| **Purpose** |  |  | Provide booking appointment option and adding consulted data | |  |
|  |  |  |  | |  |
|  |  |  |  | |  |
| **Target Audience** |  |  | Patients,Doctors | |  |
|  |  |  |  | |  |
| **Status** |  |  | On-going | |  |
|  |  |  |  | |  |
| **Task Description** |  |  | 1. Filtering relevant data from database | |  |
|  |  | | |  |  |
|  |  |  | 2. | Create form for taking patient details |  |
|  |  | | |  |  |
|  |  |  | 3. | Analyze details of patient |  |
|  |  | | |  |  |
|  |  |  | 4. | Provide Hospital appointment date and time |  |
|  |  | | |  |  |
|  |  |  | 5. | Provide appropriate information accordingly |  |
|  |  | | |  |  |
|  |  |  | 6. | Appending value in database |  |
|  |  | | |  |  |
|  |  |  | 7. | Consult doctor |  |
|  |  | | |  |  |
|  |  |  | 8. | Checkup by Doctor |  |
|  |  | | |  |  |
|  |  |  | 9. | Handling report to to right patient database |  |
|  |  |  |  | |  |
|  |  |  | 10. Append Hospital’s Data | |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Goal-ID-5** |  |  | **Availability prescription for pharmacy** | |  |
|  |  |  |  | |  |
| **Purpose** |  |  | To give an information about the medicine. Helps the | |  |
|  |  |  | Customer to give the medicine according to | |  |
|  |  |  | Doctor’s consultancy | |  |
|  |  |  |  | |  |
| **Target Audience** |  |  | Customers, Pharmacist | |  |
|  |  |  |  | | |
| **Status** |  |  | On-going | |  |
|  |  |  | |  | |
| **Task Description** |  |  | 1. | Check medicine Data |  |
|  |  |  | |  | |
|  |  |  | 2. | Fetch medicine Data |  |
|  |  |  |  | | |
|  |  |  | 3. Feed data to the model | |  |
|  |  | | |  | |
|  |  |  | 4. | Find the information about medicine |  |
|  |  |  |  | | |
|  |  |  | 5. Get medicine from pharmacy | |  |
|  |  | | |  | |
|  |  | | |  | |
|  |  |  | 6. | Process and Transmit to Patients |  |
|  |  |  |  | | |
|  |  |  | 7. Update Database | |  |
|  |  | | |  | |
|  |  |  | 8. | Store Database |  |
|  |  |  |  | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Goal-ID-6** |  |  | Feedback Integration. | |  |
|  |  |  |  | |  |
| **Purpose** |  |  | To correct and cross validate the system. It helps in | |  |
|  |  |  | Improving the system. Necessary so that the system stays | |  |
|  |  |  | In touch with the real parameters and gives information. | |  |
|  |  |  |  | |  |
|  |  |  |  | |  |
| **Target Audience** |  |  | Patients | |  |
|  |  |  |  | | |
| **Status** |  |  | On-going | |  |
|  |  |  |  | | |
| **Task Description** |  |  | 1. Get feedback from user | |  |
|  |  |  | |  | |
|  |  |  | 2. | Process Feedback |  |
|  |  |  |  | | |
|  |  |  | 3. Determine Feedback Response | |  |
|  |  |  |  | | |
|  |  |  | 4. Analyse Required Changes | |  |
|  |  | | |  | |
|  |  |  | 5. | Finalize the necessary changes |  |
|  |  |  |  | | |
|  |  |  | 6. Get it approved from the team | |  |
|  |  | | |  | |
|  |  |  | 7. | Apply the necessary changes |  |
|  |  | | |  | |
|  |  |  | 8. | Formulate the software |  |
|  |  | | |  | |
|  |  |  | 9. | Re-Release Software |  |

10. Re-Evaluate Regularly



**T.Y. B. Tech.**

**CS 303: Software Engineering Laboratory**

Assignment No: 7

**e-Healthcare**

**User Story Cards**

**5-10-2018**

**Version 1.0**

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 37 | **161077** | **Rohit Panicker** | **Front End** |
| 43 | **161075** | **Sanket Gaikwad** | **Database** |
| 45 | **161831** | **Sumeet Deshpande** | **PHP** |

**Approved By: Dr M. R. Dube**

**Academic Year: 2018-19** **Semester: II**

|  |  |  |  |
| --- | --- | --- | --- |
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**1. INTRODUCTION**

*What does defining customer problems look like in an agile world? The agile manifesto reminds us that we don’t always have to do it the “traditional” way. As product managers, we should be doing whatever is required to tell the story of the customer. Try different things: experiment, explore, then do what works best for you and your team in the context that you might be working in.*

*If it means you can have several discussions and sketch something on a bit of paper – then do it.*  *What if you could get everyone (including the customer) in a room and do a user story mapping*

*Exercise? If that communicates the problems well, then you don’t need to go much further.*

 *Or what if you can visit the customer and watch them use your product in context? Could you get your engineers and designers to sit next to the customer to listen to and observe their problems?*

 *instrumenting your product with analytics hooks give you aggregate, concrete data about how customers as a whole are using your product.*

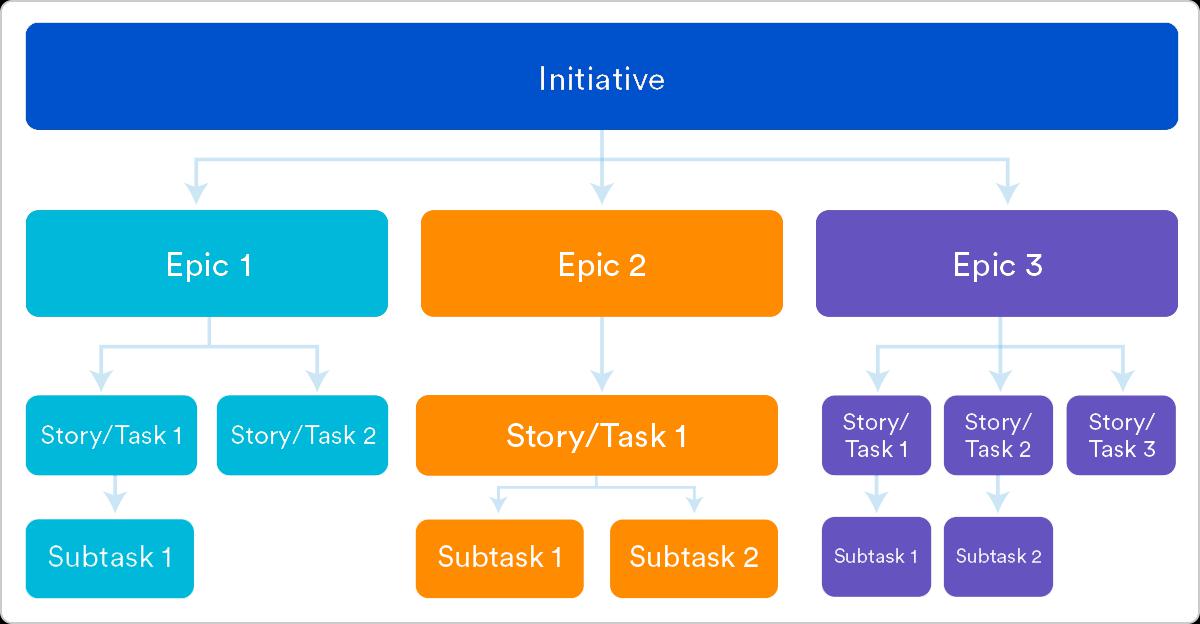
 *Another option would be to grab the product triad (a product manager, engineer and a designer) for a quick stand-up to sketch, discuss and make some quick decisions on the spot.*

 *Need to explore some more? Try running a workshop where you gather key stakeholders and do lots and lots of white-boarding or even paper prototyping to dive deep into understanding the problems you are trying to solve and how you could solve those problems.*

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| **Epic** | **Story** | **Version** | **Sprint** |
| Large body of work, | Smallest unit of work, | The release of software | Iteration where team |
| contains stories | also known as a task | to the customer | does the work |
|  |  |  |  |

**2. EPICS AND USER STORIES**

*Epics are larger bodies of work that stories roll up into. An epic can span across multiple sprints and versions. Versions are different from epics, because they are a point in time where software is released to the customer. A version might contain multiple epics. Epics help teams create hierarchy and structure. Stories help teams keep track of specific details for the task at hand and can be broken down into sub-tasks.*



* *An* ***epic*** *is a large body of work that can be broken down into a number of smaller stories. For example, performance-related work in a release. An epic can span more than one project, if multiple projects are included in the board to which the epic belongs.*
* *Unlike sprints, epics often change in scope over time as a natural aspect of agile development. Epics are almost always delivered over a set of sprints. As a team learns more about an epic through development and customer feedback, user stories will be added and removed to optimize the team's release time.*
* ***Burn down charts*** *can also be used to visualize epics, which keep teams motivated and the executive stakeholders informed. A good epic burn down chart shows the agile nature of development. It's clear how the team is progressing as well as where the product owner added and removed user stories. Having these data points clearly visible keeps everyone on the same page and facilitates open conversation about the evolution of the product and completion forecasts. Not to mention that transparency builds trust!*
* *A story or* ***user story*** *is the smallest unit of work in an agile framework. It is a software system requirement that is expressed in a few short sentences, ideally using non-technical language.*
* *The goal of a user story is to deliver a particular value back to the customer. Note that "customers" don't have to be external end users in the traditional sense, they can also be internal customers or colleagues within your organization who depend on your team.*
* ***User stories*** *are a few sentences in simple language that outline the desired outcome. They don't go into detailed requirements.*
* ***Versions*** *are the actual releases of software out to customers. Remember, at the end of each sprint the team should be able to ship the software to customers. Versions are the curated changes the product owner actually ships.*
* ***Versions*** *are often developed over a set of sprints, much like epics. Savvy product owners may choose to deliver an epic over several versions. An epic does not have to be fully contained within a version. By delivering an epic over several versions, the product owner can learn how the market is responding to that epic and make calculated decisions about its future direction rather than doing one giant release.*
* *A* ***sprint*** *is a short period in which the development team implements and delivers a discrete and potentially shippable application increment, e.g. a working milestone version. If you haven't run sprints before, we recommend using a fixed two-week duration for each sprint. It's long enough to get something accomplished, but not so long that the team isn't getting regular feedback.*
* *In* ***scrum****, teams commit to complete a set of user stories during a fixed time period. Generally speaking, sprints are one, two, or four weeks long. It's up to the team to determine the length of a sprint. Once a sprint cadence is determined, the team perpetually operates on that cadence. Fixed length sprints reinforce estimation skills and enable the ability to predict the future* ***velocity*** *for the team once they have the data from several completed sprints.*

*Once a team commits to a set of user stories for the sprint, and the sprint is started, the scrum master is in charge of fending off changes to the user stories. This keeps the team focused and combats "s****cope creep****" (adding work to the sprint after the sprint starts). Adding work mid-sprint compromises the team's ability to forecast and estimate accurately.*

*At the end of each sprint, the team is required to deliver a working piece of software. In scrum, that's called a* ***potentially shippable increment*** *(PSI). The product owner ultimately decides when the PSI gets released to customers, but the work should be complete enough to be suitable for release at the end of the sprint.*

*In agile development,* ***work in progress*** *(WIP) limits set the maximum amount of work that can exist in each status of a workflow. Limiting the amount of work in progress makes it easier to identify inefficiency in a team's workflow. Bottlenecks in a team's delivery pipeline are clearly visible before a situation becomes dire.*

**USER STORIES: GOAL-1: Consolidate Hospital Details**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Objective-1** |  | **Acquire Data** | | | | | | |  | |  |  |  |
|  |  |  | | |  |  | |  |  | |  |  |  |
| **Purpose** |  | The purpose is to develop Hospitals Profiles to enable the system to collect and analyze data. | | | | | | | | | | |  |
|  |  |  | | |  |  | |  |  | |  |  |  |
| **Target Audience** |  | Developer | | | | | | |  | |  |  |  |
|  |  |  | | |  |  | |  |  | |  |  |  |
| **Status** |  | Completed | | | | | | |  | |  |  |  |
|  |  |  | | |  |  | |  |  | |  |  |  |
| **Role:** |  | **As a** developer | | | | | | |  | |  |  |  |
|  |  |  |  | |  |  | |  |  | |  |  |  |
|  |  |  | **I want to** *<perform some task>* | | | |  |  |  | |  | **so that I can** *<achieve some goal>* |  |
|  |  |  | | |  |  | | |  | |  |  |  |
| **Task Description** |  | 1. Request creation of Hospitals Profile | | | | |  |  |  | |  | Use it to do further analysis. |  |
|  |  |  |  | |  |  | | |  | |  |  |  |
|  |  | 2. | Find Hospital Data Sources | | | |  |  |  | |  | Build hospital profiles. |  |
|  |  |  |  | |  |  | | |  | |  |  |  |
|  |  | 3. | Create a initial database | | | |  |  |  | |  | Can store the acquired hospital data. |  |
|  |  |  |  | |  |  | | |  | |  |  |  |
|  |  | 4. | Create a Hospital Database | | | |  |  |  | |  | Get updated hospital data. |  |
|  |  |  |  | |  |  | | |  | |  |  |  |
|  |  | 5. | Formulate database structure | | | |  |  |  | |  | Start creating profiles. |  |
|  |  |  |  | |  |  | | |  | |  |  |  |
|  |  | 6. | Display Hospital Database | | | |  |  |  | |  | Get idea about correctness of data. |  |
|  |  |  |  | |  |  | | |  | |  |  |  |
|  |  |  | | |  |  | | |  | |  |  |  |
|  |  |  |  | |  |  | | |  | |  |  |  |
|  |  | 9. | Assign database privileges | | | |  |  |  | |  | Monitor the changes made to the database. |  |
|  |  |  | | |  |  | | |  | |  |  |  |
|  |  | 10.Deliver all requirements  11.Create log file  12.Update database structure  13.Commit changes in database  14.Search all data  15.Set limits and bound  16.Search Hospital | | | | |  |  |  | |  | Fulfil project deliverables.  Maintain log  Update Database as changes  Commit changes dynamically  Search all data as required  Keep data in appropriate field  Make system for searching hospital |  |
|  |  |  | | |  |  | | |  | |  |  |  |
| **Process-1** |  | **Acquire Hospitals Information** | | | | | | |  | |  |  |  |
|  |  |  | | |  |  | | |  | |  | |  |
| **Purpose** |  | Collect Hospitals Information for developing Health care inventory system | | | | | | | | | | |  |
|  |  |  | | |  |  | | |  | |  |  |  |
| **Target Audience** |  | Internal Stakeholder | | | | | | |  | |  |  |  |
|  |  |  | | |  |  | | |  | |  |  |  |
| **Status** |  | Completed | | | | | | |  | |  |  |  |
|  |  |  | | |  |  | | |  | |  |  |  |
| **Role:** |  | **As a** developer | | | | | | |  | |  |  |  |
|  |  |  |  | |  |  | | |  | |  |  |  |
|  |  |  | **I want to** *<perform some task>* | |  |  | | |  | |  | **so that I can** *<achieve some goal>* |  |
|  |  |  | |  | | | | |  | |  | |  |
| **Task Description** |  | 1. Set up a mandatory field set | | |  |  | | |  | | Maintain consistency of database. | |  |
|  |  |  |  | | | | | |  | |  | |  |
|  |  | 2. | Search hospitals Information | |  |  | | |  | | Make system as accurate as possible. | |  |
|  |  |  |  | | | | | |  | |  | |  |
|  |  | 3. | Set hospitals data fields in database | |  |  | | |  | | Add hospital Information. | |  |
|  |  |  |  | | | | | |  | |  | |  |
|  |  | 4. | Accept Hospital Profile inputs | |  |  | | |  | | Add new hospitals. | |  |
|  |  |  |  | | | | | |  | |  | |  |
|  |  | 5. | Register hospitals Profiles into database | |  |  | | |  | | Store new hospitals information. | |  |
|  |  |  |  | | | | | |  | |  | |  |
|  |  | 6. | Set limits and bounds | |  |  | | |  | | Keep the data relative and realistic. | |  |
|  |  |  |  | | | | | |  | |  | |  |
|  |  | 7. | Populate Hospital Information | |  |  | | |  | | Compare hospitals. | |  |
|  |  |  |  | | | | | |  | |  | |  |
|  |  | 8. | Decide appropriate sorting for database | |  |  | | |  | | Create a relative hospital location. | |  |
|  |  |  |  | | | | | |  | |  | |  |
|  |  | 9. | Update Database structure | |  |  | | |  | | Accommodate info of hospitals profiles. | |  |
|  |  |  | | | | | | |  | |  | |  |
|  |  | 10. Create log file | | |  |  | | |  | | Keep track of changes made. | |  |
|  |  |  | | | | | | |  | |  |  |  |
| **Process-2** |  | **Adding new information to hospital data** | | | | | | |  | |  |  |  |
|  |  |  | | | | | | |  | |  |  |  |
| **Purpose** |  | Adding data to database as soon as it updates | | | | | | |  | |  |  |  |
|  |  |  |  | |  |  | |  |  | |  |  |  |
| **Target Audience** |  | Developer | | | | | | |  | |  |  |  |
|  |  |  | | | | | | |  | |  |  |  |
| **Status** |  | On-going | | | | | | |  | |  |  |  |
|  |  |  | | | | | | |  | |  |  |  |
| **Role:** |  | **As a** developer | | | | | | |  | |  |  |  |
|  |  |  |  | | | | | |  | |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  | | | | |  | |  | **so that I can** *<achieve some goal>* |  |
|  |  |  | | | | | | |  | |  |  |  |
| **Task Description** |  | 1.Add new data to database | |  | | | | |  | |  | Access it in future |  |
|  |  |  |  | | | | | |  | |  |  |  |
|  |  | 2. | Decide data to be added |  | | | | |  | |  | Maintain database correctness |  |
|  |  | |  | | | | | |  | |  |  |  |
|  |  | |  | | | | | |  | |  |  |  |
|  |  |  |  | | | | | |  | |  |  |  |
|  |  | 3. | Search all data to be added |  | | | | |  | |  | Verify data |  |
|  |  | |  | | | | | |  | |  |  |  |
|  |  | 4. | Produce the correct, improvised data |  | | | | |  | |  | Resolve the inconsistent issue. |  |
|  |  |  |  | | | | | |  | |  |  |  |
|  |  | 5. | Correct the found inconsistent factors |  | | | |  |  | |  | Refine the data. |  |
|  |  | 6. | Prioritize parameters |  | | | |  |  | |  | Prioritize all parameters |  |
|  |  | 7. | Record formulated observations |  | | | |  |  | |  | Discuss with the analysis team. |  |
|  |  |  | 8.Organize parameters |  | | | |  |  | |  | To simplify analysis process |  |
|  |  |  | | | | | | |  | |  |  |  |
|  |  |  | |  | | | | |  |  | |  |  |
| **Objective-2** |  | **Analyse the overall Hospitals Data** | |  | | | | |  |  | |  |  |
|  |  |  | | | | | | |  |  | | |  |
| **Purpose** |  | To decide the Hospital analysis process of this application | | | | | | | | | | |  |
|  |  |  | |  | | | | |  |  | |  |  |
| **Target Audience** |  | Internal Stakeholders | |  | | | | |  |  | |  |  |
|  |  |  | |  | | | | |  |  | |  |  |
| **Status** |  | Completed | |  | | | | |  |  | |  |  |
|  |  |  | |  | | | | |  |  | |  |  |
| **Role:** |  | **As a** developer | |  | | | | |  |  | |  |  |
|  |  |  |  |  | | | | |  |  | |  |  |
|  |  |  | **I want to** *<perform some task>* |  | | | | |  |  | | **so that I can** *<achieve some goal>* |  |
| . |  |  | |  | | | | |  |  | |  |  |
| **Task Description** |  | 1. Organise database factors | |  | | | | |  |  | | Easily analyse the data. |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  | 2. | Design patterns for factors |  | | | | |  |  | | Study the data. |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  | 3. | Conceptualize output parameters |  | | | | |  |  | | Process of Analyzing is directed. |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  | 4. | Priorities the important parameters |  | | | | |  |  | | Produce accurate data. |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  | 5. | Draw a map for the observations |  | | | | |  |  | | Formalize the observations. |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  | 6. | Organise the parameters |  | | | | |  |  | | Simplify analysis process. |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  | 7. | Record formulated observations |  | | | | |  |  | | Discuss with the analysis team. |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  | 8. | Correspond with Analysis hospital data |  | | | | |  |  | | Refine the observations |  |
|  |  |  |  |  | | | | |  |  | |  |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  |  | |  | | | | |  |  | |  |  |
|  |  |  | |  | | | | |  |  | |  |  |
| **Process-1** |  | **Filter out the Relevant Data** | |  | | | | |  |  | |  |  |
|  |  |  | | | | | | | | | | |  |
| **Purpose** |  | The purpose is to get detailed, relevant and correct data about hospitals. | | | | | | | | | | |  |
|  |  |  | |  | | | | |  |  | |  |  |
| **Target Audience** |  | Customers | |  | | | | |  |  | |  |  |
|  |  |  | |  | | | | |  |  | |  |  |
| **Status** |  | On-going | |  | | | | |  |  | |  |  |
|  |  |  | |  | | | | |  |  | |  |  |
| **Role:** |  | **As an** end user | |  | | | | |  |  | |  |  |
|  |  |  |  |  | | | | |  |  | |  |  |
|  |  |  | **I want to** *<perform some task>* |  | | | | |  |  | | **so that I can** *<achieve some goal>* |  |
|  |  |  | |  | | | | |  |  | |  |  |
| **Task Description** |  | 1. Find a certain hospitals | |  | | | | |  |  | | View hospitals relevant data |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  | 2. | Get a list of hospitals |  | | | | |  |  | | Select certain area for getting info |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  | 3. | Find similar hospitals in same location |  | | | | |  |  | | Collect the information of hospital |  |
|  |  |  |  |  | | | | |  |  | |  |  |
|  |  | 4. | Prioritize hospitals by rating |  | | | | |  |  | | Get best deal for the treatment. |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  |  |  |  | | | | |  |  | |  |  |
|  |  | 5. | Display hospital’s current status |  | | | | |  |  | | Take the decision for insertion. |  |
|  |  |  | |  | | | | |  |  | |  |  |
|  |  | 6. View current hospital’s availability | |  | | | | |  |  | | Decide importance of hospital data availability. |  |
|  |  | 7. Get hospital locations | |  | | | | |  |  | | See nearby hospitals |  |
|  |  | 8. Know hospitals ratings | |  | | | | |  |  | | View hospitals status |  |
|  |  | 9. Get names of nearby hospitals | |  | | | | |  |  | | Choose suitable hospitals |  |
|  |  | 10. Get whole hospitals records | |  | | | | |  |  | | Get treatment info |  |
|  |  |  | |  | | | | |  |  | |  |  |
| **Process-2** |  | **Ascertain Data Correctness** | |  | | | | |  |  | |  |  |
|  |  |  | | | | | | | | | | |  |
| **Purpose** |  | This will ensure the reliability and correctness of application. | | | | | | | | | | |  |
|  |  |  |  |  | | | | |  |  | |  |  |
| **Target Audience** |  | Users | |  | | | | |  |  | |  |  |
|  |  |  | |  | | | | |  |  | |  |  |
| **Status** |  | Completed | |  | | | | |  |  | |  |  |
|  |  |  | |  | | | | |  |  | |  |  |
| **Role:** |  | **As an** end user, developer | |  | | | | |  |  | |  |  |
|  |  |  |  |  | | | | |  |  | |  |  |
|  |  |  | **I want to** *<perform some task>* |  | | | | |  |  | | **so that I can** *<achieve some goal>* |  |
|  |  |  | |  | | | | |  |  | |  |  |
| **Task Description** |  | 1. Get hospitals data | |  | | | | |  |  | | Choose the nearby hospital |  |
|  |  | 2. | Receive exact information |  | | | | |  |  | | Use it in the application as source. |  |
|  |  |  |  |  | | | | |  |  | |  |  |
|  |  | 3. | Ensure appropriate info of the hospital |  | | | | |  |  | | Protect the hospital image. |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  | 4. | Use Hospital Data |  | | | | |  |  | | Ask Hospitals for the info |  |
|  |  |  |  |  | | | | |  |  | |  |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  | 5. | Get correct hospital location |  | | | | |  |  | | Permit for add it in database |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  | 6. | Make a precise database |  | | | | |  |  | | Use it to display on the database. |  |
|  |  | |  |  | | | | |  |  | |  |  |
|  |  | 7. | Track validation process |  | | | | |  |  | | Verify data. |  |
|  |  |  |  |  | | | | |  |  | |  |  |
|  |  | 8. | Run background checks |  | | | | |  |  | | Ensure data correctness. |  |
|  |  |  | |  | | | | |  |  | |  |  |
|  |  | 9. Know the data sources | |  | | | | |  |  | | Trust the application. |  |
|  |  | 10.Add data to database | |  | | | | |  |  | | Get whole info |  |

**USER STORIES: GOAL-2: Adding data to website**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Objective-1** |  | **Pre-process Hospitals Data** | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Purpose** |  | Perform pre-processing on data | | | | | |  |
|  |  |  |  |  |  |  |  |  |
| **Target Audience** |  |  | Customers/ Stakeholders | |  |  |  |  |
|  |  |  | |  |  |  |  |  |
| **Status** |  | On-going/ Completed | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** *<type of user>* | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  | | | | |  |  |  |  |
| **Task Description** |  |  | 1.Verify raw hospitals data |  |  |  | Ensure data correctness. |  |
|  |  |  | | |  |  | |  |
|  |  | 2.Evaluate hospitals data | |  |  | Identify types of it. | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 3.Dispose irrelevant factors |  |  |  | Eliminate unnecessary information. |  |
|  |  |  | | |  |  | |  |
|  |  | 4.Group and compare this factors | |  |  | Examine data distribution. | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 5.Associate domain knowledge gained |  |  |  | Improve performance of used methods. |  |
|  |  |  | | |  |  | |  |
|  |  | 6.Represent the domain knowledge features | |  |  | Ensure applicability of used methods. | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 7.Standardize hospital features |  |  |  | ensure equal importance to each feature |  |
|  |  |  | | |  |  | |  |
|  |  | 8.Evaluate data availability | |  |  | detect problems with high availability | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 9.Use different feature selection strategies |  |  |  | fix availability problems |  |
|  |  |  | | |  |  | |  |
|  |  | 10.Consolidate final data with features | |  |  | use it to apply methods | |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Process-1** |  | **Determine type of data is collected** | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Purpose** |  | Determining data which has been collected | | | | | |  |
|  |  |  |  |  |  |  |  |  |
| **Target Audience** |  |  | Stakeholders | |  |  |  |  |
|  |  |  | |  |  |  |  |  |
| **Status** |  | On-going | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1.Check his basic details |  |  |  | Append in database if its rights |  |
|  |  |  | | |  |  | |  |
|  |  | 2.Add hospitals data | |  |  | Append in database for more info | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 3.Check details filled by End user |  |  |  | Be sure about the data |  |
|  |  |  | | |  |  | |  |
|  |  | 4.Delete all anomalies | |  |  | Have clear database | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 5.Call database admin for big mistakes |  |  |  | Have solution for those entries |  |
|  |  |  | | |  |  | |  |
|  |  | 6.Append each hospitals category in their own table | |  |  | Have faster searching | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 7.Archive all hospitals with high ratings |  |  |  | Clear Clutter |  |
|  |  |  | | |  |  | |  |
|  |  | 8.Make a good structure | |  |  | Parse data easily | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 9.Make database correct |  |  |  | Have less redundant data |  |
|  |  |  | 10.Check remaining incorrect part of data |  |  |  | Analyze correctness |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
| **Process-2** |  |  | | **Associate hospital data on front end** | | | | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | |  |  | |  | | | | | |  | |  | |  | |  | | |  | |  |
| **Purpose** |  |  | | Use the knowledge from earlier analysis to create new features. | | | | | | | | | | | | | | | | | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
| **Target Audience** |  |  | | Internal Stakeholders | | | | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
| **Status** |  |  | | On-going | | | | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
| **Role:** |  |  | | **As a** *developer* | | | | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | |  |  | | **I want to** *<perform some task>* | | |  |  |  |  | |  |  | | | | **so that I can** *<achieve some goal>* | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
| **Task Description** |  |  | | 1.Make appropriate form of hospital data | | | | | |  |  |  |  | |  |  | | | | Suitable features to generate. | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | | 2.Generate features that are valuable | | | | | |  |  |  |  | |  |  | | | | Improve the useful methods. | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | | 3.Apply transformations on the features | | | | | |  |  |  |  | |  |  | | | | Get more information from the features. | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | | 4.Analyze transformed features | | | | | |  |  |  |  | |  |  | | | | verify transformations | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | | 5.Examine the features in dataset as a whole | | | | | |  |  |  |  | |  |  | | | | Judge the dimensionality of data. | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | | 6.Evaluate different feature selection strategies | | | | | |  |  |  |  | |  |  | | | | Choose appropriate strategy. | |  | |  |
|  |  |  | |  |  | |  | |  |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | | 7.Apply feature selection strategy to the data | | | | | |  |  |  |  | |  |  | | | | Avoid curse of availability of data. | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | | 8.Integrate generated features and methods | | | | | |  |  |  |  | |  |  | | | | Apply them to new data in the future. | |  | |  |
|  |  |  | | 9.Arrange collected data | | | | | |  |  |  |  | |  |  | | | | Add to database | |  | |  |
|  |  |  | | 10.Display as per requirement | | | | | |  |  |  |  | |  |  | | | | Get suitable info | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
| **Objective-2** |  |  | |  | **Designing Databse** | | | | |  |  |  |  | |  | |  | |  | | |  | |  |
|  |  |  | |  |  | |  | | | | | |  | | |  | | | |  | |  | |  |
| **Purpose** |  |  | |  | Analyse different suitable methods. Choose a method appropriate to hospitals data. | | | | | | | | | | | | | | | | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
| **Target Audience** |  |  | |  |  | | Customers/ Stakeholders | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | |  |  | | | | |  |  |  |  | |  | |  | |  | | |  | |  |
| **Status** |  |  | |  | On-going/ Completed | | | | |  |  |  |  | |  | |  | |  | | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
| **Role:** |  |  | |  |  | | **As a** *<type of user>* | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | |  |  | | **I want to** *<perform some task>* | | |  |  |  |  | |  |  | | | | **so that I can** *<achieve some goal>* | |  | |  |
|  |  |  | |  |  | |  | |  |  |  |  |  | |  |  | | | |  | |  | |  |
| **Task Description** |  |  | |  |  | | 1.Access data in proper format | | |  |  |  |  | |  | |  | | Use it to choose a proper method. | | |  | |  |
|  |  |  | |  |  | | | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | |  | 2.Access different methods | | | | |  |  |  |  | |  |  | | | | Utilize them for making predictions. | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | |  |  | | 3.Apply a method and store its results | | |  |  |  |  | |  |  | | | | Access the results for further analysis. | |  | |  |
|  |  |  | |  |  | | | | |  |  |  |  | |  | |  | |  | | |  | |  |
|  |  |  | |  | 4.Cross-validate and analyse method | | | | |  |  |  |  | |  | |  | | Select them based on their quality. | | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | |  |  | | 5.Verify and overview analysis | | |  |  |  |  | |  |  | | | | Select optimal method | |  | |  |
|  |  |  | |  |  | | | | |  |  |  |  | |  | |  | |  | | |  | |  |
|  |  |  | |  |  | |  | |  |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | |  |  | | 6.Modify the data | | |  |  |  |  | |  | |  | | Analyse the changes caused by them. | | |  | |  |
|  |  |  | |  |  | | | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | |  | 7.Cross-validate changed data results | | | | |  |  |  |  | |  |  | | | | Choose the optimal parameters. | |  | |  |
|  |  |  | |  | 8.Insert after validation | | | | |  |  |  |  | |  |  | | | | See all the info | |  | |  |
|  |  |  | |  | 9.Provide proper solution as require | | | | |  |  |  |  | |  |  | | | | Apply it in application | |  | |  |
|  |  |  | |  | 10.Display data as per require | | | | |  |  |  |  | |  |  | | | | Check it provides correct info | |  | |  |
|  |  |  | |  |  | |  | | |  |  |  |  | |  |  | | | |  | |  | |  |
|  |  |  | |  |  | | | | |  |  |  |  | |  | |  | |  | | |  | |  |
|  |  | | | | | | | |  |  |  |  |  | |  |  | | | |  | |  | |  |
| **Process-1** | | |  | | |  | | **Associate field of data collected and data to insert** | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | |  | | | | | |  | | | |  |  | |  | |  | |
| **Purpose** | | |  | | |  | | This will pre-process data and verify it | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | |  | | | | | |  | | | |  |  | |  | |  | |
| **Target Audience** | | |  | | |  | | Internal Stakeholders | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | |  | | | | | |  | | | |  |  | |  | |  | |
| **Status** | | |  | | |  | | On-going | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | |  | | | | | |  | | | |  |  | |  | |  | |
| **Role:** | | |  | | |  | | As a developer | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | |  | | | | | |  | | | |  |  | |  | |  | |
|  | | |  | | |  | | **I want to** *<perform some task>* | | | | | |  | | | |  |  | | **so that I can** *<achieve some goal>* | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
| **Task Description** | | |  | | |  | | 1.Verify raw hospitals data | | | | | |  | | | |  |  | | Ensure data correctness. | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | | 2.Evaluate hospitals data | | | | | |  | | | |  |  | | Identify outliers. | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | | 3.Dispose irrelevant data | | | | | |  | | | |  |  | | Eliminate unnecessary information. | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | | 4.Associate domain knowledge gained | | | | | |  | | | |  |  | | Improve performance of statistical methods. | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | | 5.Represent the domain knowledge features | | | | | |  | | | |  |  | | Ensure applicability of statistical methods. | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | | 6.Evaluate quick data availability | | | | | |  | | | |  |  | | detect problems with high availability | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | | 7.Use different feature selection strategies | | | | | |  | | | |  |  | | fix availability problems | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | | 8.Consolidate final data with features | | | | | |  | | | |  |  | | use suitable methods | |  | |
|  | | |  | | |  | | 9.Verify all collected data | | | | | |  | | | |  |  | | Store into system | |  | |
|  | | |  | | |  | | 10.Display only necessary data | | | | | |  | | | |  |  | | Get better application feedback | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
| **Process-2** | | |  | | |  | | **Add collected data to respective field** | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | |  | | | | | | | | | | | | | | |  | |
| **Purpose** | | |  | | |  | | Related data will be appeared according to requirement | | | | | | | | | | | | | | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
| **Target Audience** | | |  | | |  | | Customers | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
| **Status** | | |  | | |  | | On-going/ Completed | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
| **Role:** | | |  | | |  | | **As a** *developer* | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | | **I want to** *<perform some task>* | | | | | |  | | | |  |  | | **so that I can** *<achieve some goal>* | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
| **Task Description** | | |  | | |  | | 1. Acquire and analyze hospital profiles | | | | | |  | | | |  |  | | View profiles | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | | 2. Access hospital profiles | | | | | |  | | | |  |  | | View all hospitals data | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | | 3. Acquire hospitals Data | | | | | |  | | | |  |  | | Work on removing inconsistencies | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | | 4. Access the hospitals Data | | | | | |  | | | |  |  | | Validate it | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | | 5. Feed Data to the model | | | | | |  | | | |  |  | | So that anomalies are removed | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | | 6. View all the data | | | | | |  | | | |  |  | | View all data | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | |  | | | | | | | | | |  |  | |  | |  | |
|  | | |  | | |  | | 7. Edit hospital profiles | | | | | |  | | | |  |  | | Display correct data | |  | |
|  | | |  | | |  | | 8.Store it again properly | | | | | |  | | | |  |  | | Use manual method | |  | |
|  | | |  | | |  | | 9.Store feedbacks of users | | | | | |  | | | |  |  | | Analyze the correctness | |  | |
|  | | |  | | |  | | 10.Insert new data of hospitals | | | | | |  | | | |  |  | | Provide more hospitals facilities | |  | |

**USER STORIES: GOAL-3: Building User Profile**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Process-1** |  |  | **Standardize the format of Query** | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Purpose** |  |  | This will standardize the user requirements. | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Target Audience** |  |  | Internal Stakeholders | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Status** |  |  | On-going | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** database manager | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1. decide a certain query format |  |  |  | Process queries |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 2. get query parameters |  |  |  | Know which data to retrieve |  |
|  |  |  |  | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 3. find doctors detail |  |  |  | Follow the normal activities |  |
|  |  |  | 3 | |  |  |  |  |
|  |  |  | 4. determine doctors information |  |  |  | Find hospital information. |  |
|  |  |  |  | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 5. check if all factors are non-null |  |  |  | Display them |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 6. match data types to output |  |  |  | Use proper format |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 7. pass arguments between interfaces |  |  |  | Access database |  |
|  |  |  | 8.Check correctness of data |  |  |  | Add it to application |  |
|  |  |  | 9.Determine hospital locations |  |  |  | Check whether it is right |  |
|  |  |  | 10.Display data from the database |  |  |  | Verify all data is correct |  |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Process-1** |  |  | **Data associated with each user is collected**. | | | |  |  |  |  |
|  |  |  |  |  | |  |  |  |  |  |
| **Purpose** |  |  | Indicate purpose of the process here in 3-4 statements. | | | | | | |  |
|  |  |  |  |  | |  |  |  |  |  |
| **Target Audience** |  |  |  | Stakeholders | | |  |  |  |  |
|  |  |  |  | | |  |  |  |  |  |
| **Status** |  |  | On-going | | | |  |  |  |  |
|  |  |  |  |  | |  |  |  |  |  |
| **Role:** |  |  |  | **As a** *Developer* | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  | | | |  | |  |  |  |  |
| **Task Description** |  |  | | 1. | Generate Users data |  |  |  | Use it for making hospitals profiles |  |
|  |  | | | |  | |  |  | |  |
|  |  | | 2. | | Find hospitals data |  |  | Sort and categorize data | |  |
|  |  | | | |  | |  |  |  |  |
|  |  |  | | 3. | Collect relevant data |  |  |  | Remove unnecessary data |  |
|  |  | | | |  | |  |  | |  |
|  |  | | 4. | | Sort relevant hospitals data |  |  | Categorize Accordingly | |  |
|  |  | | | |  | |  |  |  |  |
|  |  |  | | 5. | Remove inconsistencies |  |  |  | Display only correct data |  |
|  |  | | | |  | |  |  | |  |
|  |  | | 6. | | Make different categories of data |  |  | Search hospital info easily | |  |
|  |  | | | |  | |  |  |  |  |
|  |  |  | | 7. | Consider only relevant Users data |  |  |  | Remove all unnecessary data |  |
|  |  | | | |  | |  |  | |  |
|  |  | | 8. | | Add data to Users profile |  |  | Display hospitals Profile | |  |
|  |  | | | |  | |  |  |  |  |
|  |  |  | | 9. | Update Users profiles |  |  |  | Include all the latest data |  |
|  |  |  |  | | | |  |  | |  |
|  |  |  | 10.Display overall data within profiles | | |  |  | Update hospitals profiles to display | |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Process-2** |  | **Data verification is done according to the database type.** | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Purpose** |  | Indicate purpose of the objective here in 3-4 statements. | | | | | |  |
|  |  |  |  |  |  |  |  |  |
| **Target Audience** |  |  | Stakeholders | |  |  |  |  |
|  |  |  | |  |  |  |  |  |
| **Status** |  | On-going | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1.Check his basic details |  |  |  | Append in database if its rights |  |
|  |  |  | | |  |  | |  |
|  |  | 2.Add hospitals data | |  |  | Append in database for more info | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 3.Check details filled by End user |  |  |  | Be sure about the data |  |
|  |  |  | | |  |  | |  |
|  |  | 4.Delete all anomalies | |  |  | Have clear database | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 5.Call database admin for big mistakes |  |  |  | Have solution for those entries |  |
|  |  |  | | |  |  | |  |
|  |  | 6.Append each hospitals category in their own table | |  |  | Have faster searching | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 7.Archive all hospitals with high ratings |  |  |  | Clear Clutter |  |
|  |  |  | | |  |  | |  |
|  |  | 8.Make a good structure | |  |  | Parse data easily | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 9.Make database correct |  |  |  | Have less redundant data |  |
|  |  |  | 10.Check remaining incorrect part of data |  |  |  | Analyze correctness |  |
|  |  |  | | |  |  | |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Objective-2** |  | **Associate collected data** | | |  |  |  |  |
|  |  |  | |  |  |  |  |  |
| **Purpose** |  | According to customer location give the suitable nearby hospital to the patient | | | | | |  |
|  |  |  | |  |  |  |  |  |
| **Target Audience** |  | Customers | | |  |  |  |  |
|  |  |  | |  |  |  |  |  |
| **Status** |  | On-going | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Role:** |  | **As a** *end user* | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  | 1. | Access all doctors profiles |  |  |  | Use all hospitals data |  |
|  |  |  | | |  |  |  |  |
|  |  | 2. Acquire all doctors data | |  |  |  | Remove inconsistencies from the data |  |
|  |  | |  | |  |  |  |  |
|  |  | 3. | Validate the data |  |  |  | Erase all the errors from data |  |
|  |  | |  | |  |  |  |  |
|  |  | 4. | Correct the errors in the data |  |  |  | Generate value with ease |  |
|  |  |  |  |  |  |  |  |  |
|  |  | 5. | View all factors of the hospitals |  |  |  | Give points to the factors |  |
|  |  | |  | |  |  |  |  |
|  |  |  | | |  |  |  |  |
|  |  | 6. Feed data to the model | |  |  |  | Use the data in the formula |  |
|  |  | |  | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  | 7. | Generate data of hospitals |  |  |  | Display it to the user |  |
|  |  |  | | |  |  |  |  |
|  |  | 8.Display generated data | |  |  |  | Provide the users a correct estimate data |  |
|  |  | 9.Check or validate records | |  |  |  | Provide it to users |  |
|  |  | 10.Display only nearby hospitals | |  |  |  | Choose suitable one |  |
|  |  |  | |  |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | |  |  |  |  |
| **Process-1** |  |  | Make connection each user profile to the database. | |  |  |  |  |
|  |  |  |  | | | | |  |
| **Purpose** |  |  | Related data will be appeared according to area. | | | | |  |
|  |  |  |  | |  |  |  |  |
| **Target Audience** |  |  | Customers | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
| **Status** |  |  | On-going/ Completed | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
| **Role:** |  |  | **As a** *developer* | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1. Acquire and analyze doctor profiles |  |  |  | View profiles |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 2. Access doctor profiles |  |  |  | View all hospitals data |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 3. Acquire doctor Data |  |  |  | Work on removing inconsistencies |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 4. Access the patients Data |  |  |  | Validate it |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 5. Feed Data to the model |  |  |  | So that anomalies are removed |  |
|  |  |  |  | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 6. View all the data |  |  |  | View all data |  |
|  |  |  |  | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 7. Edit hospital profiles |  |  |  | Display correct data |  |
|  |  |  | 8.Store it again properly |  |  |  | Use manual method |  |
|  |  |  | 9.Store feedbacks of users |  |  |  | Analyze the correctness |  |
|  |  |  | 10.Insert new data of hospital |  |  |  | Provide more hospitals facilities |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Process-2** |  |  | **Update the user data accordingly in the database.** | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Purpose** |  |  | This will standardize the user requirements. | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Target Audience** |  |  | Internal Stakeholders | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Status** |  |  | On-going | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** database manager | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1. decide a certain query format |  |  |  | Process queries |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 2. get query parameters |  |  |  | Know which data to retrieve |  |
|  |  |  |  | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 3. update database |  |  |  | Follow the normal activities |  |
|  |  |  | 3 | |  |  |  |  |
|  |  |  | 4. determine treatment |  |  |  | Find information |  |
|  |  |  |  | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 5. check if all factors are non-null |  |  |  | Display them |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 6. match data types to output |  |  |  | Use proper format |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 7. pass arguments between interfaces |  |  |  | Access database |  |
|  |  |  | 8.Check correctness of data |  |  |  | Add it to application |  |
|  |  |  | 9.Determine hospital locations |  |  |  | Check whether it is right |  |
|  |  |  | 10.Display data from the database |  |  |  | Verify all data is correct |  |
|  |  |  |  | |  |  |  |  |
| **Process-2** |  |  | **Execute and display the suitable data** | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
| **Purpose** |  |  | This will enable the outcome of the application. | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
| **Target Audience** |  |  | Internal Stakeholders | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
| **Status** |  |  | On-going | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
| **Role:** |  |  | **As a** *developer* | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1.Access formatted user queries |  |  |  | Process and get related hospitals data |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 2.Extract hospitals data from query |  |  |  | Use it for getting suitable hospitals info |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | 3.Validate extracted hospitals data |  |  |  | Ensure it fits methods requirements |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 4.Detect missing data |  |  |  | Display input error. |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 5.Normalise input data |  |  |  | Search database |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 6.Feed data to the method |  |  |  | Begin execution |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 7.Extract output from the method |  |  |  | Process query |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 8.Verify proper output |  |  |  | Validate application |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | 9.Meet the user requirements |  |  |  | Meet the objective |  |
|  |  |  | 10.Work it properly |  |  |  | Cross check all working |  |

**USER STORIES: GOAL4: Adding Consulted data**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Objective-1** |  |  | **Book an appointment** | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Purpose** |  |  | Generate appointment as per required by patient | | | | | |  |
|  |  |  |  |  |  |  |  |  |  |
| **Target Audience** |  |  |  | Stakeholders | |  |  |  |  |
|  |  |  |  | |  |  |  |  |  |
| **Status** |  |  | On-going | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Role:** |  |  |  | **As a** *developer* | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  |  |  |  |  |  |  |
| **Task Description** |  |  |  | 1.Generate treatments data |  |  |  | Get hospitals quality |  |
|  |  |  |  | | |  |  |  |  |
|  |  |  | 2.Generate data as per requirements | |  |  | Make a better database | |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 3.Find the Goals |  |  |  | judge his forward performance |  |
|  |  |  |  | | |  |  | |  |
|  |  |  | 4.Check treatment data | |  |  | tell how stylish it is | |  |
|  |  |  |  |  | |  |  |  |  |
|  |  |  |  | 5.Find quick availability |  |  |  | See how quick data will get |  |
|  |  |  |  | | |  |  | |  |
|  |  |  | 6.Tell structure | |  |  | Show Quantitative data | |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 7.Use Past Achievements |  |  |  | Show past performance |  |
|  |  |  |  | | |  |  | |  |
|  |  |  | 8.Check hospitals previous rating | |  |  | See Present performance | |  |
|  |  |  |  |  | |  |  |  |  |
|  |  |  |  | 9.Check current status |  |  |  | Decide for quick availability |  |
|  |  |  |  | | |  |  | |  |
|  |  |  | 10.Collect other Misc. data | |  |  | Show intricate data | |  |
|  |  |  |  | |  |  |  | |  |
|  |  |  |  | |  |  |  | |  |
|  |  |  |  | |  |  |  | |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Process-1** |  |  | **Selection of hospital department** | | | |  |  |  |  |
|  |  |  |  |  | |  |  |  |  |  |
| **Purpose** |  |  | Selecting appropriate department of hospital | | | | | | |  |
|  |  |  |  |  | |  |  |  |  |  |
| **Target Audience** |  |  |  | Stakeholders | | |  |  |  |  |
|  |  |  |  | | |  |  |  |  |  |
| **Status** |  |  | On-going | | | |  |  |  |  |
|  |  |  |  |  | |  |  |  |  |  |
| **Role:** |  |  |  | **As a** *Developer* | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  | | | |  | |  |  |  |  |
| **Task Description** |  |  | | 1. | Generate hospitals data |  |  |  | Use it for making hospitals profiles |  |
|  |  | | | |  | |  |  | |  |
|  |  | | 2. | | Find hospitals data |  |  | Sort and categorize data | |  |
|  |  | | | |  | |  |  |  |  |
|  |  |  | | 3. | Collect relevant data |  |  |  | Remove unnecessary data |  |
|  |  | | | |  | |  |  | |  |
|  |  | | 4. | | Sort relevant hospitals data |  |  | Categorize Accordingly | |  |
|  |  | | | |  | |  |  |  |  |
|  |  |  | | 5. | Remove da inconsistencies |  |  |  | Display only correct data |  |
|  |  | | | |  | |  |  | |  |
|  |  | | 6. | | Make different categories of data |  |  | Search hospital info easily | |  |
|  |  | | | |  | |  |  |  |  |
|  |  |  | | 7. | Consider only relevant hospitals data |  |  |  | Remove all unnecessary data |  |
|  |  | | | |  | |  |  | |  |
|  |  | | 8. | | Add data to hospitals profile |  |  | Display hospitals Profile | |  |
|  |  | | | |  | |  |  |  |  |
|  |  |  | | 9. | Update hospitals profiles |  |  |  | Include all the latest data |  |
|  |  |  |  | | | |  |  | |  |
|  |  |  | 10.Display overall data within profiles | | |  |  | Update hospitals profiles to display | |  |
|  |  |  |  | | |  |  |  | |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Process-2** |  | **Appointment generation w.r.t date and time** | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Purpose** |  | Appointment generation according to patients information | | | | | |  |
|  |  |  |  |  |  |  |  |  |
| **Target Audience** |  |  | Stakeholders | |  |  |  |  |
|  |  |  | |  |  |  |  |  |
| **Status** |  | On-going | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** *Developer* | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1.Collect data using different sources |  |  |  | Get general data for each hospitals |  |
|  |  |  | | |  |  | |  |
|  |  | 2.Find Performance records | |  |  | Get hospitals Quality | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 3.Find best treatments hospitals |  |  |  | So that manager can look at them also |  |
|  |  |  | | |  |  | |  |
|  |  | 4.Check types of treatments | |  |  | Show this data also | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 5.Check All non-basic details |  |  |  | Show more details about hospitals |  |
|  |  |  | | |  |  | |  |
|  |  | 6.Write more details about hospitals | |  |  | See this records that are newly added | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 7.Show all time and dates available |  |  |  | Book appointment |  |
|  |  |  | | |  |  | |  |
|  |  | 8.Use internet data also | |  |  | Show peoples previous feedback | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | | |  |  | |  |
|  |  | 10.Find data as per users date and time given | |  |  | See how quick it display | |  |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Objective-2** |  |  | **Consult Doctor** | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| **Purpose** |  |  | To recognize user input. | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| **Target Audience** |  |  | Customers | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| **Status** |  |  | On-going | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** user | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |  |  |  |
|  |  |  |  | |  |  |  |  |  |  |  |
| **Task Description** |  |  | 1. find and add large number of doctors |  |  |  | Make availability easily. |  |  |  |  |
|  |  |  |  | |  |  |  |  |  |  |  |
|  |  |  | 2. maintain all names of doctors in database |  |  |  | Easily find the names. |  |  |  |  |
|  |  |  |  | |  |  |  |  |  |  |  |
|  |  |  | 3. extract hospital information |  |  |  | Use it for the treatment of patients. |  |  |  |  |
|  |  |  |  | |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 4. Giving consultancy to patient |  |  |  | Keep track of patient |  |  |  |  |
|  |  |  |  | |  |  |  |  |  |  |  |
|  |  |  | 5. analyse patient records |  |  |  | Make decision on treatment |  |  |  |  |
|  |  |  |  | |  |  |  |  |  |  |  |
|  |  |  |  | |  |  |  |  |  |  |  |
|  |  |  |  | |  |  |  |  |  |  |  |
|  |  |  | 6.Inspect attributes by locations |  |  |  | Decide importance of correct location. |  |  |  |  |
|  |  |  |  | |  |  |  |  |  |  |  |
|  |  |  | 7.Associate insights gained with data |  |  |  | Decide better methods. |  |  |  |  |
|  |  |  | 8.Focus on only requirements of users |  |  |  | Check their requirements regularly |  |  |  |  |
|  |  |  | 9.Extract patient details |  |  |  | Check history of patient |  |  |  |  |
|  |  |  | 10.Display overall data of hospitals |  |  |  | Easily select suitable hospital |  |  |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Process-1** |  | **Getting patient details and provide necessary treatment** | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Purpose** |  | Hospital | | | | | |  |
|  |  |  |  |  |  |  |  |  |
| **Target Audience** |  |  | Stakeholders | |  |  |  |  |
|  |  |  | |  |  |  |  |  |
| **Status** |  | On-going | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** *User* | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1.Make a new table only for data |  |  |  | Use them for main purpose of the system |  |
|  |  |  | | |  |  |  |  |
|  |  | 2.Show all details of patients on page | |  |  | Able to take decision | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 3.Display the already stored data |  |  |  | Determine newly added data |  |
|  |  |  | | |  |  | |  |
|  |  | 4.Show all data required for users | |  |  | Tell development team about requirements | |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | 5.Tell data collection duration |  |  |  | Make user think about this hospitals |  |
|  |  |  | | |  |  | |  |
|  |  | 6.Show ratings of hospitals | |  |  | Make team discuss about this | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 7.Show types of treatments |  |  |  | Show rating of it |  |
|  |  |  | | |  |  | |  |
|  |  | 8.Show current ratings | |  |  | Tell manager about current ratings of hospitals | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 9.Provide treatment |  |  |  | Tell manager about changes if required |  |
|  |  |  | | |  |  | |  |
|  |  | 10.Show patient history | |  |  | To give brief analysis | |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Process-2** |  | **Adding medical report to database** | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Purpose** |  | Indicate purpose of the Process here in 3-4 statements. | | | | | |  |
|  |  |  |  |  |  |  |  |  |
| **Target Audience** |  |  | Stakeholders | |  |  |  |  |
|  |  |  | |  |  |  |  |  |
| **Status** |  | On-going | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** *Developers* | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  |  |  |  |  |  |
| **Task Description** |  |  | 1.Insert basic details in main table |  |  |  | Use it frequently |  |
|  |  |  | | |  |  | |  |
|  |  | 2.Insert Hospitals data in different category | |  |  | Sort them out easily | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 3.Insert rankings in another table |  |  |  | Show records of hospitals treatment |  |
|  |  |  | | |  |  | |  |
|  |  | 4.Insert data about hospitals | |  |  | User can see them for more info | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 5.Insert data in database |  |  |  | Show as per requirements |  |
|  |  |  | | |  |  | |  |
|  |  | 6.Update Current details in database | |  |  | Use the newest records | |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | 7.Use only stats which will affect prediction |  |  |  | Have better prediction |  |
|  |  |  | | |  |  | |  |
|  |  | 8.Have highest performance data for the method | |  |  | Have Highest accuracy | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 9.Make chart for the predicted data |  |  |  | See how close they are to the real data |  |
|  |  |  | | |  |  | |  |
|  |  | 10.Use Dimensional reductionist | |  |  | Delete irrelevant data from prediction | |  |

**USER STORIES: GOAL5: Availability prescription for pharmacy.**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Objective -1** |  | **Getting patient details** | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Purpose** |  | For giving appropriate medicine to patient | | | | | |  |
|  |  |  |  |  |  |  |  |  |
| **Target Audience** |  |  | Internal Stakeholders | |  |  |  |  |
|  |  |  | |  |  |  |  |  |
| **Status** |  | On-going | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1.Access different methods |  |  |  | Use them for making choice. |  |
|  |  |  | | |  |  | |  |
|  |  | 2.Access data in proper format | |  |  | Feed it to the methods. | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | | |  |  | |  |
|  |  | 3.Use different methods | |  |  | Compare their usefulness. | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 4.Apply a methods and store its results |  |  |  | Access them in further assessment. |  |
|  |  |  | | |  |  | |  |
|  |  | 5.Analyse results of different methods | |  |  | Keep only relevant methods. | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 6.Perform cross-validation on methods |  |  |  | Test their ability to generalize. |  |
|  |  |  | | |  |  | |  |
|  |  | 7.Analyse cross-validation results for methods | |  |  | Select them based on their quality. | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 8.Validate the output of selected methods |  |  |  | Ensure their correctness. |  |
|  |  |  | | |  |  | |  |
|  |  | 9.Overview the analysis | |  |  | Converge on an optimal method for the data. | |  |
|  |  | 10.Use only necessary data | |  |  | Store into database | |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Process-1** |  |  |  | **Fetching relevant details about patient** | | |  |  |  |  |  |  | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | | |  |  |  |
| **Purpose** |  |  |  | Integrate data patient wise. | | |  |  |  |  |  |  | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | | |  |  |  |
| **Target Audience** |  |  |  | Customers/ Stakeholders | | |  |  |  |  |  |  | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | | |  |  |  |
| **Status** |  |  |  | On-going/ Completed | | |  |  |  |  |  |  | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | | |  |  |  |
| **Role:** |  |  |  | **As a** *developer* | | |  |  |  |  |  |  | | |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | | |  |  |  |
|  |  |  |  |  | **I want to** *<perform some task>* |  |  |  |  |  |  |  | | | **so that I can** *<achieve some goal>* |  |  |
|  |  |  |  |  |  | |  |  |  |  |  | |  |  | |  |  |
| **Task Description** |  |  |  | 1.Fetch formatted patient data | |  |  |  | Use it for further process. | | | | | | |  |  |
|  |  |  |  |  |  | |  |  | |  |  |  | | |  |  |  |
|  |  |  |  | 2.List all patient list | |  |  | Choose suitable patient. | | | | | | | |  |  |
|  |  |  |  |  |  | |  |  |  |  |  |  | | |  |  |  |
|  |  |  |  | 3.Keep only relevant data | |  |  |  | Eliminate unnecessary information. | | | | | | |  |  |
|  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  |
|  |  |  |  | 4.Verify consistency of selected factors | |  |  | Prevent problems affecting further process. | | | | | | | |  |  |
|  |  |  |  |  |  | |  |  |  |  |  |  | | |  |  |  |
|  |  |  |  | 5.Transform the information | |  |  |  | Formulate data that are more relevant. | | | | | | |  |  |
|  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  |
|  |  |  |  | 6.Compare factors between hospitals | |  |  | Decide what factors are important. | | | | | | | |  |  |
|  |  |  |  |  |  | |  |  |  |  |  |  | | |  |  |  |
|  |  |  |  | 7.Inspect factors by patients requirement | |  |  |  | Analyse important requirement. | | | | | | |  |  |
|  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  |
|  |  |  |  |  |  | |  |  |  |  |  |  | | |  |  |  |
|  |  |  |  | 8.Inspecfactors by medicine | |  |  |  | Check for medicine required | | | | | | |  |  |
|  |  |  |  |  |  | |  |  | |  |  | |  |  | |  |  |
|  |  |  |  | 9.Associate insights gained with data | |  |  | Decide better and useful method. | | | | | | | |  |  |
|  |  |  |  | 10.Display all data of hospitals | |  |  | Decide whether it work properly or not | | | | | | | |  |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Process-2** |  | **Getting medical prescription obtained by doctors consultancy** | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Purpose** |  | Medical prescription obtained by doctors consultancy | | | | | |  |
|  |  |  |  |  |  |  |  |  |
| **Target Audience** |  |  | Internal Stakeholders | |  |  |  |  |
|  |  |  | |  |  |  |  |  |
| **Status** |  | On-going | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1.Access database |  |  |  | Use them for making choice. |  |
|  |  |  | | |  |  | |  |
|  |  | 2.Access data in proper format | |  |  | Feed it to the methods. | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | | |  |  | |  |
|  |  | 3.Use different methods | |  |  | Compare their usefulness. | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 4.Apply login information |  |  |  | Access information |  |
|  |  |  | | |  |  | |  |
|  |  | 5.Analyse prescription | |  |  | Give relevant medicine | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 6.Perform appropriate action |  |  |  | Test their ability to generalize. |  |
|  |  |  | | |  |  | |  |
|  |  | 7.Analyse cross-validation results for methods | |  |  | Select them based on their quality. | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 8.Update database |  |  |  | Ensure their correctness. |  |
|  |  |  | | |  |  | |  |
|  |  | 9.Overview the analysis | |  |  | Converge on an optimal method for the data. | |  |
|  |  | 10.Use only necessary data | |  |  | Store into database | |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Objective -2** |  | **Reading database of each user** | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Purpose** |  | Medical action are performed in this stage | | | | | |  |
|  |  |  |  |  |  |  |  |  |
| **Target Audience** |  |  | Internal Stakeholders | |  |  |  |  |
|  |  |  | |  |  |  |  |  |
| **Status** |  | On-going | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1.Access database |  |  |  | Use them for |  |
|  |  |  | | |  |  | |  |
|  |  | 2.Access data in proper format | |  |  | Feed it to the methods. | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | | |  |  | |  |
|  |  | 3.Use different methods | |  |  | Compare their usefulness. | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 4.Apply a login information |  |  |  | Access them in further assessment. |  |
|  |  |  | | |  |  | |  |
|  |  | 5.Provide relevant data into it | |  |  | Keep only relevant methods. | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 6.Provide medicine to pharmacist |  |  |  | Test their ability to generalize. |  |
|  |  |  | | |  |  | |  |
|  |  | 7.Analyse cross-validation results for methods | |  |  | Select them based on their quality. | |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 8.Access medicine name |  |  |  | Ensure to give proper medicine |  |
|  |  |  | | |  |  | |  |
|  |  | 9.Overview the analysis | |  |  | Converge on an optimal method for the data. | |  |
|  |  | 10.Use only necessary data | |  |  | Store into database | |  |
|  |  |  | |  |  |  | |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Process-1** |  | **Database availability of each consulted patient.** | |  |  |  |  |  |
|  |  |  | | | | | |  |
| **Purpose** |  | The purpose is to get detailed, relevant and correct data about hospitals. | | | | | |  |
|  |  |  | |  |  |  |  |  |
| **Target Audience** |  | Customers | |  |  |  |  |  |
|  |  |  | |  |  |  |  |  |
| **Status** |  | On-going | |  |  |  |  |  |
|  |  |  | |  |  |  |  |  |
| **Role:** |  | **As an** end user | |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  | |  |  |  |  |  |
| **Task Description** |  | 1. Find a certain patient | |  |  |  | View patients relevant data |  |
|  |  | |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |
|  |  | 2. | Get a list of patients |  |  |  | Select certain area for getting info |  |
|  |  | |  |  |  |  |  |  |
|  |  | 3. | Find similar patient in same location |  |  |  | Collect the information of hospital |  |
|  |  |  |  |  |  |  |  |  |
|  |  | 4. | Prioritize medicines by rating |  |  |  | Get best deal for the treatment. |  |
|  |  | |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |
|  |  | |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  | 5. | Display medicines current status |  |  |  | Take the decision for insertion. |  |
|  |  |  | |  |  |  |  |  |
|  |  | 6. View current medicines availability | |  |  |  | Decide importance of patient data availability. |  |
|  |  | 7. Get hospital locations | |  |  |  | See nearby hospitals |  |
|  |  | 8. Know medicine | |  |  |  | View medicines status |  |
|  |  | 9. Get names of medicines | |  |  |  | Choose suitable medicine |  |
|  |  | 10. Get whole patients records | |  |  |  | Get treatment info |  |
|  |  |  | |  |  |  |  |  |

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**USER STORIES: GOAL-6: Feedback Integration**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Objective-1** |  |  | **Generate feedback mechanism** | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Purpose** |  |  | It is for taking a feedback from the user regarding the system. Helps in determining if there are | | | | |  |
|  |  |  | bugs or if any improvements can be made. | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Target Audience** |  |  | Customers/ Stakeholders | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Status** |  |  | On-going/ Completed | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1. Create form for feedback |  |  |  | Get user feedback for the application |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 2. Acquire user feedback |  |  |  | Access the feedback |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 3.Access user feedback |  |  |  | Store the feedback for further use |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 4. Store user feedback |  |  |  | Process the queries |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 5. Process feedback |  |  |  | Determine the next steps |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 6. Determine feedback response |  |  |  | apply changes in system |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 7. Apply necessary changes |  |  |  | Fix bugs or make necessary improvements |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 8.Update the system |  |  |  | Make it read for release |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 9.Re-release software |  |  |  | Provide updates system for use |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 10. Generate a feedback mechanism |  |  |  | Receive feedback from users |  |
|  |  |  |  | |  |  |  |  |
| **Process-1** |  |  | **Assess the User feedback** | |  |  |  |  |
|  |  |  |  | | | | |  |
| **Purpose** |  |  | To know if the feedback given by the user is relevant and if the changes to be made are | | | | |  |
|  |  |  | necessary to the system. | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
| **Target Audience** |  |  | Customers/ Stakeholders | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
| **Status** |  |  | On-going/ Completed | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
| **Role:** |  |  | **As a** *developer* | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1.Generate a feedback mechanism |  |  |  | Take action on the feedback given by the |  |
|  |  |  |  |  |  |  | User |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 2.Create a from for feedback |  |  |  | Get user feedback regarding the system |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 3.Acquire User feedback from the form |  |  |  | Store it and have access to it |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 4.Store user feedback |  |  |  | Check it and take necessary steps |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 5. Check if feedback is valid |  |  |  | Know what further steps are to be taken |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 6.Validate feedback |  |  |  | Know if changes suggested are important |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 7.Check if the changes in the given feedback are |  |  |  | Understand if changes are to be made or |  |
|  |  |  | necessary |  |  |  | not |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 8. Assess user feedback |  |  |  | Know what changes are to made |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | 9. Make changes if necessary |  |  |  | Keep system updates |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 10. Update the system |  |  |  | Re-release the software with necessary |  |
|  |  |  |  |  |  |  | changes |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Process-2** |  |  | **Process User Feedback** | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Purpose** |  |  | Helps to determine whether the feedback is genuine and if the changes are necessary to be | | | | |  |
|  |  |  | made. And update the application data | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Target Audience** |  |  | Customers/ Stakeholders | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Status** |  |  | On-going/ Completed | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1.Generate a feedback mechanism |  |  |  | Take action on the user feedback |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 2.Create a form for feedback |  |  |  | Get user feedback regarding the system |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 3.Acquire User feedback |  |  |  | Store it and have access to it |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 4.Have access to the feedback |  |  |  | Check it and take necessary steps |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 5.Check the feedback |  |  |  | Know what further steps are to be taken |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 6.Validate user feedback |  |  |  | Know if changes suggested are important |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 7.Check if changes are necessary |  |  |  | Understand if changes are to be made. |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 8.Finalise the changes |  |  |  | Get it approved by the rest of the team |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 9.Get it approved by the team |  |  |  | Make necessary changes to the system |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 10.Process the feedback |  |  |  | Keep the system updated |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Objective-2** |  |  | **Apply improvement steps** | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Purpose** |  |  | This will help to update the application with the right changes needed. | | | | |  |
|  |  |  |  |  |  |  |  |  |
| **Target Audience** |  |  | Customers/ Stakeholders | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Status** |  |  | On-going/ Completed | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1.Create the feedback form |  |  |  | Receive feedback from the user |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 2.Get feedback from the user |  |  |  | Access, it and apply relevant changes |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 3.Access the user feedback |  |  |  | Process the feedback |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 4.Process the user feedback |  |  |  | Know what response is to be given to it |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | 5. Determine feedback response |  |  |  | Understand what changes are to be made |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 6. Analyse changes required |  |  |  | Check if they are necessary |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | 7. Finalise the changes to be made |  |  |  | Get it approved from the rest of the team |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 8. Get it approved from the team |  |  |  | Make necessary changes with everybody’s |  |
|  |  |  |  |  |  |  | consent |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 9. Make changes in the system |  |  |  | Apply it to the system and update it |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 10. Apply improvement changes |  |  |  | Keep the software up-to-date |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Process-1** |  |  | **Determine the Feedback Response** | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Purpose** |  |  | Know what is to be done with the feedback. If feedback is genuine changes are made and if not, | | | | |  |
|  |  |  | a different response is made. | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Target Audience** |  |  | Customers/ Stakeholders | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Status** |  |  | On-going/ Completed | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1.Create a feedback mechanism |  |  |  | Take action on the feedback given by the |  |
|  |  |  |  |  |  |  | user |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 2.Create a form for generating feedback |  |  |  | Receive feedback from the user |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 3.Acquire the feedback from the user |  |  |  | Store it and apply relevant changes |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 4.Storethe feedback regularly |  |  |  | Access the feedback when required |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 5.Access the feedback |  |  |  | check the user feedback |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 6. Check the feedback |  |  |  | So that it can be validated |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 7. Validate the feedback |  |  |  | Process it for further changes |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 8. Process the feedback |  |  |  | Determine what response is to made |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 9. Determine Feedback response. |  |  |  | Understand what changes are to be made to |  |
|  |  |  |  |  |  |  | the system |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 10 Know if changes are to be made |  |  |  | Keep the application updated |  |
|  |  |  |  | |  |  |  |  |
| **Process-2** |  |  | **Apply necessary changes** | |  |  |  |  |
|  |  |  |  | | | | |  |
| **Purpose** |  |  | To modify the application. Keep it updated and free from incorrect data | | | | |  |
|  |  |  |  | |  |  |  |  |
| **Target Audience** |  |  | Customers/ Stakeholders | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
| **Status** |  |  | On-going/ Completed | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
| **Role:** |  |  | **As a** *developer* | |  |  |  |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | **I want to** *<perform some task>* |  |  |  | **so that I can** *<achieve some goal>* |  |
|  |  |  |  | |  |  |  |  |
| **Task Description** |  |  | 1. Generate feedback mechanism |  |  |  | Take action on the user feedback |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 2. Acquire user feedback |  |  |  | Store it and apply relevant changes |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 3. Validate the feedback |  |  |  | Process it for further changes |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 4. Process the feedback |  |  |  | Determine what response is to made |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 5. Determine feedback response |  |  |  | Understand what changes are to be made to |  |
|  |  |  |  |  |  |  | the system |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 6. Analyse changes to be made |  |  |  | Finalise them |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 7. Finalise the changes |  |  |  | Get it approved by the rest of the team |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 8. Get it approved from the team |  |  |  | Make the necessary changes in the system |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 9.Apply the necessary changes in the software |  |  |  | Keep the software ready for re-release |  |
|  |  |  |  | |  |  |  |  |
|  |  |  | 10.Re-release software |  |  |  | Keep the software updated for use |  |

**Iteration Backlog User Stories Goal 1-** ACQUIRE HOSPITAL LIVE DATA

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| **Objective-1** | **Register Transact HOSPITAL** | **SP** | **IC** | **IP** |
|  | 13.Review Market HOSPITAL Work Excerpt market data. | 13 | I1=20 | 1 |
|  | 3. As a Doctor I want to register traders HOSPITAL so that I can build HOSPITAL profile. | 5 |
|  | 9.As a Doctor I want to Upload HOSPITAL Documents so that I can Authenticate From HOSPITAL | 2 |
|  | 1.As a Doctor I want to find online transact so that I can provide Services to trader HOSPITALs. | 3 | I2=20 | 2 |
|  | 2.As a Doctor I want to Select Registration Option so that I can register Transact HOSPITAL | 8 |
|  | 4.As a Doctor I want to Read terms and conditions so that I can Decide further Actions. | 3 |
|  | 5.As a Doctor I want to Accept Terms and condition so that I can Move to next step. | 1 |
|  | 7.As a Doctor I want to Submit HOSPITAL data  Confirm the registration process | 5 |
|  | 12.As a Doctor I want to Choose Trader type so that I can Make entry of broker | 8 | I3=19 | 3 |
|  | 14.As a Doctor I want to Upload Trader Qualification Details so that I can Authenticate Broker | 8 |
|  | 6.As a Doctor I want to Fill detailed information so that I can Proceed the registration process. | 3 |
|  | 15.As a Doctor I want to Assign Trader Controls so that I can Avail assigned services to broker | 13 | I4=18 | 4 |
|  | 16.As a Doctor I want to Verify registered email Id so that I can Receive validated acknowledgement | 5 |
|  | 10.As a Doctor I want to Arrange Managers so that I can Finalize the Field of HOSPITAL Interest | 5 | I5=18 | 5 |
|  | 11As a Doctor I want to Validate that I can Access HOSPITAL services | 5 |
|  | 16.As a Doctor I want to Maintain Service Log so that I can Track HOSPITAL activities | 8 |

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| **Process-1** | **Acquire HOSPITAL Details** | **SP** | **IC** | **IP** |
|  | 8.As a Doctor I want to take a tour so that I can verify facility details | 18 | I1=20 | 1 |
|  | 3..As a Doctor I want to fetch government database so that I can cross check entered HOSPITAL data | 13 | I2=20 | 2 |
|  | 1.As a Doctor I want to Access Transact HOSPITAL Profiles so that I can Avail HOSPITAL basic information. | 5 |
|  | 4.As a Doctor I want to run offline survey  so that I can compare with online data | 8 | I3=20 | 3 |
|  | 5.As a Doctor I want to access HOSPITAL location so that I can locate transact HOSPITALs | 5 |
|  | 6.As a Doctor I want to plot marker so that I can find exact location of the HOSPITALs | 5 |
|  | 7.As a Doctor I want to enquire about more facilities so that I can add details to the profile. | 8 | I4=19 | 4 |
|  | 3.As a Doctor I want to filter specific trader HOSPITAL so that I can scrutinize the data | 3 |

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| **Process-2** | **Clean Data Abnormalities** | **SP** | **IC** | **IP** |
|  | 1.As a Doctor I want to run offline check so that i can authenticate online details. | 5 | I1=20 | 1 |
|  | 2.As a Doctor I want to ask HOSPITAL phototable  so that I can certify HOSPITAL details | 2 |
|  | 5.As a Doctor I want to investigate provided documents  so that I can verify the legitimacy. | 13 |
|  | 4.As a Doctor I want to access user review so that I can  check authenticity of service availability | 5 | I2=20 | 2 |
|  | 7.As a Doctor I want to enquire service execution  so that I can trust the system. | 13 |
|  | 8.As a Doctor I want to identify fake services  so that I can notify transact HOSPITAL. | 5 | I3=20 | 3 |
|  | 3. As a Doctor I want to HOSPITAL registration number so that I can crosscheck with government details. | 8 | I4=19 | 4 |
|  | 6.As a Doctor I want to corroborate data accuracy so that I can  evaluate efficiency. | 8 |

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| **Objective-2** | **Analyse HOSPITAL Previous Data** | **SP** | **IC** | **IP** |
| **Task Description** | 1.As a Staff I want to Access transact HOSPITAL database so that I can Avail all the details | 5 | I1=20 | 1 |
|  | 3.As a Staff I want to Assign broker controls  so that I can Restrict HOSPITAL controls. | 13 |
|  | 4.As a Staff I want to Manage user privileges  so that I can Limit user controls. | 2 |
|  | 2. As a Staff I want to Define HOSPITAL controls  so that I can Assign HOSPITAL controls. | 8 | I2=20 | 2 |
|  | 7.As a Staff I want to Provide privacy policy  so that I can Assure client security. | 8 |
|  | 9.As a Staff I want to Maintain group profile  so that I can Announce notifications, privacy and permissions | 2 |
|  | 6.As a Staff I want to Present work timeline  so that I can View work list. | 2 |
|  | 5.As a Staff I want to Enable Administrator privileges  so that I can Have full control over HOSPITAL account. | 8 | I3=20 | 3 |
|  | 8.As a Staff I want to Display dashboard  so that I can Access avail services. | 3 |
|  | 10.Attach support inbox As a Staff I want to  so that I can Save the messages. | 2 |
|  | 11.As a Staff I want to Define setting parameters  so that I can Create account settings. | 3 |
|  | 12.As a Staff I want to Enlist language support so that I can Provide language list | 2 |
|  | 13.As a Staff I want to Provide notification  so that I can Notify transact HOSPITALs | 2 |
|  | 14.As a Staff I want to Render tracking service  so that I can Track the services. | 5 | I4=18 | 4 |
|  | 15.As a Staff I want to Enable migration service  so that I can Allow HOSPITAL migration. | 5 |
|  | 16.As a Staff I want to Permit limited database access  so that I can Be assured that information is transferred. | 8 |

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| **Process-1** | **Assign HOSPITAL Privileges** | **SP** | **IC** | **IP** |
|  | 1.As a HOSPITAL Expert Iwant to Create Transaction HOSPITAL Role so that I can Assign privileges to each role differently | 5 | I1=20 | 1 |
|  | 2.As a HOSPITAL Expert I want to Export account data  Backup emails data from entire accounts | 13 |
|  | 8.As a HOSPITAL Expert I want to Manage User Accounts  so that I can Control all user accounts from control panel. | 2 |
|  | 2.As a HOSPITAL Expert I want to Define Access restriction so that I can Limit Transaction HOSPITAL privileges | 8 | I2=20 | 2 |
|  | 3.As a HOSPITAL Expert I want to Enable Expert Privileges  so that I can Empower Experts with full control over HOSPITAL account | 5 |
|  | 5.As a HOSPITAL Expert I want to Set Roles and privileges  so that I can Allot varying levels of privileges to each user. | 5 |
|  | 6.As a HOSPITAL Expert I want to Monitor Audit logsso that I can  Track trader Transaction HOSPITAL activities | 8 | I3=20 | 3 |
|  | 7.As a HOSPITAL Expert I want to Provide Email Policies so that I can  Setup restriction on mailbox. | 5 |

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| **Process-2** | **Release HOSPITAL Controls** | **SP** | **IC** | **IP** |
| **Task Description** | 1. As a system Data Manager I want to Fetch HOSPITAL Database so that I can Prepare the data using the details | 5 | I1=20 | 1 |
|  | 6. As a system Data Manager I want to check HOSPITAL table  so that I can cross-validate the table of | 13 |
|  | 2. As a system Data Manager I want to Detect HOSPITAL Facilities so that I can Manage HOSPITAL facilities | 2 |
|  | 3. As a system Data Manager I want to review HOSPITAL work so that I can  rank them in order | 8 | I2=20 | 2 |
|  | 5. As a system Data Manager I want to record HOSPITALs’ statistic  so that I can gather this record and inform the unselected HOSPITAL about it | 5 |
|  | 7. As a system Data Manager I want to generate HOSPITAL template  so that I can maintain uniformity regarding the format of the message | 5 |
|  | 4. As a system Data Manager I want to formulate information table so that I can  provide precise information | 2 |
|  | 8. As a system Data Manager I want to notify HOSPITAL report  so that I can approach the HOSPITAL for the vacan cies created | 5 | I3=20 | 3 |

**User Stories Goal 2-** Build Trader Data Profiles

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| **Objective-1** | **Catalogue Traders** | **SP** | **IC** | **IP** |
| **Task Description** | 4. As a Trader Manager I want to Record intake location so that I can Save location details. | 13 | I1=20 | 1 |
|  | 6. As a Trader Manager I want to Set Catalogue Parameter so that I can Organize Trader details | 5 |
|  | 2. As a Trader Manager I want to Ascertain Trader so that I can Categorize the Traders. | 2 |
|  | 8. As a Trader Manager I want to Browse Trader feature so that I can Match with existing data | 13 | I2=20 | 2 |
|  | 10. As a Trader Manager I want to Decide attribute ranges so that I can Compare abnormalities of data | 5 |
|  | 15. As a Trader Manager I want to Catalogue Traders so that I can Use while reporting Trader | 2 |
|  | 13. As a Trader Manager I want to Produce the correct data so that I can Resolve the abnormality issue | 13 | I3=18 | 5 |
|  | 14. As a Trader Manager I want to Correct found abnormality so that I can Refine the data | 5 |
|  | 11. As a Trader Manager I want to Inspect catalogue database so that I can Sieve abnormalities | 8 | I4=19 | 3 |
|  | 5. As a Trader Manager I want to Record Trader Details so that I can Stash into database | 8 |
|  | 1. As a Trader Manager I want to Observe Trader living condition so that I can Determine whether Trader is existing. | 3 |
|  | 12. As a Trader Manager I want to Search for inadequate data so that I can Identify missing and null data | 8 | I5=19 | 4 |
|  | 16. As a Trader Manager I want to Commit database changes so that I can Render the changes to the team | 8 |
|  | 3. As a Trader Manager I want to Determine type so that I can Find characteristics. | 3 |
|  | 7. As a Trader Manager I want to Take Trader phototable so that I can Identify Trader | 5 | I6=8 | 6 |
|  | 9. As a Trader Manager I want to Assert Trader so that I can Mention in the Trader catalogues | 3 |

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| **Process-1** | **Create Trader portfolio** | **SP** | **IC** | **IP** |
| **Task Description** | 4. As a Database Administrator I want to List characteristics so that I can Use for further actions. | 13 | I1=20 | 1 |
|  | 1. As a Database Administrator I want to Observe Trader living condition so that I can Determine whether Trader is missing, pet or roadside. | 5 |
|  | 3. As a Database Administrator I want to Determine type so that I can Find characteristics | 8 | I2=20 | 2 |
|  | 2. As a Database Administrator I want to Ascertain Trader so that I can Categorize the Traders. | 5 |
|  | 5. As a Database Administrator I want to Identify body marks so that I can Identify Trader uniqueness. | 3 |
|  | 8. As a Database Administrator I want to Pre-process Traders attribute details so that I can Analyse Trader behavioural changes | 8 | I3=20 | 3 |
|  | 7. As a Database Administrator I want to Identify all other attributes so that I can Use it for pre-processing | 3 |
|  | 6. As a Database Administrator I want to Recognize coat type so that I can Specify Trader precisely | 8 | I5=13 | 5 |

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| **Process-2** | **Register Trader Feature** | **SP** | **IC** | **IP** |
| **Task Description** | 7. As a Database Administrator I want to Record formulated observations so that I can discuss with the analysis team | 13 | I1=20 | 1 |
|  | 2. As a Database Administrator I want to Design patterns for attributes so that I can study the data | 5 |
|  | 3. As a Database Administrator I want to Conceptualise output parameters so that I can process of analysing is directed | 2 |
|  | 4. As a Database Administrator I want to Group and compare attributes so that I can examine data distribution | 13 | I2=20 | 2 |
|  | 4. As a Database Administrator I want to Prioritise the important parameters so that I can produce accurate results | 5 |
|  | 6. As a Database Administrator I want to Organise the parameters so that I can simplify analysis process | 2 |
|  | 1. As a Database Administrator I want to Organise Trader database attributes so that I can easily analyse the data | 8 | I3=20 | 3 |
|  | 8. As a Database Administrator I want to Correspond with Analysis team so that I can refine the observations | 5 |
|  | 5. As a Database Administrator I want to Map shortlisted attributes so that I can formalize the observations | 8 | I4=19 | 4 |
|  | 6. As a Database Administrator I want to Consolidate outline analysis process so that I can systemize procedure | 8 |

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| **Objective-2** | **Prepare Trader Transaction Chart** | **SP** | **IC** | **IP** |
| **Task Description** | 8. As anTrader Manager I want to Know Trader Welfare Assessment so that I can Understand physiologically, behaviourally growing needs | 13 | I1=20 | 1 |
|  | 2. As anTrader Manager I want to Filter Trader wise information so that I can Create Count of Trader | 5 |
|  | 6. As anTrader Manager I want to Measure housing environment so that I can Arrange services | 2 |
|  | 1. As anTrader Manager I want toRetrieve Trader data source so that I can Have Trader information | 8 | I2=20 | 2 |
|  | 14. As anTrader Manager I want to Inform the Authorities so that I can Make further process | 5 |
|  | 16. As anTrader Manager I want to Stash details into database so that I can Use it in future | 5 |
|  | 10. As anTrader Manager I want to Give emotional support so that I can Assure Sustainability of Trader | 2 |
|  | 3. As anTrader Manager I want to Sort test results according to criteria so that I can Understand the Transaction zone of Trader | 8 | I3=19 | 3 |
|  | 4. As anTrader Manager I want to Know Trader type so that I can Make filter based on this | 8 |
|  | 5. As anTrader Manager I want to Know food available so that I can Maintain type of food | 3 |
|  | 7. As anTrader Manager I want to Score body condition & lameness so that I can Prepare health report | 8 | I4=19 | 4 |
|  | 9. As anTrader Manager I want to Identify Nutritional changes so that I can Analysis the behaviour. | 8 |
|  | 11. As anTrader Manager I want to Find Behavioural expectation so that I can Expect the reaction. | 3 |
|  | 12. As anTrader Manager I want to Ascertain so that I can Add data to the chart | 3 | I5=19 | 5 |
|  | 13. As anTrader Manager I want to Secure Location Access so that I can Keep Trader safe. | 8 |
|  | 15. As anTrader Manager I want to Confirm Trader data so that I can Stash into database | 8 |

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| **Process-1** | **Gather Living Conditions** | **SP** | **IC** | **IP** |
| **Task Description** | 4. As a taker I want to Assess Trader welfare conditions so that I can Add data to the chart | 13 | I1=20 | 1 |
|  | 1. As a taker I want to Know the type of Trader so that I can Make filter based on this | 5 |
|  | 6. As a taker I want to Find Behavioural expectation so that I can Expect behavioural changes. | 2 |
|  | 8. As a taker I want to Corroborate selected attributes consistency so that I can prevent problems affecting further process | 5 |
|  | 7. As a taker I want to List available Traders attributes so that I can choose attributes to be considered | 2 |
|  | 3. As a taker I want to Gather environmental body effects so that I can Avoid that exposure | 8 | I3=20 | 3 |
|  | 2. As a taker I want to Assess surrounding environment so that I can Know Environmental differences | 3 |
|  | 5. As a taker I want to Detect emotional characteristics so that I can Give emotional support | 1 |

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| **Process-2** | **Register Details** | **SP** | **IC** | **IP** |
| **Task Description** | 8. As a Trader Manager I want to Register details so that I can Use into Trader registration | 13 | I1=20 | 1 |
|  | 1. As a Trader Manager I want to Set mandatory field so that I can maintain consistency of database | 5 |
|  | 7. As a Trader Manager I want to Discuss Trader Analysis so that I can Ensure system correctness | 2 |
|  | 5. As a Trader Manager I want to Register details into database so that I can Stash new details | 8 | I2=20 | 2 |
|  | 2. As a Trader Manager I want to Ascertain details so that I can make system as accurate as possible | 3 |
|  | 3. As a Trader Manager I want to Set fields detail so that I can add details | 1 |
|  | 4. As a Trader Manager I want to Accept details inputs so that I can Stash new details | 5 | I4=20 | 3 |
|  | 8. As a Trader Manager I want to Decide appropriate sorting for database so that I can create a relative rating index | 5 |
|  | 6. As a Trader Manager I want to Set limits and bounds in database so that I can keep the data relative and realistic | 3 | I5=9 | 5 |
|  | 7. As a Trader Manager I want to Evoke details so that I can compare continents | 3 |

**3. USER STORIES: GOAL 3– Capture Trader Status**

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| **Objective-1** | **Classify Trader status** | **SP** | **IC** | **IP** |
|  | 1.As a Trader Administrator I want to Organize Trader Portfolio so that I can Study and Observe Trader status and behaviour. | 5 | I1=20 | 1 |
|  | 4.As a Trader Administrator I want to Validate Trader Information  So that I can Provide reliable information to the Trader Administrator team | 13 |
|  | 2.As a Trader Administrator I want to Access transact Trader database  So that I can Retrieve Trader Information about various aspects. | 2 |
|  | 3.As a Trader Administrator I want to Access Trader Transaction Chart so that I can  Use the relative information for further analysis. | 5 | I2=20 | 2 |
|  | 5.As a Trader Administrator I want to Maintain Record Changes so that I can  Keep track of every action done by the system | 8 |
|  | 6.As a Trader Administrator I want to Create status categories  So that I can Categorize the status. | 2 |
|  | 7.As a Trader Administrator I want to Study Trader status fully  So that I can Classify the Trader status | 5 | I3=20 | 3 |
|  | 9.As a Trader Administrator I want to Feed the database  So that I can Access it in future. | 8 |
|  | 10.As a Trader Administrator I want to Observe Trader Behaviour  So that I can Note down the characteristics. | 5 |
|  | 11.As a Trader Administrator I want to Note down behavioural changes  So that I can Expect the Trader behaviour. | 2 |
|  | 8.As a Trader Administrator I want to Create Trader status chart  So that I can Use it for further process. | 5 | I4=18 | 4 |
|  | 12.As a Trader Administrator I want to Categorize Trader status  So that I can Classify Traders | 8 |
|  | 13.As a Trader Administrator I want to Communicate the users  So that I can Convey them the Trader status | 5 |
|  | 14.As a Trader Administrator I want to Arrange Trader meeting  So that I can Discuss further process. | 8 | I5=18 | 5 |
|  | 15.As a Trader Administrator I want to Derive status report  So that I can Provide to the users. | 5 |
|  | 16.As a Trader Administrator I want to Correspond with analysis team  So that I can Convey the changes. | 5 |

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| **Process-1** | **Certify Trader status** |  |  |  |
|  | 1.As a Transaction Analyzer I want to Access Trader database so that I can Obtain Trader status information | 5 | I1=20 |  |
|  | 4.As a Transaction Analyzer I want to Identify the changes so that I can  Make changes in the database. | 2 |  |
|  | 2.As a Transaction Analyzer I want to Obtain Trader status chart so that I can Study Trader status | 5 | I2=20 | 2 |
|  | 3.As a Transaction Analyzer I want to Reorganize Trader portfolio  So that I can Contemporize the data | 8 |
|  | 5.As a Transaction Analyzer I want to Register status features  So that I can Use it for further actions. | 8 | I3=20 | 3 |
|  | 7.As a Transaction Analyzer I want to Remove inconsistent data  So that I can Make consistent database. | 8 |
|  | 6.As a Transaction Analyzer I want to Study status characteristics  So that I can Observe the changes. | 5 | I4=18 | 4 |
|  | 8.As a Transaction Analyzer I want to Create log File  So that I can Record saved data. | 5 |

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| **Process-2** | **Register Trader status** | **SP** | **IC** | **IP** |
|  | 1.As an System administrator I want to Retrieve Trader Trader database so that I can  Access Trader information | 5 | I1=20 | 1 |
|  | 2.As an System administrator I want to Obtain Trader Trader Profiles  So that I can Utilize more information | 13 |
|  | 3.As an System administrator I want to Study Trader status chart  So that I can observe the characteristics | 2 |
|  | 4.As an System administrator I want to Obtain categorized status  So that I can Determine status registration options | 8 | I2=20 | 2 |
|  | 7.As an System administrator I want to Draw a map for the shortlisted attributes  So that I can formalize the observations | 2 |
|  | 5.As an System administrator I want to Contact system analyst  So that I can Obtain analysed data | 5 | I3=20 | 3 |
|  | 6.As an System administrator I want to Study analysed data  So that I can Compare the status | 5 |
|  | 8.As an System administrator I want to Pre-process Traders attribute details  So that I can Analyse Trader behavioural changes | 5 | I4=18 | 4 |

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| **Objective-2** | **Diagnose Trader Health** | **SP** | **IC** | **IP** |
|  | 1.As a Transaction Analyzer I want to Fetch Trader data so that I can  Study Trader data. | 5 | I1=20 | 1 |
|  | 6.As a Transaction Analyzer I want to Give inspection allotments  So that I can Prioterize the work easily | 13 |
|  | 2.As a Transaction Analyzer I want to Access Trader status chart  So that I can Study fully Trader status | 2 |
|  | 3.As a Transaction Analyzer I want to Build Queries template  So that I can Prepare sequence chart. | 8 | I2=20 | 2 |
|  | 5.As a Transaction Analyzer I want to Access Trader transaction chart  So that I can Study their weak points. | 8 |
|  | 12.As a Transaction Analyzer I want to Maintain Record Changes  So that I can Keep track of every action done by the system | 2 |
|  | 13.As a Transaction Analyzer I want to Present Trader data  So that I can Make arrangement of required treatment | 2 |
|  | 4.As a Transaction Analyzer I want to Categorize Trader health severity so that I can Prioritize the Trader inspection sequence | 5 | I3=18 | 3 |
|  | 10.As a Transaction Analyzer I want to Suggest necessary treatment  So that I can Diagnose next Trader. | 13 |
|  | 7.As a Transaction Analyzer I want to Diagnose Trader fully  So that I can Give treatment successfully. | 13 | I4=18 | 4 |
|  | 8.As a Transaction Analyzer I want to Make note of points  So that I can Use it for further actions. | 5 |
|  | 9.As a Transaction Analyzer I want to Discuss with other veterinaries So that I can Confirm the treatment. | 5 | I5=18 | 5 |
|  | 11.As a Transaction Analyzer I want to Inspect Trader injury severity  So that I can Suggest surgery treatment. | 8 |
|  | 14.As a Transaction Analyzer I want to Find root cause of disease  So that I can Avoid future happening. | 5 |
|  | 15.As a Transaction Analyzer I want to Schedule the work  So that I can Complete in time. | 8 | I6=16 | 6 |
|  | 16.As a Transaction Analyzer I want to Diagnose all the Traders  So that I can Prepare a data chart. | 8 |

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| **Process-1** | **Identify Trader Symptoms** | **SP** | **IC** | **IP** |
| **Task Description** | 1.As a Transaction Analyzer Trader I want toDiagnose Trader health so that I can  Identify Trader symptoms. | 5 | I1=20 | 1 |
|  | 3.As a Transaction Analyzer Trader I want toValidate Trader Information  So that I can Take Further Actions. | 13 |
|  | 2.As a Transaction Analyzer Trader I want toAccess Trader database so that I can  Study relevant information. | 8 | I2=19 | 2 |
|  | 4.As a Transaction Analyzer Trader I want toEliminate Irrelevant Information  So that I can Avoid confusion | 8 |
|  | 5.As a Transaction Analyzer Trader I want toStudy Trader Injuries  So that I can Note down Trader symptoms. | 5 | I3=20 | 3 |
|  | 6.As a Transaction Analyzer Trader I want toObserve Trader Symptoms  So that I can Derive the injury type. | 13 |
|  | 7.As a Transaction Analyzer Trader I want toDetermine injury or symptoms severity  So that I can Take some more test | 8 | I4=18 | 4 |
|  | 8.As a Transaction Analyzer Trader I want toTake some medical test  So that I can Clear the assumptions. | 13 | I5=18 | 5 |

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| **Process-2** | **Generate Health Report** | **SP** | **IC** | **IP** |
| **Task Description** | 1As an Broker I want to Access Trader database so that I can  Excerpt important information. | 5 | I1=20 | 1 |
|  | 3.As an Broker I want to Communicate with Transaction Analyzer so that I can  Obtain help in report making. | 13 |
|  | 9.As an Broker I want to Categorize the Trader details  So that I can Make proper format. | 2 |
|  | 2.As an Broker I want to Retrieve Trader Status chart so that I can Use it for report making. | 8 | I2=20 | 2 |
|  | 4.As an Broker I want to Excerpt all the Trader files so that I can Obtain all the relevant information. | 5 |
|  | 7.As an Broker I want to Communicate with taker so that I can  Discuss Trader behaviour. | 5 |
|  | 6.As an Broker I want to Verify data in the database so that I can  Authenticate the data. | 13 | I3=20 | 3 |
|  | 5.As an Broker I want to Study Previously generated reports so that I can  Use the data in final report | 8 | I3=19 | 4 |
|  | 8.As an Broker I want to Contact with Trader so that I can  Know the report well. | 8 |

# 4.USER STORIES: GOAL 4- Excerpt HOSPITAL Characteristics

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| **Objective-1** | Recognise HOSPITAL Existing Data | **SP** | **IC** | **IP** |
| **Task Description** | 7.As an Administrator I want to Record user Queries so that I can Each queries must be recorded in database | 13 | I1=20 | 1 |
|  | 9.As an Administrator I want to Build Queries template so that I can Make a template for sending the information to Transaction Analyzer | 5 |
|  | 3.As an Administrator I want to Request facilitator so that I can develop feedback. | 2 |
|  | 1.As an Administrator I want to Retrieve HOSPITAL Database so that I can Accumulate all the information regarding HOSPITALs. | 8 | I2=20 | 2 |
|  | 6.As an Administrator I want to Provide Precise information so that I can Give Information about the user queries | 8 |
|  | 2.As an Administrator I want to Take company’s HOSPITAL data so that I can observe HOSPITAL fluctuations. | 3 |
|  | 4.As an Administrator I want to Examine HOSPITAL facilities so that I can Understand the quantity of the HOSPITAL. | 1 |
|  | 8.As an Administrator I want to Inform Queries Result so that I can Provide information about the user queries to Transaction Analyzer | 8 | I3=20 | 3 |
|  | 10.As an Administrator I want to Notify unselected Queries so that I can Discard the unnecessary problems | 8 |
|  | 5.As an Administrator I want to ensure machine availability so that I can identify available treatments. | 3 |
|  | 15.As a Administrator I want to Avoid Space Wastage so that I can Remove the unnecessary information | 1 |
|  | 12.As an Administrator I want to Make Future availability so that I can Make it available for future use | 8 | I4=20 | 4 |
|  | 11.As an Administrator I want to Finalize Queries Content so that I can Provide the Transaction Analyzer with the queries details | 5 |
|  | 16.As an Administrator I want to Promote Query Table so that I can Contemporize the query form according to feedback | 5 |
|  | 14.As an Administrator I want to Evaluate Feature Selection so that I can Choose appropriate strategy for queries | 2 |
|  | 13.As an Administrator I want to Provide Cross-validation so that I can Provide a correct required details | 3 | I5=3 | 5 |

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| **Process-1** | Inspect Current HOSPITAL Registers | **SP** | **IC** | **IP** |
| **Task Description** | 1.As a HOSPITAL Register Manager I want to Trace User Location so that I can Identify where user is | 13 | I1=20 | 1 |
|  | 3.As a HOSPITAL Register Manager I want to Validate User Location so that I can Identify the authenticity of user location | 5 |
|  | 7.As a HOSPITAL Register Manager I want to Inspect User Location so that I can Analyse its importance | 2 |
|  |  |  |  |  |
|  | 5.As a HOSPITAL Register Manager I want to Promote User Location so that I can Keep my database contemporize regarding user location | 5 |
|  | 2.As a HOSPITAL Register Manager I want to Corroborate User Location so that I can See that user location is correct | 8 | I3=19 | 4 |
|  | 4.As a HOSPITAL Register Manager I want to Identify Nearby Places so that I can Locate the user easily | 8 |
|  | 6.As a HOSPITAL Register Manager I want to Hoard User Location so that I can Use it for future use | 3 |
|  | 8.As a HOSPITAL Register Manager I want to Determine User Location so that I can Send emergency alerts whenever user is trapped in dangerous situations | 5 | I4=20 | 3 |

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| **Process-2** | Inspect Relevant Characteristics | **SP** | **IC** | **IP** |
| **Task Description** | 3.As Administrator I want to Ensure data correctness so that I can Check broker data | 13 | I1=20 | 1 |
|  | 2.As Administrator I want to Accumulate Broker Data so that I can Excerpt the data | 5 |
|  | 4.As Administrator I want to Excerpt Useful Information so that I can Process it for further changes | 2 |
|  | 7.As Administrator I want to Display Broker Experience so that I can Assure user about brokers growth | 5 |
|  | 1.As Administrator I want to Obtain Trader Trader Details so that I can Obtain broker information | 8 | I3=19 | 3 |
|  | 8.As Administrator I want to Access Feedback about Broker so that I can check the users feedback | 8 |
|  | 5.As Administrator I want to Arrange Meeting Schedules so that I can Report broker activities to users | 3 |
|  | 6.As Administrator I want to Excerpt Broker Data so that I can Achieve the speed of retrieval | 3 | I6=9 | 6 |

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| **Objective-2** | Inspect Changes on Transactions | **SP** | **IC** | **IP** |
| **Task Description** | 3.As a Transaction Analyzer I want to Excerpt Administrator information so that I can Use it for the assigning of Administrator | 13 | I1=20 | 1 |
|  | 1.As a Transaction Analyzer I want to Add large number of broker so that I can Make broker assignment easier | 5 |
|  | 12.As a Transaction Analyzer I want to Make a precise database so that I can Use it to display to users | 2 |
|  | 10.As a Transaction Analyzer I want to find services provided by Administrator so that I can Assign Administrator. | 13 | I2=20 | 2 |
|  | 4.As a Transaction Analyzer I want to Investigate searched abnormality so that I can Verify the legitimacy | 5 |
|  | 16.As a Transaction Analyzer I want to Know the data sources so that I can Trust the system | 2 |
|  | 2.As a Transaction Analyzer I want to Conserve Administrator in database so that I can Easily find the Administrator as per Trader | 8 | I3=20 | 3 |
|  | 6.As a Transaction Analyzer I want to Correct the found abnormality so that I can Refine the data | 8 |
|  | 8.As a Transaction Analyzer I want to Check already used data so that I can Rollback the incorrect data operations | 3 |
|  | 13.As a Transaction Analyzer I want to Track validation process so that I can Verify data | 1 |
|  | 7.As a Transaction Analyzer I want to Commit changes on database so that I can Render the changes to the team | 8 | I4=19 | 4 |
|  | 9.As a Transaction Analyzer I want to Notify team about changes so that I can Ensure consistency in the system | 8 |
|  | 14.As a Transaction Analyzer I want to Run background checks so that I can Ascertain data correctness. | 3 |
|  | 5.As a Transaction Analyzer I want to Produce the correct, improvised data so that I can Resolve the abnormality issue | 5 | I6=18 | 6 |
|  | 11.As a Transaction Analyzer I want to Obtain correct Administrator transaction so that I can To recommend Administrator to user | 5 |
|  | 15.As a Transaction Analyzer I want to Ensure Administrator Information so that I can Protect Administrator data that I represent | 3 |

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| **Process-1** | Pre-Process User Input Data | **SP** | **IC** | **IP** |
| **Task Description** | 1.As a Administrator I want to Access Current Trader status so that I can Make plan accordingly | 13 | I1=20 | 1 |
|  | 4.As a Administrator I want to Eliminate Irrelevant Information so that I can Avoid confusion | 5 |
|  | 6.As a Administrator I want to Conserve Record Changes so that I can Keep track of every action done by the system | 2 |
|  | 2.As a Administrator I want to Check ambulance service required so that I can Arrangement of ambulance | 8 | I2=20 | 2 |
|  | 3.As a Administrator I want to Validate Trader Information so that I can Provide reliable information to the Administrator team | 3 |
|  | 8.As a Administrator I want to Present Trader data so that I can Make arrangement of required treatment | 1 |
|  | 7.As a Administrator I want to Create log file so that I can Stash the changes made in the system | 3 |
|  | 5.As a Administrator I want to Inform ambulance so that I can Call ambulance to user location | 1 |

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| **Process-2** | Append Relevant Contemporizes | **SP** | **IC** | **IP** |
| **Task Description** | 8.As a Transaction Analyzer I want to Assign experienced Administrator so that I can Provide best possible service | 13 | I1=20 | 1 |
|  | 1.As a Transaction Analyzer I want to Request Report Creation so that I can So that it can be used for analysis of Trader | 5 |
|  | 5.As a Transaction Analyzer I want to Inspect Trader as per status report so that I can Detect disease | 2 |
|  | 6.As a Transaction Analyzer I want to Detect values so that I can Alert facilitator about amrket | 5 |
|  | 3.As a Transaction Analyzer I want to Stash Trader Details so that I can Use for further analysis | 2 |
|  | 2.As a Transaction Analyzer I want to Find Trader Status Report so that I can Build a Trader status Report | 8 | I3=20 | 3 |
|  | 4.As a Transaction Analyzer I want to Request facilitators permission so that I can Start treatment | 8 |
|  | 7.As a Transaction Analyzer I want to Access treatment data source so that I can Filter previous treatments | 8 | I4=16 | 4 |

**5. USER STORIES: GOAL 5- Process User Requests/Queries**

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| --- | --- | --- | --- | --- |
| **Objective-1** | Recognise User Queries | **SP** | **IC** | **IP** |
|  | 1.As an Database administrator I want to Log in into the Trader Transact value so that I can  Obtain Information about Transact Traders | 5 | I1=20 | 1 |
|  | 4.As an Database administrator I want to Define Trader database attributes so that I can easily analyse the data | 13 |
|  | 13.As an Database administrator I want to Enter Database Details so that I can use for further process. | 2 |
|  | 2.As an Database administrator I want to Access Main Database so that I can Study the database. | 8 | I2=20 | 2 |
|  | 3.As an Database administrator I want to Identify database parameters so that I can Organize parameters data | 5 |
|  | 14.As an Database administrator I want to Create log file  So that I can Maintain record changes | 2 |
|  | 5. As an Database administrator I want to Retrieve Trader Data so that I can Observe main features. | 5 |
|  | 7. As an Database administrator I want to Check Trader database so that I can See facility details | 8 | I3=19 | 3 |
|  | 8. As an Database administrator I want to Examine Trader Profile so that I can Crosscheck the Data | 8 |
|  | 15. As an Database administrator I want to Do some data operations so that I can Ensure system Working | 3 |
|  | 6. As an Database administrator I want to Obtain User Queries  So that I can Solve User Queries | 13 | I4=18 | 4 |
|  | 9. As an Database administrator I want to Organize Trader Profiles so that I can Arrange data in order | 5 |
|  | 10. As an Database administrator I want to Avail trader Services so that I can Create Service File. | 5 | I5=18 | 5 |
|  | 11. As an Database administrator I want to Manage database security so that I can Ensure data protection. | 13 |
|  | 12. As an Database administrator I want to Manage resources allocation so that I can Allocate resources to the users. | 13 | I6=18 | 6 |
|  | 16. As an Database administrator I want to Detect data anomaly so that I can Remove the anomaly. | 5 |
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| **Process-1** | Standardize Query Format | **SP** | **IC** | **IP** |
|  | 1.As a System Administrator I want to Retrieve Trader Database so that I can  Collect all the information regarding Trader | 5 | I1=20 | 1 |
|  | 5. As a System Administrator I want to Ensure the availability of machines so that I can Identify available treatments. | 13 |
|  | 3.As a System Administrator I want to Request the facilitator  So that I can tour the Transact Trader | 2 |
|  | 2.As a System Administrator I want to Take a tour of the Trader so that I can Observe the Trader facilities | 5 | I2=20 | 2 |
|  | 4.As a System Administrator I want to Examine the Trader facilities so that I can Understand the quality of the Trader | 8 |
|  | 6.As a System Administrator I want to Search availability Of resources so that I can Allocate the resources. | 5 |
|  | 8.As a System Administrator I want to Check Trader Spacing so that I can Confirm the details | 2 | I3=20 | 3 |

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| **Process-2** | **Execute Transaction** | **SP** | **IC** | **IP** |
|  | 1.As System admin I want to Fetch Trader Transact database. So that I can obtain Trader details. | 5 | I1=20 | 1 |
|  | 3.As System admin I want to Take a tour of Trader  So that I can Observe the Trader facilities. | 13 |
|  | 2.As System admin I want to Verify data sources  So that I can Authenticate Trader details | 8 | I2=20 | 2 |
|  | 5.As System admin I want to Enlist Trader facilities  So that I can Categorize the facilities. | 5 |
|  | 8.As System admin I want to Acquire HOSPITAL Details  So that I can Study the details | 5 |
|  | 4As System admin I want to Evaluate machine Efficiency  So that I can Confirm machine correctness | 18 | I3=20 | 3 |
|  | 7.As System admin I want to Search Additional facilities  So that I can Add facility details | 13 | I4=18 | 4 |
|  | 6.As System admin I want to Enter facility details  So that I can Promote the database. | 8 | I5=16 | 5 |

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| **Objective-2** | **Handle User Input Data** | **SP** | **IC** | **IP** |
|  | 1.As an broker I want to Fetch Trader Data  So that I can Collect all the information regarding queries | 8 | I1=20 | 1 |
|  | 2.As an broker I want to Access Final Report so that I can Study the report | 5 |
|  | 5.As an broker I want to Organise a meeting so that I can Present the data | 5 |
|  | 7.As an broker I want to Observe treatment flow  So that I can Determine needed resources | 2 |
|  | 11.As an broker I want to Check Trader availability  So that I can Enlist available Traders | 5 | I2=20 | 2 |
|  | 12.As an broker I want to Inquire Trader vacan cy  So that I can Allocate Trader to the Trader | 8 |
|  | 13.As an broker I want to Inform the authorities  So that I can Take Further Actions. | 2 |
|  | 16.As an broker I want to Record analysed data  So that I can Use it in Future | 5 |
|  | 3.As an broker I want to Study Trader Report so that I can See Trader Characteristics | 8 | I3=18 | 3 |
|  | 8.As an broker I want to Check Trader resources  So that I can Find Traders with required resources | 5 |
|  | 10.As an broker I want to Confirm Trader report study  So that I can Decide further actions | 5 |
|  | 4.As an broker I want to Contact with Transaction Analyzer Trader so that I can Understand the report well | 13 | I4=18 | 4 |
|  | 14.As an broker I want to Analyse Trader health report  So that I can Suggest transact Trader | 5 |
|  | 6.As an broker I want to Study Required treatment  So that I can Decide further actions | 8 | I5=18 | 5 |
|  | 9.As an broker I want to Study Trader behaviour  So that I can Observe behavioural changes | 5 |
|  | 15.As an broker I want to Communicate with User  So that I can Obtain User Requirements | 5 |

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| **Process-1** | **Pre-Process User Input Data** | **SP** | **IC** | **IP** |
| **Task Description** | 1.As an Administrator I want to Access Trader Report  So that I can Study Trader Report. | 5 | I1=20 | 1 |
|  | 5.As an Administrator I want to Verify data in the database  So that I can Ensure data Authenticity. | 13 |
|  | 2.As an Administrator I want to Obtain all the details of Trader so that I can Observe fully the characteristics. | 5 | I2=20 | 2 |
|  | 3.As an Administrator I want to Retrieve Trader Status chart so that I can Study Trader status | 8 |
|  | 5.As an Administrator I want to Fetch Trader Database  So that I can Obtain all the details. | 5 |
|  | 8.As an Administrator I want to Enlist All the Transact Traders.  So that I can Compare their characteristics. | 2 |
|  | 7.As an Administrator I want to Consider Trader health issues  So that I can Relate to the transact Traders. | 5 | I3=20 | 3 |
|  | 6.As an Administrator I want to Analyse Facility Details  So that I can Compare with Trader report. | 8 | I4=18 | 4 |

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| **Process-2** | **Append Relevant Dataset** | **SP** | **IC** | **IP** |
| **Task Description** | 1.As an broker I want to Acquire user interest  So that I can Provide Transact Trader List. | 5 | I1=20 | 1 |
|  | 3.As an broker I want to Procure Facility details so that I can Show to the User | 13 |
|  | 6.As an broker I want to Study Trader transaction chart  So that I can Check available related Traders. | 2 |
|  | 2.As an broker I want to Fetch transact Trader data so that I can Provide Whenever Necessary. | 8 | I2=20 | 2 |
|  | 5.As an broker I want to Read the user queries so that I can Answer to them | 5 |
|  | 7.As an broker I want to Ask user requirements  So that I can Suggest Trader | 5 |
|  | 4.As an broker I want to Create Query Template  So that I can Ask user to fill the template | 8 | I3=19 | 3 |
|  | 8.As an broker I want to Obtain Trader Treatment details  So that I can Match with transact Trader facilities. | 8 |

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# 6. USER STORIES: GOAL 6 – Process Feedback System

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| **Objective-1** | **Generate feedback mechanism** | **SP** | **IC** | **IP** |
| **Task Description** | 7.As a Transaction Analyzer Optimize Trader status so that I can Controlled experimentation to improve Trader | 13 | I1=20 | 1 |
|  | 3.As a Transaction Analyzer Excerpt Trader Information so that I can Know whether what efforts need to be taken for further improvement | 5 |
|  | 2.As a Transaction Analyzer Keep Trader Activity so that I can Report it to User | 2 |
|  | 4.As a Transaction Analyzer Validate Trader Status so that I can Have current Trader status | 8 | I2=20 | 2 |
|  | 8.As a Transaction Analyzer Excerpt Trader Data so that I can Achieve the speed of retrieval | 8 |
|  | 1.As a Transaction Analyzer Accumulate Trader Data so that I can Keep a record of it | 3 |
|  | 15.As a Transaction Analyzer Inform Trader Status Progress so that I can Assure user about Traders growth | 1 |
|  | 6.As a Transaction Analyzer Ensure Data Correctness so that I can Check whether the Trader data is correct or not | 5 | I3=20 | 3 |
|  | 9.As a Transaction Analyzer Display Trader Progress Status so that I can Assure user about Trader growth | 5 |
|  | 10.As a Transaction Analyzer Process the Feedback’s Details so that I can Ensure the Trader performance | 5 |
|  | 16.As a Transaction Analyzer Rectify Trader Needs so that I can Demonstrate the results | 5 |
|  | 11.As a Transaction Analyzer Provide Status Report so that I can Ensure whether user are satisfied with Administrator activities | 8 | I4=20 | 4 |
|  | 14.As a Transaction Analyzer Create Financial Report so that I can Provide it to user | 8 |
|  | 12.As a Transaction Analyzer Access the Status so that I can Feed it to the processes | 3 |
|  | 5.As a Transaction Analyzer Arrange Meeting Schedules so that I can Report Trader activities to user | 1 |
|  | 13.As a Transaction Analyzer Provide Detailed Guidance so that I can Obtain Trader status feedback | 2 |

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| **Process-1** | **Assess User feedback** | **SP** | **IC** | **IP** |
| **Task Description** | 8.As an Administrator I want to Know the user’s priorities so that I can Decide on providing good content | 13 | I1=20 | 1 |
|  | 1.As an Administrator I want to Render Trader Status so that I can Keep a track of status | 5 |
|  | 3.As an Administrator I want to Excerpt status data source so that I can Refine Trader status | 2 |
|  | 4.As an Administrator I want to Permit status pre-fetching so that I can Process it for further changes | 8 | I2=20 | 2 |
|  | 6.As an Administrator I want to Establish pre-fetching of status details so that I can Enable faster searching | 8 |
|  | 2.As an Administrator I want to Accumulate Trader Data so that I can Excerpt the useful information | 3 |
|  | 5.As an Administrator I want to Execute search query entered by user so that I can Process it as per requirement | 5 |
|  | 7.As an Administrator I want to Conserve status Promotes order so that I can Track status changes | 5 |

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| **Process-2** | **Process User Feedback** | **SP** | **IC** | **IP** |
| **Task Description** | 5.As a Transaction Analyzer I want to Generate Auto Notify System so that I can Minimize user involvement | 13 | I1=20 | 1 |
|  | 1.As a Transaction Analyzer I want to Retrieve Trader Status so that I can Notify status of Trader to user | 5 |
|  | 3.As a Transaction Analyzer I want to Choose media so that I can Send Notification via GCM,SMS or email | 8 | I2=20 | 2 |
|  | 2.As a Transaction Analyzer I want to Generate Notification so that I can Specify purpose of notification | 5 |
|  | 7.As a Transaction Analyzer I want to Retrieve Treatment Details so that I can Generate Bill | 5 |
|  | 6.As a Transaction Analyzer I want to Remind user via Email/SMS so that I can Guarantee that user got notification | 8 | I3=20 | 3 |
|  | 8.As a Transaction Analyzer I want to Notify Bill amount so that I can Reduce overhead of change at Trader cash counter | 3 |
|  | 4.As a Transaction Analyzer I want to Create Efficient notification System so that I can Send notification | 3 |

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| **Objective-2** | **Apply improvement steps** | **SP** | **IC** | **IP** |
| **Task Description** | 10.As an Administrator I want to Process the feedback’s details so that I can Ensure the Trader performance | 13 | I1=20 | 1 |
|  | 2.As an Administrator I want to Retrieve user Rating so that I can Sort Trader list as per ratings | 5 |
|  | 3.As an Administrator I want to Excerpt useful review so that I can Excerpt the user details from database | 2 |
|  | 1.As an Administrator I want to Obtain User Review so that I can Identify user satisfaction | 8 | I2=20 | 2 |
|  | 7.As an Administrator I want to Excerpt Trader Data so that I can Achieve the speed of retrieval | 5 |
|  | 12.As an Administrator I want to Conserve User record so that I can Find the exact interested area | 5 |
|  | 15.As an Administrator I want to Create financial Report so that I can Provide it to users | 2 |
|  | 6.As an Administrator I want to Permit Feedback Reminder so that I can Ensure the message obtains delivered | 8 | I3=20 | 3 |
|  | 16.As an Administrator I want to Inform Traders Progress so that I can Assure user about Trader growth | 5 |
|  | 4.As an Administrator I want to Arrange Meeting Schedules so that I can Report Traders activities to users | 1 |
|  | 13.As an Administrator I want to Retrieve Trader Table so that I can Inform Trader details to user | 1 |
|  | 9.As an Administrator I want to Analyse the table so that I can Gather the posts which are vacan t and occupied | 8 | I4=19 | 4 |
|  | 11.As an Administrator I want to Provide feedback form so that I can Ensure whether users are satisfied with day activities | 8 |
|  | 5.As an Administrator I want to Evoke table details so that I can Gather information and make a complete table | 3 |
|  | 8.As an Administrator I want to Display Trader progress so that I can Assure user about Trader growth | 3 |

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| **Process-1** | **Determine Feedback Response** | **SP** | **IC** | **IP** |
| **Task Description** | 8.As a Transaction Analyzer I want to Apply prioritization technique so that I can Prioritize users feedback | 13 | I1=20 | 1 |
|  | 2.As a Transaction Analyzer I want to Decide Channel so that I can Best to accomplish our goals | 5 |
|  | 1.As a Transaction Analyzer I want to Define gather feedback process so that I can Understand why we are seeking feedback | 2 |
|  | 6.As a Transaction Analyzer I want to Gather feedback so that I can Keep record of it | 8 | I2=20 | 2 |
|  | 4.As a Transaction Analyzer I want to Conduct customer visits so that I can Gather feedback tends to cost a lot more time and resource | 5 |
|  | 5.As a Transaction Analyzer I want to Encourage customer so that I can Submit feature request | 3 |
|  | 3.As a Transaction Analyzer I want to In-person meetings so that I can Obtain a straight answers from customer | 1 |
|  | 7.As a Transaction Analyzer I want to Put all into one place so that I can Make it simple to reference later | 5 |

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| **Process-2** | **Apply necessary changes** | **SP** | **IC** | **IP** |
| **Task Description** | 3.As a User I want to Excerpt Transact Traders Information so that I can Know whether what efforts need to be taken for further improvement | 13 | I1=20 | 1 |
|  | 1.As a User I want to Accumulate Data so that I can Keep a record of it | 5 |
|  | 6.As a User I want to Ensure data correctness so that I can Check whether the user data is correct or not | 2 |
|  | 7.As a User I want to Permit Feedback Reminder so that I can Ensure the message obtains delivered | 8 | I2=20 | 2 |
|  | 8.As a User I want to Excerpt Trader Data so that I can Achieve the speed of retrieval | 5 |
|  | 4.As a User I want to Excerpt useful information so that I can | 5 |
|  | 2.As a User I want to Keep Trader Activity so that I can Report it to Trader | 3 |
|  | 5.As a User I want to Arrange Meeting Schedules so that I can Report user activities to Trader |  |

**VISHWAKARMA INSTITUTE OF TECHNOLOGY, PUNE-37**

**Department of Computer engineering**

**T.Y. B. Tech.**

**CS 303: Software Engineering Laboratory**

Assignment No: 8

**E-HealthCare**

**Software Configuration Mangement**

**Project Group Information**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Roll. No.** | **Gr. No.** | **Name** | **Roles** |
|  | **37** | **161077** | **Rohit Panicker** | **Front End** |
|  | **43** | **161075** | **Sanket Gaikwad** | **Database** |
|  | **45** |  | **Sumeet Deshpande** | **PHP** |

**Approved By: Dr. M. R. Dube**

**Academic Year: 2018-19**

**Semester: 2**

**VISHWAKARMA INSTITUTE OF TECHNOLOGY, PUNE-37**

**Department of Computer engineering**

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**VISHWAKARMA INSTITUTE OF TECHNOLOGY, PUNE-37**

**Department of Computer engineering**

## Component details: Patient Registration

|  |  |
| --- | --- |
| ***Component Name*** | *Patient Registration* |
| ***Kind of Component*** | *Module* |
| ***Responsibilities*** | Get Basic Details of Patients |
| ***Processing*** | 1. Display Patients Registration Form 2. Accept Validate and Store Basic Patient Information |
| ***Reference*** | None |
| ***Constraints*** | New patient only can use this functionality |
| ***Composition*** | Store patient information in the patient database. |
| ***Resources*** | Patient\_db |
| ***Interactions*** | Patient fill up the Registration Form |
| ***Interface/Exports*** | Displays Patient Registration Form |
| ***Interface Tasks*** | New patients only can use this functionality |

## 1.1Procedure Definition Language (Pseudo-code): Patient Registration

INTERFACE: Patient Registration Form

BEGIN

Patient Launches the System Application

CALL Registration\_Form();

CALL Login\_Page();

System connects to the Patient\_db

CALL Registration\_Form();

IF patient Selects load Registration Form

Load Registartion Form;

CONNECT Patient\_db;

COLLECT Patient\_Details();

STORE Patient Details in Patient \_db();

Confirm Process Status;

Patient Details created Sucessfully;

GET Patient \_Details();

GET User\_email;

CREATE Patient \_Account;

GET Patient \_Password;

GET Patient \_Details;

CHECK entered Patient Details;

END IF

ACCEPT Patient\_Name();

ACCEPT Password();

GET patient Details FROM patient \_db;

VALIDATE patient \_Details();

GIVE System Access;

GET patient \_Account\_Created;

END

## Component details: Process Patient Registration

|  |  |
| --- | --- |
| ***Component Name*** | *Process Patient Registration* |
| ***Kind of Component*** | *Sub-Module* |
| ***Responsibilities*** | Get Basic Details of Patients |
| ***Processing*** | 1. Display Patients Registration Form 2. Accept Validate and Store Basic Patients Information |
| ***Reference*** | None |
| ***Constraints*** | New Patient only can use this functionality |
| ***Composition*** | Store Patient information in the Patient database. |
| ***Resources*** | Patient \_db |
| ***Interactions*** | Patient fills up basic details like name, email, Contact Details |
| ***Interface/Exports*** | Displays Patient Registration Form |
| ***Interface Tasks*** | Get Basic Details of Patients |

## Procedure Definition Language (Pseudo-code): Process Patients Details

INTERFACE: Patients Registration Form

BEGIN

Patients Launches the System Application

CALL Registration\_Form();

CALL Login\_Page();

System connects to the Patients \_db

Check Data Connection

IF Data Connection=On

Continue;

ELSE

Data Connection=On;

END IF

CALL Registration\_Form();

Load Registration Form;

CONNECT Patients \_db;

USER enters its Details;

Display Entered Patients Details();

IF Form Fields= TRUE;

Process USER Details();

ELSE

Form Fields = False;

Re-enter Patients Details in Form;

Selects GET Patients Details();

GET Patients\_Details();

Process Patients\_Details();

Confirm Process Status();

CREATE Acknowledge User;

CHECK Login Status();

Patients\_Details Entered Successfully;

END IF

CALL Patients\_Registration\_Page\_Generator();

DISPLAY Registration\_Form;

END IF

ACCEPT User\_Name();

ACCEPT Password();

GET Patients \_Details FROM Patients \_db;

VALIDATE Patients \_Details();

GIVE System Access;

END

## Component details: Launch Patients Control

|  |  |
| --- | --- |
| ***Component Name*** | *Launch Patients Control* |
| ***Kind of Component*** | *Sub-Module* |
| ***Responsibilities*** | Authenticate Proper Patients of System |
| ***Processing*** | 1. Display Patients Registration Form 2. Accept Validate and Store Patients Information |
| ***Reference*** | None |
| ***Constraints*** | New Patients only can use this functionality |
| ***Composition*** | Store Patients information in the user database. |
| ***Resources*** | Patients\_db |
| ***Interactions*** | Patients Fill up UserID and Password |
| ***Interface/Exports*** | Displays Authentication of Patients Registration Form |

## Procedure Definition Language (Pseudo-code): Launch Patients Control

INTERFACE: Patients Registration Form

BEGIN

Patients Launches the System Application

CALL Registration\_Form();

CALL Login\_Page();

System connects to the Patients \_db

Check Data Connection

IF Data Connection=On

Continue;

ELSE

Data Connection=On;

END IF

CALL Registration\_Form();

IF User Selects Get User Details;

GET Patients \_Details

CONNECT User\_db

Display Patients \_Details();

CREATE Patients \_Account;

Display Patients \_Account\_Page();

User Enters USER\_Name;

User Enters USER\_Password;

CHECK User\_name\_Availability;

CHECK Password\_Availability;

VALIDATE User\_Password();

Patients ACCOUNT created Successfully;

GET Patients Details();

GET Patients Details();

CREATE Patients \_AccountDetails();

LOAD Patients \_Details();

DISPLAY Patients \_AccountDetails();

CREATE Patients \_db\_details();

GET Patients \_db\_connection;

END IF

CALL Patients Login\_Pager();

DISPLAY Login\_Page;

END IF

ACCEPT User\_Name();

ACCEPT Password();

GET User Details FROM Patients \_db;

VALIDATE Patients \_Details();

GIVE System Access;

Patients \_Account Successfully;

END

## Component Details: Book Appointment

|  |  |
| --- | --- |
| ***Component Name*** | *Book Appointment* |
| ***Kind of Component*** | *Sub-Module* |
| ***Responsibilities*** | To book an appointment for the requesting patient. |
| ***Processing*** | 1. Display appointment booking Form . 2. Accept Doctor information and appointment timing and store the information. |
| ***Reference*** | None |
| ***Constraints*** | Only registered patients can use this functionality. |
| ***Composition*** | Store appointment details in the appointmentr database. |
| ***Resources*** | Appointments\_db |
| ***Interactions*** | Patients chooses the doctor,date and time for appointment. |
| ***Interface/Exports*** | Displays appointment booking Form. |

## 1.1.4.1 Procedure Definition Language (Pseudo-code):Book Appointment

INTERFACE: Appointment Booking Form.

Patients Launches the System Application

CALL Login\_Page();

System connects to the Patients \_db

Check Data Connection

IF Data Connection=On

Continue;

ELSE

Data Connection=On;

END IF

DISPLAY Login\_Page;

ACCEPT User\_Name();

ACCEPT Password();

GET User Details FROM Patients \_db;

VALIDATE Patients \_Details();

GIVE System Access;

Patients \_Account Successfully;

CALL Appointment\_book();

ACCEPT doctor\_specialization;

ACCEPT doctor;

ACCEPT date;

ACCEPT time;

Call submit();

System connects to the appointments \_db;

Store the appointment information.

END.

## Component Details: Appointment History

|  |  |
| --- | --- |
| ***Component Name*** | *Appointment history* |
| ***Kind of Component*** | *Sub-Module* |
| ***Responsibilities*** | To show appointment history of the patient. |
| ***Processing*** | 1. Display appointment history of the patient by accessing appointment\_db. |
| ***Reference*** | None |
| ***Constraints*** | Only registered patients can use this functionality. |
| ***Composition*** | Access appointment details from the appointment database. |
| ***Resources*** | Appointments\_db |
| ***Interactions*** | Patient click on the appointment history page. |
| ***Interface/Exports*** | Displays appointment history of the patient. |

## 1.1.5.1 Procedure Definition Language (Pseudo-code): Appointment History

INTERFACE: Appointment Booking Page.

Patients Launches the System Application

CALL Login\_Page();

System connects to the Patients \_db

Check Data Connection

IF Data Connection=On

Continue;

ELSE

Data Connection=On;

END IF

DISPLAY Login\_Page;

ACCEPT User\_Name();

ACCEPT Password();

GET User Details FROM Patients \_db;

VALIDATE Patients \_Details();

GIVE System Access;

Patients \_Account Successfully;

click Appointment\_history;

System connects to the appointments \_db;

Fetches all the previous and current appointments based on patients

Username.

Displays on the appointment\_history page.

END.

## Component Details: View Medicines

|  |  |
| --- | --- |
| ***Component Name*** | *View Medicines* |
| ***Kind of Component*** | *Sub-Module* |
| ***Responsibilities*** | To show prescribed medicines of the patient |
| ***Processing*** | 1. Display medicines of the patient by accessing appointment\_db. |
| ***Reference*** | None |
| ***Constraints*** | Only registered patients can use this functionality. |
| ***Composition*** | Access medicine details from the appointment database. |
| ***Resources*** | Appointments\_db |
| ***Interactions*** | Patient click on the view medicine page. |
| ***Interface/Exports*** | Displays prescribed medicines of the patient. |

## 1.1.6.1 Procedure Definition Language (Pseudo-code): View Medicines

INTERFACE: View Medicines Page.

Patients Launches the System Application

CALL Login\_Page();

System connects to the Patients \_db

Check Data Connection

IF Data Connection=On

Continue;

ELSE

Data Connection=On;

END IF

DISPLAY Login\_Page;

ACCEPT User\_Name();

ACCEPT Password();

GET User Details FROM Patients \_db;

VALIDATE Patients \_Details();

GIVE System Access;

Patients \_Account Successfully;

click view\_medicines page;

System connects to the appointments \_db;

Fetches all the medicines prescribed for the patient by patient id.

Displays on the view\_medicines page.

END.

## 1.2 Component Details: Doctor Login

|  |  |
| --- | --- |
| ***Component Name*** | *Doctor Login* |
| ***Kind of Component*** | *Module* |
| ***Responsibilities*** | Doctor login and verification. |
| ***Processing*** | 1. Accept doctor username and password. |
| ***Reference*** | None |
| ***Constraints*** | Only registered doctors can use this functionality. |
| ***Composition*** | Access doctor details from the doctors database. |
| ***Resources*** | Doctors\_db. |
| ***Interactions*** | Patient click on the view medicine page. |
| ***Interface/Exports*** | Displays prescribed medicines of the patient. |

## 1.2.1 Procedure Definition Language (Pseudo-code): Doctor Login

INTERFACE: Doctor login page.

Doctor Launches the System Application

CALL Login\_Page();

System connects to the Patients \_db

Check Data Connection

IF Data Connection=On

Continue;

ELSE

Data Connection=On;

END IF

DISPLAY Login\_Page;

ACCEPT User\_Name();

ACCEPT Password();

GET User Details FROM Doctors \_db;

VALIDATE Doctors \_Details();

GIVE System Access;

Doctor \_Account Successfully;

REDIRECT TO doctor\_dashboard.

END.

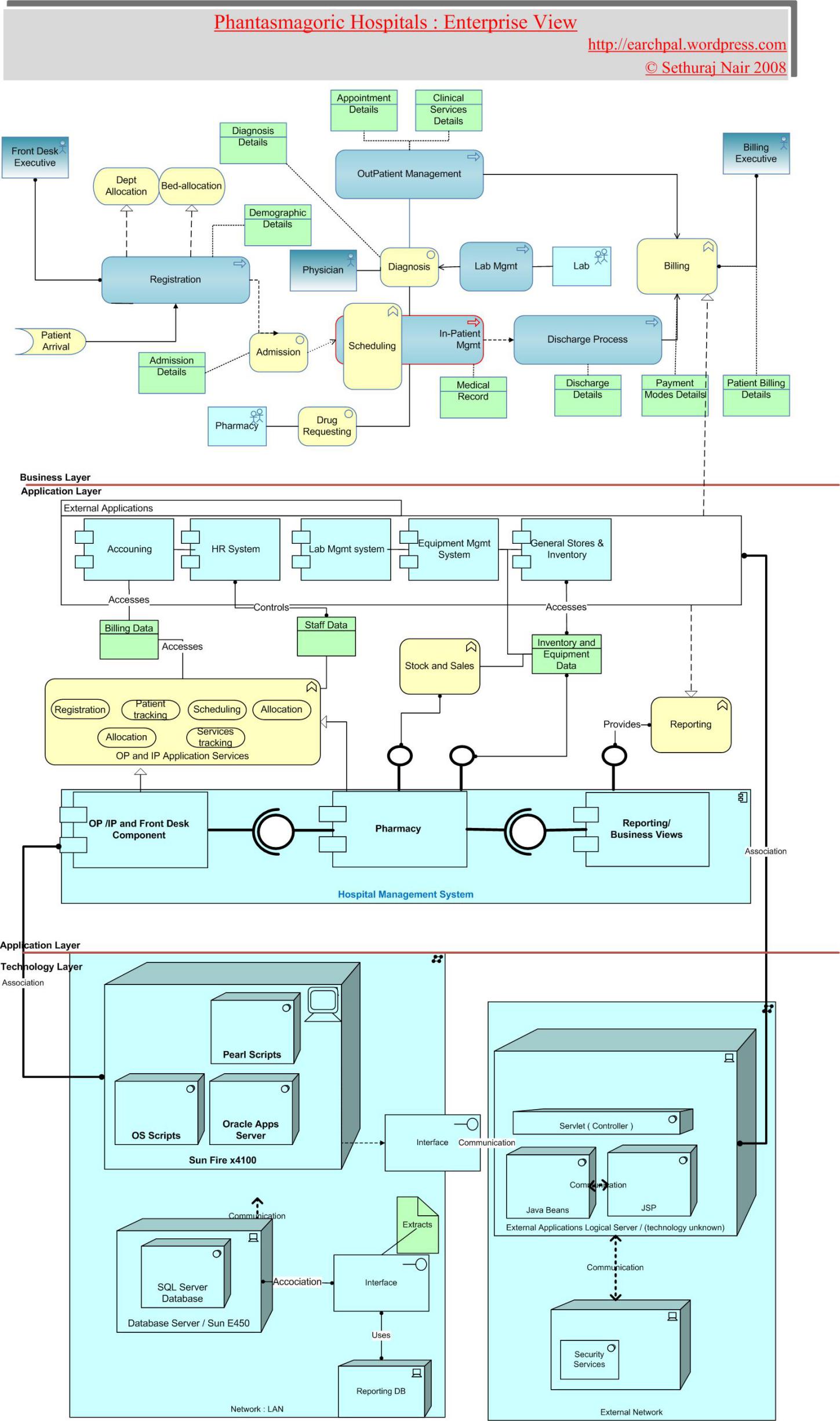
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**1. INTRODUCTION**

*The software engineering community realized that software architecture is not only about structures (components and interfaces), but also about system behavior (interaction between components, protocols). Furthermore, this community introduced an architectural design phase in the system life cycle, in which requirements should be satisfied and which should serve as a basis for detailed design activities. Researchers and engineers in software engineering have adopted the term 'architecture' as well. Nevertheless, there is no consensus about the subject; no universally-accepted definition of the term 'architecture' is agreed upon.*

* *Perry and Wolf (1992) consider a software architecture as a set of architectural elements that have a particular form. Similar to Zachman and Van Waes, they distinguish three different classes of architectural elements: processing, data, and connecting elements. Perry and Wolf consider an architecture as a necessary framework in which requirements are satisfied and which serves as a basis for the design.*
* *Garlan et al. (1995) stated that a system's architectural design is concerned with describing its decomposition into computational elements and their interactions. Design tasks at this level include organizing the system as a composition of components; developing global control structures; selecting protocols for communication, synchronization, and data access; assigning functionality to design elements; physically distributing the components; scaling the system and estimating performance; defining the expected evolutionary paths; and selecting among design alternatives.*
* *Soni et al. (1995) stated that software architecture is concerned with capturing the structures of a system and the relationships among the elements both within and between structures. Software architectures describe how a system is decomposed into components, how these components are interconnected, and how they communicate and interact with each other. Based on a survey on the role of architecture in the design and development of large systems within Siemens, Soni et al. notice that different structures are used at different stages of the development process. Each structure describes the system from a different perspective.*
* *Soni et al. argue that the four different architectures they distinguished are needed because of the growing complexity of software throughout history (see Figure 1.3). Initially, only the code architecture was required. The module and execution architecture became necessary when systems became larger and distributed. Now, software engineers would like to use communicating objects and assemblies of reused components. Therefore, a high-level structure is described in the form of a conceptual architecture. On the other hand, Zachman and especially Van Waes reason that their various architectures are wanted as representation for each of the involved actors.*
* *Garlan and Perry (1995) found that the term 'architecture' is used in a number of ways in software engineering. Among the various uses are a) the architecture of a particular system, as in 'the architecture of this system consists of the following three components,' b) an architectural style, as in 'this system adopts a client-server architecture,' and c) the general study of architecture, as in 'the papers in that issue are about architecture.'*
* *A discussion group at Carnegie Mellon University's Software Engineering Institute developed a typical definition: the structure of the components of a program/system, their interrelationships, and principles and guidelines governing their design and evolution over time. They represent a spectrum in the software architecture community about the emphasis that should be placed on architecture - its constituent parts, the whole entity, the way it behaves once built, or the process of building it. Taken together, they reflect the various aspects of software architecture.*
* *Software architecture is concerned with the design and implementation of IT systems. From the viewpoint of architectural activity, software architecture covers the steps necessary to design and implement architecture. With regard to the structural aspect of architecture, software architecture describes the structures of IT systems. From this point on, the terms “IT system” and “system” are used synonymously provided no explicit differentiation is necessary. A system is a unit that consists of integrated software and hardware building blocks and exists for the purpose of fulfilling a functional objective. To achieve this objective, it communicates with its environment and must take account of the conditions defined by the environment.*



1. **ARCHITECTURE OBJECTIVES**
   * ***To manage complexity****: An architectural model allows one to present the essence of a complex system in a (simple) model. An architectural model supports the ability to comprehend complex systems; it presents them at a level of abstraction at which a system's high-level design can be understood. It supports the analysis of relationships as an aid to understand complexities in a design environment. In particular, an architecture is needed in complex, dynamic environments (Van Waes, 1991). Zachman states that the increased scope of design and levels of complexity of system implementations are forcing the use of architectural models for defining and controlling the interfaces and the integration of the system components (Zachman, 1987). Architectural models abstract away from details instead of from the essential complexity. Brooks claims that 'the complexity of software is an essential property, not an accidental one' (Brooks, 1995; p. 183). Descriptions of a software entity that abstract away its complexity often abstract away its essence.*
   * ***To serve as a set of specifications****: An architecture may be seen as a result of the design process. Itis laid down in specifications, which are derived from the requirements, and from which the desired system can be built. Specifying an architecture is concerned with the specification of components, their interactions, and the constraints on these entities and their interactions. These unambiguous specifications define the scope of future development activities, and serve as a basis for further design and implementation activities.*

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* + ***Means of communication****: Furthermore, an architectural model may play the role of a means of communication during a system (re-)design process. The architect can use it to analyze various aspects of the system to be designed, thus providing the various parties concerned with a basis for discussion and decision-making. By producing order in chaos, architectural models help each party to clarify its perception of the problem .Explanation of the relevant aspects of the problem area, and the possible relationships between them, supports the various actors to focus their attention on the essential elements, thus providing a basis for discussion of the problems.*
  + ***To indicate the most vital system elements****: Furthermore, the architecture determines the nature and quality of a system. As such, an architectural model indicates the invariant or most vital system elements, which must be treated carefully during system re-design. Systems evolve and are adapted to new uses, just as buildings change over time and are adapted to new uses. One frequently accompanying property of evolution is an increasing brittleness of the system, caused by violations of the architecture. Violations of the architecture frequently lead to an increase in problems in the system and contribute to an increasing resistance to change, or at least to changing gracefully.*
  + ***Means to reduce the impact of changes****: Another role of an architecture involves its contribution to the effective re-design of a system. The architecture should reduce the impact of changes to the lower component levels, and to as few components as possible. Both for shop floor control systems and for products, it is advantageous to use as many parts of the existing system or product design as possible. In a re-engineering trajectory, an architectural model of the system allows one to pinpoint and discuss the areas requiring major change, and to integrate the new specifications into the existing model. Furthermore, architectural change is not so much determined by the system components, as well by the interfaces between these components; the ease with which components can be modified, replaced, or with which the system can be extended by new components is dependent on the extent to which the interfaces of the new components match those of the old ones.*
  + ***Means to gain strategic benefits****: Finally,(product) architecture may have certain strategic importance for a company. The development of a new product brings together a wide range of technologies. Only a few of these technologies contribute to ultimate competitive advantage. Successful companies do not compete on (and even give away) the enabling technologies on which their core utility is based. By the architectural design of functions that can be filled in by cheap, standard components, companies profit from the strong competition in the markets for these components, and are free to focus on their true sources of competitive value. In addition, a company might extend the value of its product by publishing the product's interfaces to the outside world. Other enterprises might use this product as an indispensable part for their own products*

1. **SYSTEM DESIGN SPECIFICATION**

*A modular architecture may naturally result in a layered architecture; modules are assigned to specific layers. Layers reflect design decisions based on allowable relations and interfacing constraints. The layers in an architecture represent allowable interfaces among modules. Modules within a layer can communicate with each other. Modules in different layers can communicate with each other only if their respective layers are adjacent (Soni et al., 1995). A layer builds on its underlying layer, which at its turn builds on its underlying layer as well. Consequently, a layer explicitly uses the functionality of its underlying layer, and implicitly uses the functionality of all layers underneath its underlying layer.*

*Layers are used mainly to solve mapping problems. The mapping task is decomposed in layers: each layer performs a specific part of the mapping. In this sense, the division in layers is part of an architecture. The advantage of layers is the flexibility: changes can be made inside a layer without affecting other layers. A disadvantage of a layered architecture is its rigidity: new layers are hard to be shoved in between existing layers, since this requires a (major) change of interfaces. Examples of the application of layers in mappings are:*

* *the targets of an enterprise must be mapped on its physical processes; therefore, a strategical, tactical, and operational layer are distinguished;*

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|  |  |  | |
| **Layer-1** |  | **User interface of the application** | |
|  |  |  | |
| **Purpose** |  | This is the most important concept use for interaction with the user . | |
|  |  |  | |
| **Related Components** |  | User Interfaces. | |
|  |  |  | |
| **Software Interfaces** |  | Multiple interfaces | |
|  |  |  | |
| **Composition Style** |  | **Generalization** | |
|  |  |  | |
| **Communication** |  | **Vertical** | |
| **Pattern** |  |  |  |
|  |  |  | |
| **Implementation** |  | 1. Collection of data | |
| **Steps** |  | 2. | Create a database for that data |
|  |  | 3. | Access database by the system easily |
|  |  | 4. | Display the list of names of hospitals |
|  |  | 5. | Consider users location |
|  |  | 6. | According to users location provide hospital details |
|  |  | 7. Display locations of hospitals | |
|  |  |  |  |
|  |  |  | |
| **Layer-2** |  | **Data Processing of the application** | |
|  |  |  | |
| **Purpose** |  | This concept is process the data of a system. | |
|  |  |  | |
| **Related Components** |  | Combinational goal components | |
|  |  |  | |
| **Software Interfaces** |  | Multiple interfaces | |
|  |  |  | |
| **Composition Style** |  | **Aggregation** | |
|  |  |  | |
| **Communication** |  | **Horizontal** | |
| **Pattern** |  |  |  |
|  |  |  |  |
| **Implementation** |  | 1. | Access Data |
| **Steps** |  | 2. Remove data inconsistency factors | |
|  |  | 3. Remove unnecessary data from the database | |
|  |  | 4. | organize data in a proper format suitable for the users |
|  |  | 5. | Suitable Modelling |
|  |  | 6. | Check and validate all the methods that are used |
|  |  | 7. Check whether that method is suitable or not | |
|  |  | 8. | Generate proper locations and store in the database |
|  |  |  | |
| **Layer-3** |  | **User Queries Processing** | |
|  |  |  | |
| **Purpose** |  | The User Query Processing is done in this layer of components. | |
| **Related Components** |  | Goal 4 and Goal 5 components | |
|  |  |  | |
| **Software Interfaces** |  | Layer 1 and Layer 4 Interfaces | |
|  |  |  | |
| **Composition Style** |  | **Composition** | |
|  |  |  | |
| **Communication** |  | **Horizontal** | |
| **Pattern** |  |  |  |
|  |  |  | |
| **Implementation** |  | 1. Accept Query | |
| **Steps** |  | 2. | Extract the attributes required by the query |
|  |  | 3. Gain Database access | |
|  |  | 4. | Verify Database access |
|  |  | 5. Query the required values from database | |
|  |  | 6. | Validate values from the response |
|  |  | 7. | Send appropriate data to the interface |

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| --- | --- | --- | --- |
| **Layer-4** |  | **Access of the data** | |
|  |  |  | |
| **Purpose** |  | The Data Access, analyzing and Acquiring is done in this concept. | |
|  |  |  | |
| **Related Components** |  | Combination of goals are used | |
|  |  |  | |
| **Software Interfaces** |  | Multiple layer interfaces | |
|  |  |  | |
| **Composition Style** |  | **Aggregation** | |
|  |  |  | |
| **Communication** |  | **Vertical** | |
| **Pattern** |  |  |  |
|  |  | |  |
| **Implementation** |  | 1. | Fetch data from database |
| **Steps** |  | 2. | Validate received data |
|  |  | 3. | Check whether it provide suitable location |
|  |  | 4. use stored and valid data from the database | |
|  |  | 5. | Build hospital profile |
|  |  | 6. | Set correct info in it |
|  |  | 7. | Data of hospitals on different treatments |
|  |  | 8. | Analyse tables and columns in the database |

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**T.Y. B. Tech.**

**CS 303: Software Engineering Laboratory**

Assignment No: 9

**e-Healthcare**

**System Review and Acceptance**

***2018-19***

***Version 1.1***

|  |  |  |  |
| --- | --- | --- | --- |
| Project Group Information | | | |
| Roll. No. | **Gr. No.** | **Name** | **Roles** |
| 37 | **161077** | **Rohit Panicker** | **Front end** |
| 43 | **161075** | **Sanket Gaikwad** | **Basck End** |
| 45 | **161831** | **Sumeet Deshpande** | **PHP** |
|  |  |  |  |

**Approved By:**

**Academic Year: 2017-18 Semester: I**

# INTRODUCTION

*At the time of the scheduled peer review, ensure proper representation and preparation by the reviewers. Provide clarifications on the work products. Present comments and listen to the comments of the other reviewers. Comments can be presented either by page or by reviewer. Keep the comment discussions short with a focus on detection, not correction. Editorial comments are provided separately and are not discussed at the scheduled review.*

*Participate in categorizing comments. The comments will be categorized and documented as errors, defects, and action items. Refer to the definitions for the categorization rules, which are summarized as follows:*

* *Errors (i.e., problems in the material currently under peer review).*

*Optionally, errors are subcategorized as major (affects functionality and/or performance) and minor (does not affect functional- ity and/or performance).*

* *Defects (i.e., problems in materials previously peer reviewed).*

*Optionally, defects are also subcategorized as major and minor.*

*Note: Defects will further be categorized as delivered or undelivered in the program’s change request system.*

* *Action items (i.e., unresolved comments requiring further investigation)*
* *A comment can remain categorized as a comment if the reviewers and presenters agree that there is no error, defect, or action item required.*

*To complete the peer review you must identify errors, defects, and action items to be resolved and documented. If needed, follow the program’s or project’s defined decision-making processes to elevate and reconcile any issues encountered in resolving peer review errors, defects, or action items with appropriate stakeholders. To ensure completion, per- form the following:*

* *Correct all errors and update the peer review information to indicate that the error is resolved.*
* *Submit change request paperwork for all defects. The status and tracking of the defect corrections are then handled through the change request system. The defects associated with the peer review should indicate this transfer and are categorized as resolved, allowing the peer review to be closed.*
* *Resolve and complete all action items. If any action items cannot be completed within the two-week period, these action items should be moved to the program- or project-level action item tracking system. The action items associated with the peer review should indicate this transfer and are categorized as resolved, allowing the peer review to be closed.*

# REVIEW TYPES

*Design and code reviews promise to improve software quality, ensure compliance with standards, and serve as a valuable teaching tool for developers. As with most practices, there are subtle nuances surrounding how they're performed that can dramatically affect their value. In some organizations, reviews are a valuable aspect of the software lifecycle. In others, they are a necessary evil tainted with political bureaucracy and big egos. Suboptimal reviews conducted late in the lifecycle are often misguided due to few objective guidelines that help guide the review process. When used throughout the development lifecycle, code and design quality metrics are valuable inputs to the review process.*

* 1. *Reviews Increase Agility Continuous Integration.*

*Agile practices are abundant, and for many teams interested in increasing their agility, valuable energy and resources have been devoted to improving these practices. Because of this, many teams have abandoned reviews while emphasizing other aspects of agility. But, reviews are an important tool in the agile toolkit.*

*A driving principle of the Agile Manifesto is continuous attention to technical excellence. Another is embracing and harnessing change as an opportunity to increase customer advantage. For developers, change often begins and ends with modifications to the source code. A poorly designed application with smelly code is a breeding ground for risk that makes change incredibly difficult, and is the greatest technical inhibitor to increased agility. Effective reviews that emphasize design quality and code cleanliness are an important aspect of increased agility. Reviews done right help ensure continuous attention to technical excellence. Unfortunately, not all reviews are done right.*

*1.2 Review Worst Practices*

*Some development teams find reviews a healthy and valuable asset to developers and the project team. Other teams realize little value from their review process. There are numerous causes for painful and ineffective reviews. Some symptoms of ineffective reviews include:*

* *Witch hunt reviews - Many reviews degrade quickly into attack and defend mode. This often occurs because the developer who wrote the code feels attacked and threatened when reviewers make direct and opinionated statements about the code. Nothing could be less productive.*
* *Curly brace reviews - Some reviews emphasize formatting and comments instead of more serious problems. Is placement of curly braces and misspelled comments really that important? Curly brace reviews are feeding ground for the anal retentive, and provide no real value.*
* *Blind reviews - Often times, reviewers walk into the review meeting having never laid eyes on the code they are about to review. Most of the review time is spent trying to figure out what the code does. Spending time in the review meeting attempting to understand the code instead of reviewing it for more serious ailments is a waste of time.*
* *Exclusionary reviews - Many times, the code provided for the review is only a sampling of the code written. For example, unit tests might be excluded from the review. In an unhealthy review environment, providing impartial and incomplete code listings will leave the reviewers wondering how the code actually works.*
* *Tree killer review - If you can't baffle them by providing half of what they need to understand the code, then maybe overwhelming them by providing thousands of lines of code might work. Waiting until codebase is incredibly large to host the first review is entirely ineffective. Not only is it to difficult to provide effective feedback on a large codebase, these reviews are often held late in the lifecycle and do not allow the developer to improve her code based on the feedback received.*
* *Token review - It's not uncommon for management to dictate that reviews be held. Token reviews are typically held for political reasons. Management wants to ensure that all code is reviewed for auditing purposes. Unfortunately, developers realize very little value surrounding these reviews. Any problems found are not fixed unless they are absolutely critical. Since the primary motivation is an audit trail for management, the team has little motivation to improve the code.*
* *World review- The reviews conducted with great number of people in attendance. This can be incredibly intimidating for the developers whose code is being reviewed, and it is not sure what value it provides to invite so many people. A few developers, up to five, should serve all the needs required of the review process. If more people want to provide input, there are better ways.*

*The Design checklist is as follows:*

* *Deficiencies and conflicts in requirements, architecture, or program/project plans will be reported.*
* *Design decisions and the decision rationales will be recorded according to plans and defined processes.*
* *Top-level software components of the software end item will be identified and described.*
* *Static relationships between top-level software components will be defined.*
* *Dynamic relationships between top-level software components will be defined.*
* *The concepts of execution of the software end item and its components will be defined.*
* *External interfaces of the software end item and its components will be identified and described.*
* *Top-level software components will be decomposed into lower-level software units.*
* *Internal interfaces between software units will be identified and described according to the standards identified by the project.*
* *Design traceability data will be documented according to plans, processes, and product standards.*
* *Design definitions will be documented according to plans, defined processes, and standards.*
* *Measurement and estimated data will be collected.*
* *Applicable work products will be submitted for peer reviews in accordance with project plans.*
* *Applicable work products will be submitted for control in accordance with program or project plans.*

# VERIFICATION SUMMARY

*Note: The verification summary is required to be written for all the objectives and processes as they were detailed as User Stories. Replicate the standard template for objectives and process for the goals.*

# VERIFICATION STEPS: GOAL-1

|  |  |
| --- | --- |
| Objective-1 | Acquire patient Data |
| Purpose | This will ensure the reliability and correctness of system. |
| Target Audience | Customers |
| Status | Completed |
| Role: | **As an**end user, developer |
| Verification Steps | 1. Verify that patient profiles creation request is registered. |
|  | 2. Verify that patient profiles are built. |
|  | 3. Verify created database and schema. |
|  | 4. Verify that patient data has been fetched. |
|  | 5. Verify Database structure. |
|  | 6. Verify that patient database has been populated. |
|  | 7. Verify that patient database backup is available. |
|  | 8. Verify that the backup accessible. |
|  | 9. Verify proper database privileges and security. |
|  | 10. Verify patient page content. |
|  | 11.Verify that patient data has been fetched. |
|  | 12.Verify that the backup accessible. |
|  | 13. Verify that required fields are correctly decided. |
|  | 14.Verify that the patient details are added |
|  | 15.Verify database structure |
|  | 16.Verify that the backup accessible. |

|  |  |
| --- | --- |
| Process-1 | Acquire Patient Details |
| Purpose | Collect patient details. |
| Target Audience | Internal Stakeholders |
| Status | Completed |
| Role: | **As a**developer |
| Verification Steps | 1. Verify that required fields are correctly decided. |
|  | 2. Validate the patient details. |
|  | 3. Verify that the fields in database are created |
|  | 4. Validate patient profile inputs |
|  | 5. Verify that the patient details are added |
|  | 6. Validate the data limits and bounds |
|  | 7. Verify population of the patient database |
|  | 8.Verify proper indexing of the database |
|  | 9.Verify database structure |
|  | 10. Verify that changes made are kept track of. |

|  |  |
| --- | --- |
| Process-2 | Re-Verify Patient Details |
| Purpose | To keep the data relative and precise. |
| Target Audience | Developer |
| Status | On-going |
| Role: | **As a**developer |
| Verification Steps | 1.Validate Patient profile format |
|  | 2.Validate patient attribute ranges |
|  | 3.Verify patient field details. |
|  | 4.Verify that abnormalities, if any are detected |
|  | 5.Verify that the abnormality can be found and accessed |
|  | 6.Verify the method of generating improvised data |
|  | 7.Validate corrected abnormality |
|  | 8.Verify that the changes have been committed on the database |
|  | 9.Verify that the data that was corrected wasn’t in use. |
|  | 10.Verify that the changes are logged |

|  |  |
| --- | --- |
| Objective-2 | Analyse patient Data |
| Purpose | To decide the patient analysis process of the system and the methodology to follow. |
| Target Audience | Internal Stakeholders |
| Status | Completed |
| Role: | **As a**developer |
| Verification Steps | 1. Verify Organisation of database attributes |
|  | 2. Verify the Design patterns for attributes |
|  | 3. Verify the output parameters |
|  | 4. Verify the important parameters priority |
|  | 5. Verify the short-listed attributes |
|  | 6. Verify Organisation of the parameters |
|  | 7. Verify the formulated observations |
|  | 8. Verify correspondence with Analysis team |
|  | 9. Verify the consolidation of analysis process |
|  | 10. Verify the final analysis methodology |
|  | 11.Verify that patient data has been fetched. |
|  | 12.Verify that the backup accessible. |
|  | 13. Verify that required fields are correctly decided. |
|  | 14.Verify that the patient details are added |
|  | 15.Verify database structure |
|  | 16.Verify that the backup accessible. |

|  |  |
| --- | --- |
| Process-1 | Filter Relevant Data |
| Purpose | The purpose is to get detailed, relevant data about patient which is filtered and curated. |
| Target Audience | Customers |
| Status | On-going |
| Role: | **As an**end user |
| Verification Steps | 1. Verify that a certain patient can be found |
|  | 2. Verify that the transfer value of patient can be accessed |
|  | 3. Verify that a curated list of patients can be generated |
|  | 4. Verify that similar patients can be found |
|  | 5. Verify that patients can be ordered by date. |
|  | 6. Verify that all patients can be seen |
|  | 7. Verify that statistics indicating on field behaviour can be accessed |
|  | 8. Verify that the patient details can be accessed |
|  | 9. Verify that patient’s current appointment can be seen |
|  |  |

|  |  |
| --- | --- |
| Process-2 | Ascertain Data Correctness |
| Purpose | This will ensure the reliability and correctness of system. |
| Target Audience | Customers |
| Status | Completed |
| Role: | **As an**end user, developer |
| Verification Steps | 1. Validate correct patient data |
|  | 2. Validate exact information reception |
|  | 3. Verify appropriate info of the patient |
|  | 4. Validate patient Data accessibility |
|  | 5. Verify that transfer value is accessible |
|  | 6. Verify patient value prediction feasiblity |
|  | 7. Verify precise database |
|  | 8. Verify data validation process |
|  | 9. Verify background checks |
|  | 10. Verify the data sources |

# VERIFICATION STEPS: GOAL-2

|  |  |
| --- | --- |
| Objective-1 | Extract patient Information |
| Purpose | Make groups in the database according to patient’s id to help distinguish them. |
| Target Audience | External Stakeholders |
| Status | On-going |
| Role: | **As a** *system administrator* |
| Verification Steps | 1. Verify that more than 1 patient can be added. |
|  | 2. Validate saved data. |
|  | 3. Validate patient Data Extraction. |
|  | 4. Validate appointment date |
|  | 5. Verify that other patient details can be accessed. |
|  | 6. Verify a patient’s form can be assessed. |
|  | 7. Verify that market values can be found. |
|  | 8. Verify that other patients can be searched. |
|  | 9. Verify that patient background information is available. |
|  | 10. Verify that all parts of system are accessible to user. |
|  | 11.Verify that patient data has been fetched. |
|  | 12.Verify that the backup accessible. |
|  | 13. Verify that required fields are correctly decided. |
|  | 14.Verify that the patient details are added |
|  | 15.Verify database structure |
|  | 16.Verify that the backup accessible. |

|  |  |
| --- | --- |
| Process-1 | Extract Patient background details |
| Purpose | It will make it easier to search patients. |
| Target Audience | External Stakeholders |
| Status | On-going |
| Role: | **As a** *system administrator* |
| Verification Steps | 1. Verify that patient id and details are listed. |
|  | 2. Verify that the patient id can be searched. |
|  | 3. Verify patients can be filtered according to date. |
|  | 4. Verify that list contains patients with same position. |
|  | 5. Verify patient’s other positions are listed . |
|  | 6. Verify patient’s other positions are listed . |
|  | 7. Verify that patient rating is listed. |
|  | 8. Verify that patient value is listed. |
|  | 9. Validate value based on other similar patients. |
|  | 10. Verify that patient’s potential is listed. |

|  |  |
| --- | --- |
| Process-2 | Extract Patient disease information |
| Purpose | It will help obtain a better priority. |
| Target Audience | Customers |
| Status | Completed |
| Role: | **As a**user |
| Verification Steps | 1. Verify that patient details are displayed. |
|  | 2. Verify that patient diseaseis displayed. |
|  | 3. Verify that club fixtures are shown. |
|  | 4. Verify Club form from the news. |
|  | 5. Verify that transfer prices can be compared. |
|  | 6. Verify that patient id are displayed. |
|  | 7. Verify that patient weaknesses can be checked. |
|  | 8. Verify the patient’s chances of getting injured. |
|  | 9. Validate the patient statistics comparison. |
|  | 10. Validate the patient profile pictures. |

|  |  |
| --- | --- |
| Objective-2 | Classify patients |
| Purpose | To make classes of patients as per registeration date. |
| Target Audience | Internal Stakeholders |
| Status | Completed |
| Role: | **As a**Developer |
| Verification Steps | 1. Verify correct data is acquired. |
|  | 2. Verify data distribution is performed. |
|  | 3. Verify inconsistencies are fixed. |
|  | 4. Verify that groups are prototyped. |
|  | 5. Verify patient groups are established. |
|  | 6. Verify the patient groups are accessible. |
|  | 7. Validate the basis of grouping. |
|  | 8. Validate encoding method is chosen. |
|  | 9. Validate encoding analysis is established. |
|  | 10. Verify results are integrated. |
|  | 11.Verify that patient data has been fetched. |
|  | 12.Verify that the backup accessible. |
|  | 13. Verify that required fields are correctly decided. |
|  | 14.Verify that the patient details are added |
|  | 15.Verify database structure |
|  | 16.Verify that the backup accessible. |

|  |  |
| --- | --- |
| Process-1 | Group patients |
| Purpose | Decide attributes that can decide classes and groups. |
| Target Audience | Customers/ Stakeholders |
| Status | On-going/ Completed |
| Role: | **As a**Developer |
| Verification Steps | 1. Verify patient data is acquired. |
|  | 2. Validate correct attributes are identified. |
|  | 3. Validate attribute wise data is examined. |
|  | 4. Verify attributes are extracted for grouping. |
|  | 5. Verify inconsistencies are detected. |
|  | 6. Validate inconsistencies are repaired and normalised. |
|  | 7. Validate correctness of data is verified. |
|  | 8. Validate patient groups creation. |
|  | 9. Verify the groups are demonstrated. |
|  | 10. Validate patient groups are delivered. |

|  |  |
| --- | --- |
| Process-2 | Verify patient Groups |
| Purpose | Verify patient groups formed. |
| Target Audience | Customers/ Stakeholders |
| Status | On-going/ Completed |
| Role: | **As a**developer |
| Verification Steps | 1. Verify patient groups are accessible. |
|  | 2. Verify patient groups are analysed. |
|  | 3. Validate conceptualisation of patient groups is done. |
|  | 4. Verify the basis derived is validated. |
|  | 5. Verify encoding technique is selected. |
|  | 6. Verify technique is valid. |
|  | 7. Validate encoding analysis. |
|  | 8. Verify modified encoding technique. |
|  | 9. Validate results of analysis. |
|  | 10. Verify integrated results. |

# VERIFICATION STEPS: GOAL-3 Building user profile.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Objective-1** |  |  |  | **Collect user data** |  |  |
|  |  |  |  |  |  |  |
| **Purpose** |  |  |  | Make a Database in standard form and provide suitable data easily |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | |  |  |
| **Target Audience** |  |  | Customers/ Stakeholders | |  |  |
|  |  |  |  |  |  |  |
| **Status** |  |  |  | On-going |  |  |
|  |  |  |  | |  |  |
| **Role:** |  |  | **As a** *developer* | |  |  |
|  |  |  |  |  |  |  |
| **Verification Steps** |  |  |  | 1.Verify the overall raw type data of hospitals |  |  |
|  |  |  |  | |  |  |
|  |  |  | 2.Validate this collected raw data | |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | 3.Verify that unnecessary thing are removed from it |  |  |
|  |  |  |  | |  |  |
|  |  |  | 4.Verify the divison and comparison of all factors | |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | 5.Verify the getting total knowledge about base of application or domain |  |  |
|  |  |  |  | |  |  |
|  |  |  | 6.Verify that the domain knowledge gets represented in features | |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | 7.Verify features are standardized |  |  |
|  |  |  |  | |  |  |
|  |  |  | 8.Verify the data availability | |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | 9.Verify different data provision is accomplished |  |  |
|  |  |  |  | |  |  |
|  |  |  | 10.Verify final data with no issues | |  |  |
|  |  |  | 11.Verify that patient data has been fetched. | |  |  |
|  |  |  | 12.Verify that the backup accessible. | |  |  |
|  |  |  | 13. Verify that required fields are correctly decided. | |  |  |
|  |  |  | 14.Verify that the patient details are added | |  |  |
|  |  |  | 15.Verify database structure | |  |  |
|  |  |  | 16.Verify that the backup accessible. | |  |  |
|  |  |  |  |  |  |  |
| **Process-1** |  |  |  | **Data associated with each user is collected.** |  |  |
|  |  |  |  |  |  |  |
| **Purpose** |  |  |  | Capture the relation between the hospitals and patients and remove or discard unnecessary stuff |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | |  |  |
| **Target Audience** |  |  | Customers/ Stakeholders | |  |  |
|  |  |  |  |  |  |  |
| **Status** |  |  |  | Completed |  |  |
|  |  |  |  | |  |  |
| **Role:** |  |  | **As a** *developer* | |  |  |
|  |  |  |  |  |  |  |
| **Verification Steps** |  |  |  | 1.Validate the correct and formatted info |  |  |
|  |  |  |  | |  |  |
|  |  |  | 2.Verify the availability of raw data | |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | 3.Verify that only the relevant factors are present |  |  |
|  |  |  |  | |  |  |
|  |  |  | 4.Verify consistency of selected factors | |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | 5.Validate the transformation of data and factors |  |  |
|  |  |  |  | |  |  |
|  |  |  | 6.Verify the comparison factors between different hospitals | |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | 7.Validate the factors according to hospitals locations |  |  |
|  |  |  |  | |  |  |
|  |  |  | 8.Validate factors by treatments | |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | 9.Validate factors by quick availability |  |  |
|  |  |  |  | |  |  |
|  |  |  |  |  |  |  |
| **Process-2** |  |  |  | **Data verification is done according to the database type.** |  |  |
|  |  |  |  |  |  |  |
| **Purpose** |  |  |  | The main purpose is to generate the actual features of hospitals that provides help to the users |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | |  |  |
| **Target Audience** |  |  | Customers/ Stakeholders | |  |  |
|  |  |  |  |  |  |  |
| **Status** |  |  |  | On-going |  |  |
|  |  |  |  | |  |  |
| **Role:** |  |  | **As a** *developer* | |  |  |
|  |  |  |  |  |  |  |
| **Verification Steps** |  |  |  | 1.Verify Hospital data is in tabular format |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 2.Verify this features are valuable and precise for users | |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | 3.Validate transformations on the features |  |  |
|  |  |  |  | |  |  |
|  |  |  | 4.Validate the transformation of this features | |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | 5.Verify scaled features |  |  |
|  |  |  |  | |  |  |
|  |  |  | 6.Verify the scales of the features | |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | 7.Validate the features in dataset as a whole |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 8.Verify different feature selection strategies | |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  | 9.Validate the application of feature selection strategy to the data |  |  |
|  |  |  |  | |  |  |
|  |  |  | 10.Verify the integration of this features | |  |  |
|  |  | | | |  |  |

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**Department of Computer engineering**

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| --- | --- | --- | --- | --- | --- | --- |
| **Objective-2** |  |  | **Associate collected data** |  |  |  |
|  |  |  |  |  |  |  |
| **Purpose** |  |  | Select a correct and suitable model for verify the results and make changes if required |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Target Audience** |  |  | Customers/ Stakeholders |  |  |  |
|  |  |  |  |  |  |  |
| **Status** |  |  | On-going/ Completed |  |  |  |
|  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* |  |  |  |
|  |  |  |  |  |  |  |
| **Verification Steps** |  |  | 1.Verify the data which is accessed is in proper format |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 2.Verify the different methods |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 3.Verify the application of a methods and its results |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 4.Verify the cross-validation and analysis of methods |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 5.Verify and overview analysis |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 6.Verify selected optimal methods parameters |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 7.Verify the modified parameters |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 8.Verify the cross-validation of changed parameter results |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 9.Verify the use different methods |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 10.Verify the finalization on the methods and parameters |  |  |  |
|  |  |  | 11.Verify that patient data has been fetched. |  |  |  |
|  |  |  | 12.Verify that the backup accessible. |  |  |  |
|  |  |  | 13. Verify that required fields are correctly decided. |  |  |  |
|  |  |  | 14.Verify that the patient details are added |  |  |  |
|  |  |  | 15.Verify database structure |  |  |  |
|  |  |  | 16.Verify that the backup accessible. |  |  |  |
|  |  |  |  |  |  |  |
| **Process-1** |  |  | **Make connection each user profile to the database.** |  |  |  |
|  |  |  |  |  |  |  |
| **Purpose** |  |  | Try to use and implement different statistical models |  |  |  |
|  |  |  | Use and cross-validate them |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Target Audience** |  |  | Customers/ Stakeholders |  |  |  |
|  |  |  |  |  |  |  |
| **Status** |  |  | On-going/ Completed |  |  |  |
|  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* |  |  |  |
|  |  |  |  |  |  |  |
| **Verification Steps** |  |  | 1.Verify the chosen method |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 2.Verify the input data to method is in proper format |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 3.Verify the train test split |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 4.Verify different statistical methods |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 5.Verify the results |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 6.Verify results of different methods |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 7.Verify cross-validation on it |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 8.Verify the analysis of cross-validation results for it |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 9.Validate the output of selected methods |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 10.Verify the analysis |  |  |  |
|  |  |  |  |  |  |  |
| **Process-2** |  |  | **Update the user data accordingly in the database.** |  |  |  |
|  |  |  |  |  |  |  |
| **Purpose** |  |  | Get the method stored from earlier process and validate the changes |  |  |  |
|  |  |  | And apply it |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| **Target Audience** |  |  | Customers/ Stakeholders |  |  |  |
|  |  |  |  |  |  |  |
| **Status** |  |  | On-going/ Completed |  |  |  |
|  |  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* |  |  |  |
|  |  |  |  |  |  |  |
| **Verification Steps** |  |  | 1.Verify the optimal method for access |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 2.Validate the parameters of the methods that used |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 3.Verify the changes in the parameters and the results |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 4.Verify the storage of the results with changed parameters |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 5.Verify the cross-validation of changed parameter results |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 6.Verify the Analysis of the cross-validation result |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 7.Verify the used methods with optimal parameters |  |  |  |
|  |  |  | 8.Verify the testing process of tis methods |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 9.Verify the different methods used in testing |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  | 10.Verify the final method and parameters |  |  |  |

# VERIFICATION STEPS: GOAL-4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Objective-1** |  | **Doctor’s Consultation** | | |  |
|  |  |  |  | |  |
| **Purpose** |  | To recognize user input. | | |  |
|  |  |  |  | |  |
| **Target Audience** |  |  | Customers | |  |
|  |  |  | | |  |
| **Status** |  | Completed | | |  |
|  |  |  |  | |  |
| **Role:** |  |  | **As a** *<type of user>* | |  |
|  |  |  | | |  |
| **Verification Steps** |  | 1. Verify large numbers of hospitals can be added. | | |  |
|  |  |  | |  |  |
|  |  |  | 2. | Verify that information can be found easily. |  |
|  |  |  | |  |  |
|  |  | 3. | | Validate the hospital data in profile page. |  |
|  |  |  | |  |  |
|  |  |  | 4. | Verify all hospitals records visible to the users. |  |
|  |  |  | |  |  |
|  |  | 5. | | Validate the display process of data. |  |
|  |  |  | |  |  |
|  |  |  | 6. | Verify the all treatments related hospitals displayed. |  |
|  |  |  | |  |  |
|  |  | 7. | | Validate the available records from database. |  |
|  |  |  | |  |  |
|  |  |  | 8. | Verify location data is displayed properly |  |
|  |  |  | |  |  |
|  |  | 9. | | Verify that names are listed properly. |  |
|  |  |  |  |  |  |
|  |  |  | 10. Validate the GPS were used. | |  |
|  |  |  | 11.Verify that patient data has been fetched. | |  |
|  |  |  | 12.Verify that the backup accessible. | |  |
|  |  |  | 13. Verify that required fields are correctly decided. | |  |
|  |  |  | 14.Verify that the patient details are added | |  |
|  |  |  | 15.Verify database structure | |  |
|  |  |  | 16.Verify that the backup accessible. | |  |
|  |  |  | | |  |
| **Process-1** |  | **State symptoms to doctor.** | | |  |
|  |  |  | | |  |
| **Purpose** |  | In this case indication of 3-4 objective statements. | | |  |
|  |  |  |  | |  |
| **Target Audience** |  |  | Customers/ Stakeholders | |  |
|  |  |  | | |  |
| **Status** |  | On-going/ Completed | | |  |
|  |  |  |  | |  |
| **Role:** |  |  | **As a** database manager | |  |
|  |  |  | | |  |
| **Verification Steps** |  | 1. Verify large numbers of hospitals can be added. | | |  |
|  |  | | |  |  |
|  |  |  | 2. | Verify data can be found easily. |  |
|  |  | | |  |  |
|  |  | 3. | | Validate hospital data in profile page. |  |
|  |  | | |  |  |
|  |  |  | 4. | Verify other hospitals data are visible to user. |  |
|  |  | | |  |  |
|  |  | 5. | | Validate the location data of hospital. |  |
|  |  | | |  |  |
|  |  |  | 6. | Verify the quick availability of data. |  |
|  |  | | |  |  |
|  |  | 7. | | Validate hospitals data from reliable sources. |  |
|  |  | | |  |  |
|  |  |  | 8. | Verify the database records |  |
|  |  | | |  |  |
|  |  | 9. | | Verify that names are listed. |  |
|  |  |  |  | |  |
|  |  |  | 10. Validate the correct data were used. | |  |
|  |  |  | | |  |
| **Process-2** |  | **Avail the service from doctor.** | | |  |
|  |  |  | | |  |
| **Purpose** |  | This will enable the output of the system. | | |  |
|  |  |  |  | |  |
| **Target Audience** |  |  | Internal Stakeholders | |  |
|  |  |  | | |  |
| **Status** |  | Completed | | |  |
|  |  |  |  | |  |
| **Role:** |  |  | **As a** *developer* | |  |
|  |  |  | | |  |
| **Verification Steps** |  | 1. Verify formatted user queries accessed. | | |  |
|  |  |  |  |  |  |
|  |  |  | 2. | Verify Hospital data is used for prediction |  |
|  |  | | |  |  |
|  |  | 3. | | Validate used hospital data. |  |
|  |  |  | |  |  |
|  |  |  | 4. | Verify input error is found. |  |
|  |  | | |  |  |
|  |  | 5. | | Validate data is normalised. |  |
|  |  | | |  |  |
|  |  |  | 6. | Verify the process is initiated. |  |
|  |  | | |  |  |
|  |  | 7. | | Validate query data is included. |  |
|  |  |  |  |  |  |
|  |  |  | 8. | Verify method extracts output. |  |
|  |  | | |  |  |
|  |  | 9. | | Verify session is valid after output. |  |
|  |  |  |  | |  |
|  |  |  | 10. Verify that the objective is met. | |  |

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|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **VISHWAKARMA INSTITUTE OF TECHNOLOGY, PUNE-37** | | | | | |  |
|  |  |  |  |  |  | **Department of Computer engineering** |  |
|  |  |  |  |  |  | |  |
|  | **Objective-2** |  |  |  | **Medical Report Generation** | |  |
|  |  |  |  |  |  | |  |
|  | **Purpose** |  |  |  | To handle user requirements data. | |  |
|  |  |  |  |  |  | |  |
|  | **Target Audience** |  |  |  | Customers | |  |
|  |  |  |  |  |  | |  |
|  | **Status** |  |  |  | Completed | |  |
|  |  |  |  |  |  | |  |
|  | **Role:** |  |  |  | **As a** *end user* | |  |
|  |  |  |  |  | |  |  |
|  | **Verification Steps** |  |  |  | 1. | Verify all hospitals data is accessible. |  |
|  |  |  |  |  | |  |  |
|  |  |  |  |  | 2. | Verify inconsistencies are removed. |  |
|  |  |  |  |  | |  |  |
|  |  |  |  |  | 3. | Verify errors are found. |  |
|  |  |  |  |  | |  |  |
|  |  |  |  |  | 4. | Verify errors are suggested for correction. |  |
|  |  |  |  |  | |  |  |
|  |  |  |  |  | 5. | Validate hospitals factors in GUI. |  |
|  |  |  |  |  | |  |  |
|  |  |  |  |  | 6. | Verify data is provided to the system. |  |
|  |  |  |  |  | |  |  |
|  |  |  |  |  | 7. | Verify data is used in proper format. |  |
|  |  |  |  |  | |  |  |
|  |  |  |  |  | 8. | Validate method which is use for quick display records. |  |
|  |  |  |  |  | |  |  |
|  |  |  |  |  | 9. | Validate the database records. |  |
|  |  |  |  |  |  | |  |
|  |  |  |  |  | 10. Verify correct info is displayed for hospitals. | |  |
|  |  |  |  |  | 11.Verify that patient data has been fetched. | |  |
|  |  |  |  |  | 12.Verify that the backup accessible. | |  |
|  |  |  |  |  | 13. Verify that required fields are correctly decided. | |  |
|  |  |  |  |  | 14.Verify that the patient details are added | |  |
|  |  |  |  |  | 15.Verify database structure | |  |
|  |  |  |  |  | 16.Verify that the backup accessible. | |  |
|  |  |  |  |  |  | |  |
|  | **Process-1** |  |  |  | **Providing medicine list to patient.** | |  |
|  |  |  |  |  |  | |  |
|  | **Purpose** |  |  |  | This will pre-process user requirements. | |  |
|  |  |  |  |  |  | |  |
|  | **Target Audience** |  |  |  | Internal Stakeholders | |  |
|  |  |  |  |  |  | |  |
|  | **Status** |  |  |  | Completed | |  |
|  |  |  |  |  |  | |  |
|  | **Role:** |  |  |  | As a developer | |  |
|  |  |  |  |  |  | |  |
|  | **Verification Steps** |  |  |  | 1.Verify the raw data of users | |  |
|  |  |  |  |  |  | |  |
|  |  |  |  |  | 2.Validate processed hospital data | |  |
|  |  |  |  |  |  | |  |
|  |  |  |  |  | 3.Verify unnecessary factors are eliminated | |  |
|  |  |  |  |  | |  |  |
|  |  |  |  |  | 4. | Verify classification |  |
|  |  |  |  |  |  | |  |
|  |  |  |  |  | 5.Verify domain knowledge gained | |  |
|  |  |  |  |  |  | |  |
|  |  |  |  |  | 6.Validate the domain knowledge features representation | |  |
|  |  |  |  |  |  | |  |
|  |  |  |  |  | 7.Verify hospital features standardization | |  |
|  |  |  |  |  |  | |  |
|  |  |  |  |  | 8.Validate data display methods | |  |
|  |  |  |  |  |  | |  |
|  |  |  |  |  | 9.Verify usage of different feature selection strategies | |  |
|  |  |  |  |  |  | |  |
|  |  |  |  |  | 10.Validate final data with features | |  |
|  |  |  |  |  |  | |  |
|  | **Process-2** |  |  |  | **Adding prescribed medicines to patient’s database.** | |  |
|  |  |  |  |  |  | |  |
|  | **Purpose** |  |  |  | To add these records in the database. | |  |
|  |  |  |  |  |  | |  |
|  | **Target Audience** |  |  |  | Customers | |  |
|  |  |  |  |  |  | |  |
|  | **Status** |  |  |  | Completed | |  |
|  |  |  |  |  |  | |  |
|  | **Role:** |  |  |  | **As a** *developer* | |  |
|  |  |  | | | |  |  |
|  | **Verification Steps** |  |  |  | 1. | Verify hospitals profiles can be viewed. |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  | 2. | Verify hospital profiles can be accessed. |  |
|  |  |  | | | |  |  |
|  |  |  |  |  | 3. | Validate removal of inconsistent factors. |  |
|  |  |  |  |  | |  |  |
|  |  |  |  |  | 4. | Validate hospital data output. |  |
|  |  |  | | | |  |  |
|  |  |  |  |  | 5. | Validate data is fed to database. |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  | 6. | Verify errors are compared. |  |
|  |  |  | | | |  |  |
|  |  |  |  |  | 7. | Validate all attributes are viewable. |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  | 8. | Verify important factors are covered. |  |
|  |  |  | | | |  |  |
|  |  |  | | | 9. | Verify estimated data is displayed. |  |

10. Validate the hospital profiles are consistent.



* 1. **VERIFICATION STEPS: GOAL-5**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Objective-1** |  | **Getting patient details** | |  |  |
|  |  |  |  |  |  |
| **Purpose** |  | Generate the previous data of hospital | |  |  |
|  |  |  |  |  |  |
| **Target Audience** |  |  | Stakeholders |  |  |
|  |  |  | |  |  |
| **Status** |  | On-going | |  |  |
|  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* |  |  |
|  |  |  | |  |  |
|  |  |  |  |  |  |
|  |  |  | 2.Validate the generated data compare with other hospital data |  |  |
|  |  |  | |  |  |
|  |  | 3.Validate the number of goals achieved | |  |  |
|  |  |  |  |  |  |
|  |  |  | 4.Verify the ratings of hospitals |  |  |
|  |  |  | |  |  |
|  |  | 5.Verify the experience of other users | |  |  |
|  |  |  |  |  |  |
|  |  |  | 6.Verify the previous users feedback |  |  |
|  |  |  | |  |  |
|  |  | 7.Verify the hospitals past records | |  |  |
|  |  |  |  |  |  |
|  |  |  | 8.Validate the hospitals previous rating |  |  |
|  |  |  | |  |  |
|  |  | 9.Validate the quick response of application | |  |  |
|  |  |  |  |  |  |
|  |  |  | 10.Validate the collected data |  |  |
|  |  |  | 11.Verify that patient data has been fetched. |  |  |
|  |  |  | 12.Verify that the backup accessible. |  |  |
|  |  |  | 13. Verify that required fields are correctly decided. |  |  |
|  |  |  | 14.Verify that the patient details are added |  |  |
|  |  |  | 15.Verify database structure |  |  |
|  |  |  | 16.Verify that the backup accessible. |  |  |
|  |  |  | |  |  |
| **Process-1** |  | **Fetching relevant details about patient** | |  |  |
|  |  |  | |  |  |
| **Purpose** |  | According to customer location find nearby hospital. | |  |  |
|  |  |  |  |  |  |
| **Target Audience** |  |  | Stakeholders |  |  |
|  |  |  | |  |  |
| **Status** |  | On-going | |  |  |
|  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* |  |  |
|  |  |  | |  |  |
| **Verification Steps** |  | 1.Validate the collected data of hospitals | |  |  |
|  |  |  |  |  |  |
|  |  |  | 2.Validate the previous record of performance |  |  |
|  |  |  | |  |  |
|  |  |  |  |  |  |
|  |  |  | |  |  |
|  |  | 3Verify all the necessary details | |  |  |
|  |  |  |  |  |  |
|  |  |  | 4.Verify the extra details added |  |  |
|  |  |  | |  |  |
|  |  | 5.Verify the best details | |  |  |
|  |  |  |  |  |  |
|  |  |  | 6.Verify the use of internet |  |  |
|  |  |  | |  |  |
|  |  | 7.Validate the availability of data | |  |  |
|  |  |  |  |  |  |
|  |  |  | |  |  |
| **Process-2** |  | **Getting medical prescription obtained by doctors consultancy** | |  |  |
|  |  |  | |  |  |
| **Purpose** |  | Collection of relevant data | |  |  |
|  |  |  |  |  |  |
| **Target Audience** |  |  | Customers |  |  |
|  |  |  | |  |  |
| **Status** |  | On-going | |  |  |
|  |  |  |  |  |  |
| **Role:** |  |  | **As a** *user* |  |  |
|  |  |  | |  |  |
| **Verification Steps** |  | 1.Verify the hospitals basic details | |  |  |
|  |  |  |  |  |  |
|  |  |  | 2.Validate the stored hospital records |  |  |
|  |  |  | |  |  |
|  |  | 3.Verify the hospitals treatment info | |  |  |
|  |  |  |  |  |  |
|  |  |  | 4.Validate the consistent details |  |  |
|  |  |  | |  |  |
|  |  | 5.Verify the hospitals methods for treatment | |  |  |
|  |  |  |  |  |  |
|  |  |  | 6.Verify the past hospitals records |  |  |
|  |  |  | |  |  |
|  |  | 7.Verify the hospitals location info | |  |  |
|  |  |  |  |  |  |
|  |  |  | 8.Verify the valid data is stored |  |  |
|  |  |  | |  |  |
|  |  | 9. Verify the rating records of hospitals | |  |  |
|  |  |  |  |  |  |
|  |  |  | 10.Validate the hospitals relevant data |  |  |
|  |  | | | 2017-18-S-I |  |

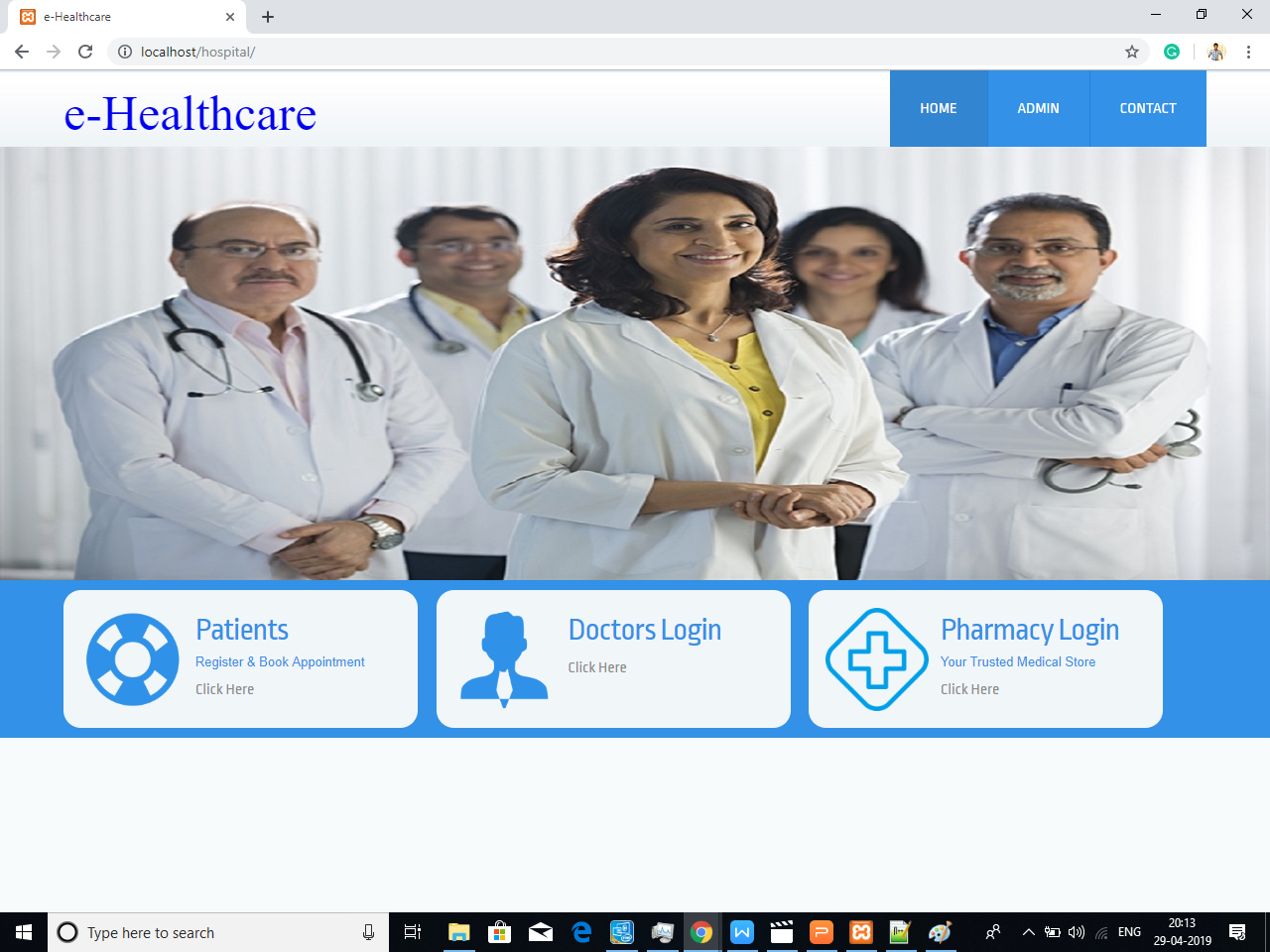
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
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|  |  |  |  | **Department of Computer engineering** |  |
|  |  |  |  | |  |
| **Objective-2** |  | **Reading database of each user** | | |  |
|  |  |  |  | |  |
| **Purpose** |  | Display the valid address from the database. | | |  |
|  |  |  |  | |  |
| **Target Audience** |  |  | Customers | |  |
|  |  |  | | |  |
| **Status** |  | On-going | | |  |
|  |  |  |  | |  |
| **Role:** |  |  | **As a** *developer* | |  |
|  |  |  | | |  |
| **Verification Steps** |  | 1.Validate the created database | | |  |
|  |  |  | |  |  |
|  |  |  | 2. | Validate the created table |  |
|  |  |  | |  |  |
|  |  | 3. | | Validate the created graph |  |
|  |  |  | |  |  |
|  |  |  | 4. | Validate the created location records |  |
|  |  |  | |  |  |
|  |  | 5. | | Validate the created growth chart |  |
|  |  |  |  | |  |
|  |  |  | 6.Verify the low ratings hospitals | |  |
|  |  |  | |  |  |
|  |  | 7. | | Validate the high ranking hospitals |  |
|  |  |  |  | |  |
|  |  |  | 8.Verify the hospitals milestones | |  |
|  |  |  | |  |  |
|  |  | 9. | | Verify whether goals are achieved or not |  |
|  |  |  |  | |  |
|  |  |  | 10.Validate the inconsistent data | |  |
|  |  |  | 11.Verify that patient data has been fetched. | |  |
|  |  |  | 12.Verify that the backup accessible. | |  |
|  |  |  | 13. Verify that required fields are correctly decided. | |  |
|  |  |  | 14.Verify that the patient details are added | |  |
|  |  |  | 15.Verify database structure | |  |
|  |  |  | 16.Verify that the backup accessible. | |  |
|  |  |  | | |  |
| **Process-1** |  | **Database availability of each consulted patient.** | | |  |
|  |  |  | | |  |
| **Purpose** |  | Collect all hospital data. | | |  |
|  |  |  |  | |  |
| **Target Audience** |  |  | Stakeholders | |  |
|  |  |  | | |  |
| **Status** |  | On-going | | |  |
|  |  |  |  | |  |
| **Role:** |  |  | **As a** *developer* | |  |
|  |  |  | | |  |
| **Verification Steps** |  | 1.Validate the stored data | | |  |
|  |  |  |  | |  |
|  |  |  | 2.Validate the appropriate location data | |  |
|  |  |  | | |  |
|  |  | 3.Validate the hospital data which is retrieved | | |  |
|  |  |  |  | |  |
|  |  |  | 4.Validate the ranking of hospitals | |  |
|  |  |  | | |  |
|  |  | 5.Verify whether appropriate ranks has been chosen | | |  |
|  |  |  |  | |  |
|  |  |  | 6.Verify the use of correct data | |  |
|  |  |  | | |  |
|  |  | 7.Validate the tabular format | | |  |
|  |  |  |  |  |  |
|  |  |  | 8.Validate the hospitals ranking due to costs | |  |
|  |  |  | | |  |
|  |  | 9.Verify the variation in treatment of hospitals | | |  |
|  |  |  |  | |  |
|  |  |  | | |  |
| **Process-2** |  | **Providing medicines according to the id of user.** | | |  |
|  |  |  | | |  |
| **Purpose** |  | Choose the hospital according to area of customer | | |  |
|  |  |  |  | |  |
| **Target Audience** |  |  | Stakeholders | |  |
|  |  |  | | |  |
| **Status** |  | On-going | | |  |
|  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* | |  |
|  | | | | |  |
| **Verification Steps** |  | 1. Validate the sorted data of hospitals | | |  |
|  |  |  | |  |  |
|  |  |  | 2. | Verify that data which is inserted is valid |  |
|  |  | | |  |  |
|  |  |  | 3. | Verify if it is shown in tabular form |  |
|  |  |  | 4. | Verify if different categories of data are being made |  |
|  |  | | |  |  |
|  |  |  | 5. | Verify whether data with inconsistency factors are hidden |  |
|  |  |  | 6. | Verify the overall collected data is valid |  |
|  |  | | |  |  |
|  |  |  | 7. | Verify that hospital profiles display properly |  |
|  |  |  | 8. | Validate the updated database |  |
|  |  | | |  |  |
|  |  |  | 9. | Verify that the quick hospital location are shown |  |

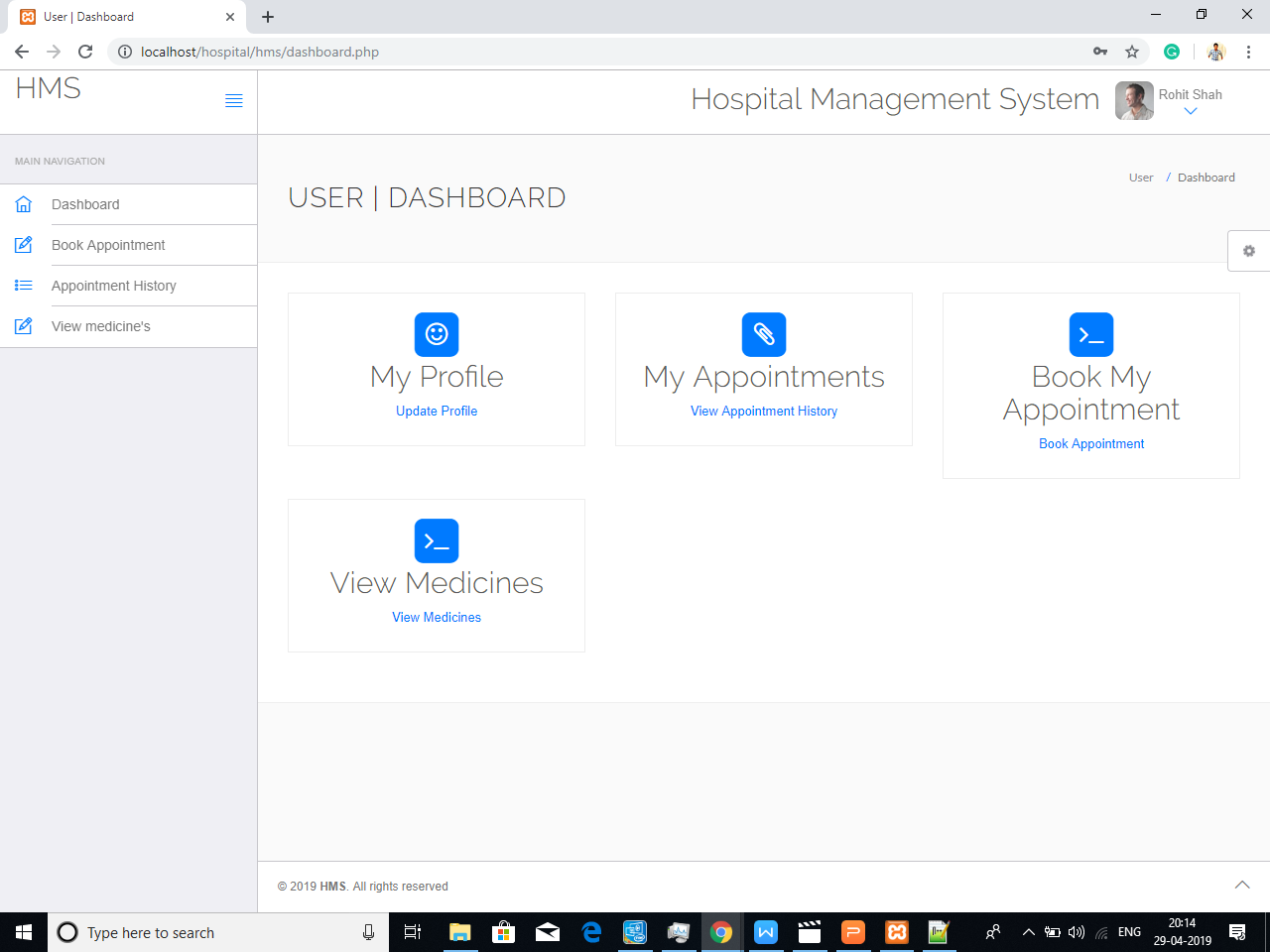


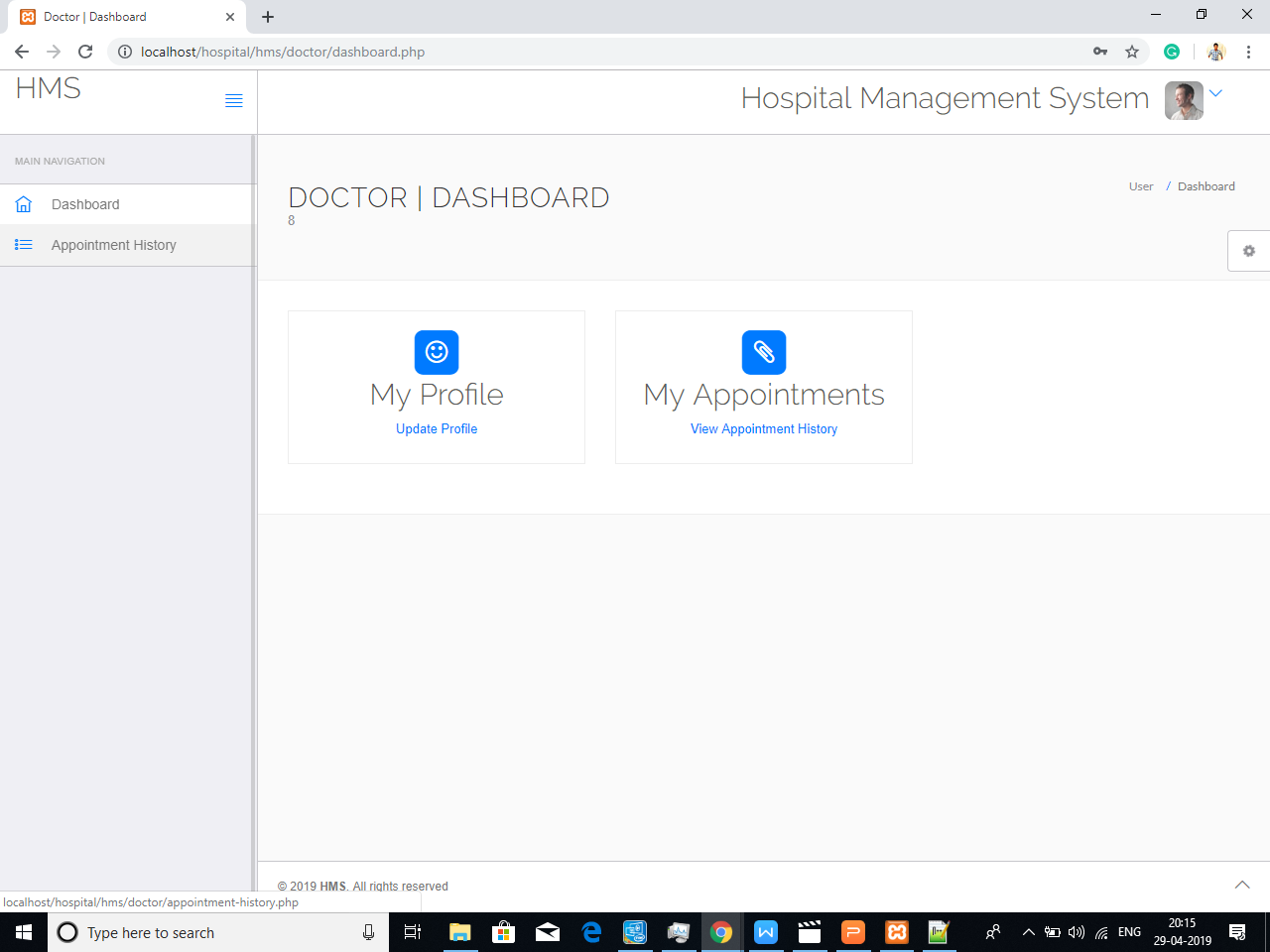
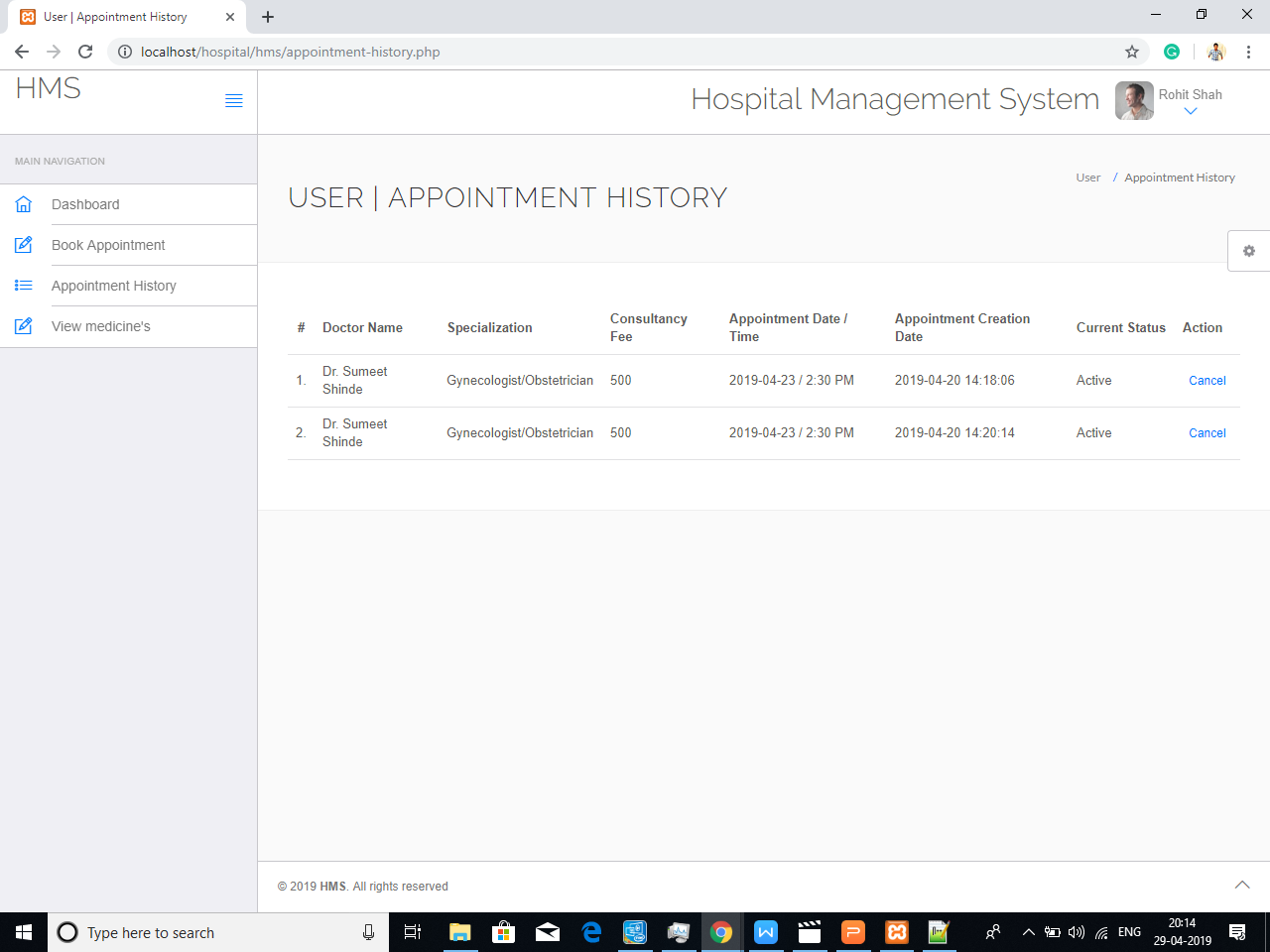
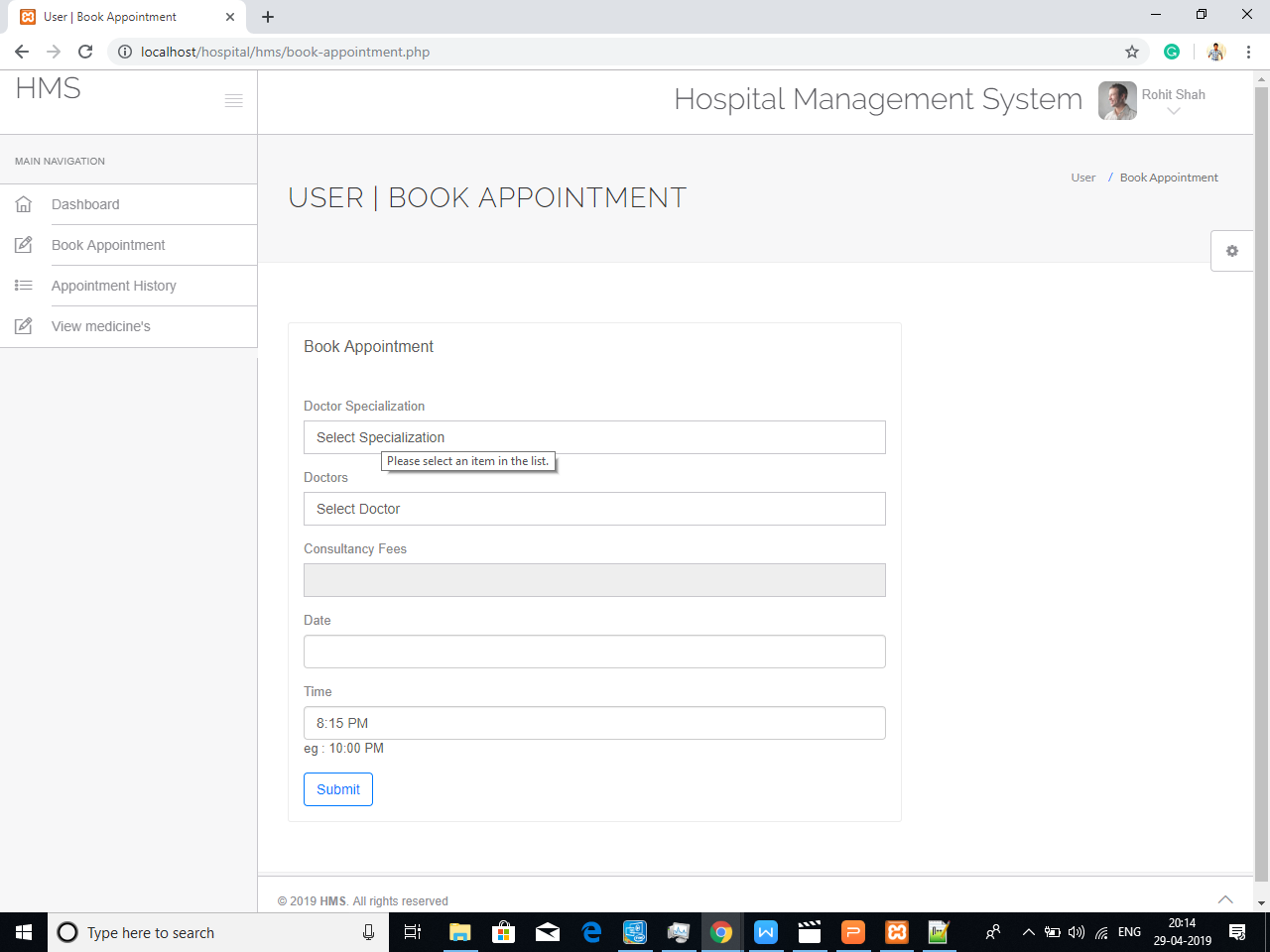
10. Verify the probability of application users

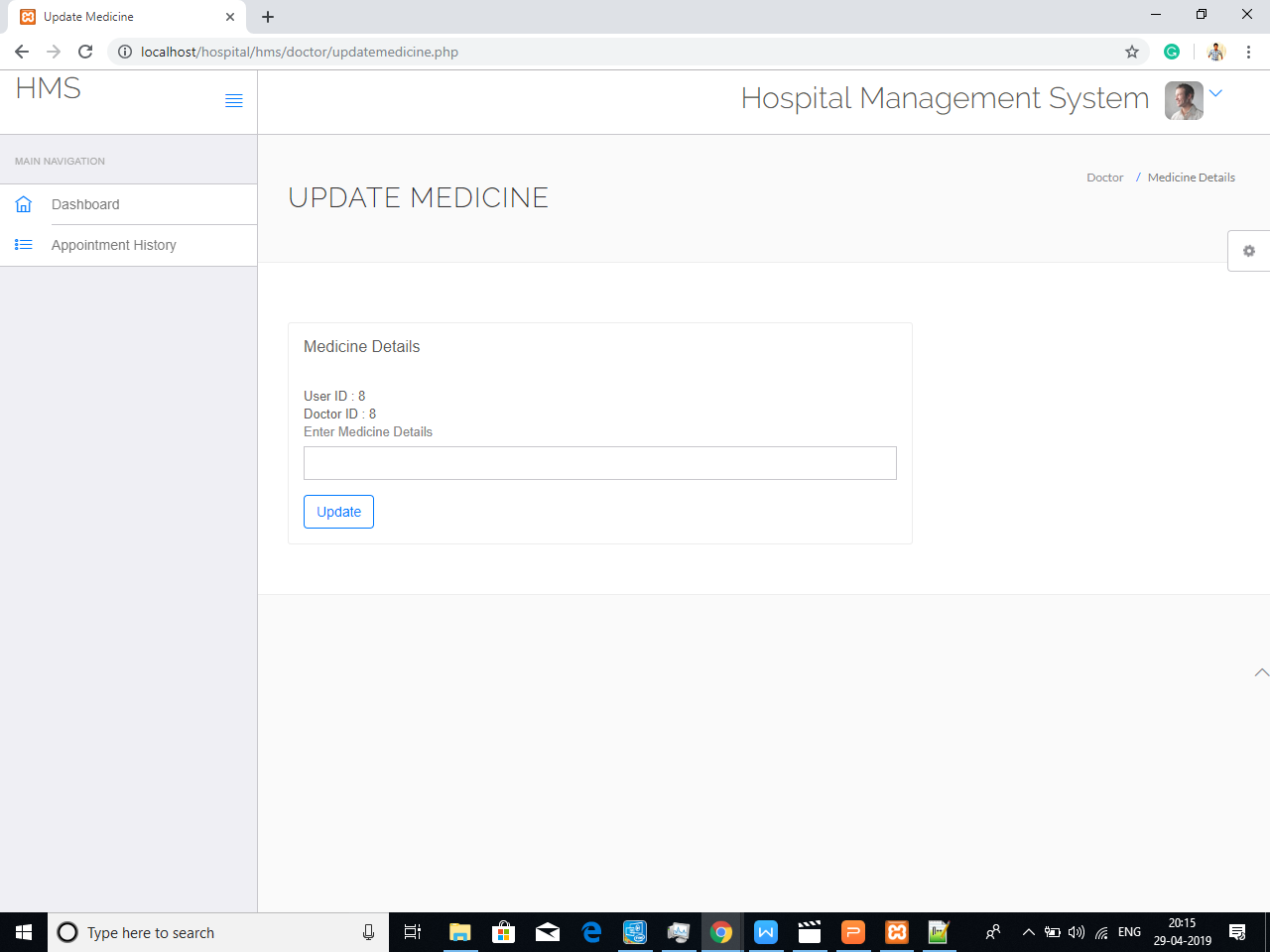
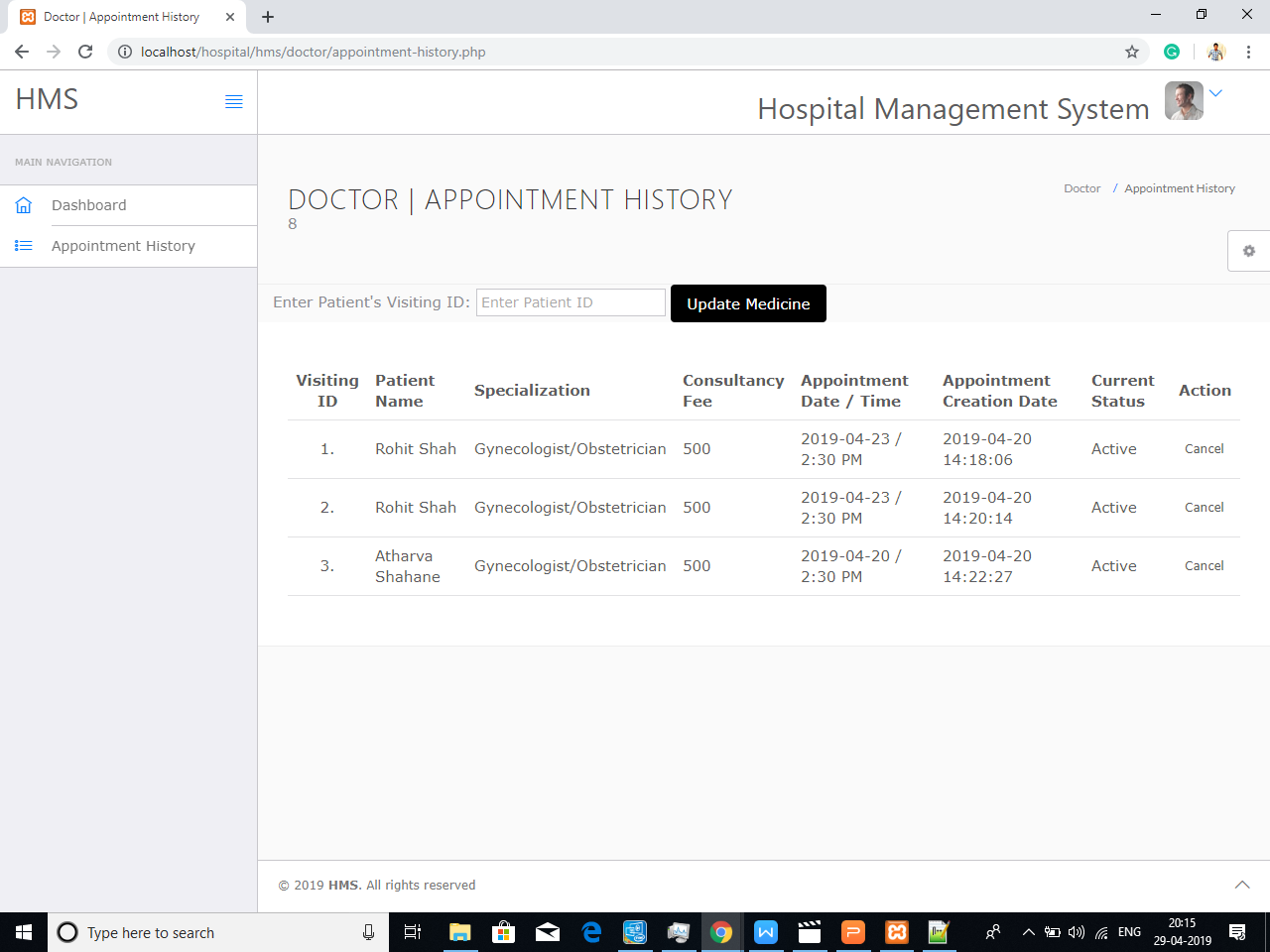
**3.6 VERIFICATION STEPS: GOAL-6**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Objective-1** |  | **Generate feedback mechanism** | |  |  |
|  |  |  |  | |  |
| **Purpose** |  | It is regarding to taking a feedback from customers about system according to that feedback able to do improvement in it | | |  |
|  |  |  | |  |  |
|  |  |  |  |  |  |
| **Target Audience** |  |  | Stakeholders |  |  |
|  |  |  | |  |  |
| **Status** |  | On-going | |  |  |
|  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* |  |  |
|  |  |  | |  |  |
| **Verification Steps** |  | 1.Verify the form which is created for feedback process | |  |  |
|  |  |  |  |  |  |
|  |  |  | 2.Verify the feedback of overall users |  |  |
|  |  |  | |  |  |
|  |  | 3. Verify whether form will work properly or not | |  |  |
|  |  |  |  |  |  |
|  |  |  | 4. Verify the stored user feedback |  |  |
|  |  |  | |  |  |
|  |  | 5.Verify the processed user feedback | |  |  |
|  |  |  |  |  |  |
|  |  |  | 6.Verify the response given to the feedback |  |  |
|  |  |  | |  |  |
|  |  | 7 Verify that necessary changes are applied | |  |  |
|  |  |  |  |  |  |
|  |  |  | 8.Verify that system has been updated according to changes that made |  |  |
|  |  |  | |  |  |
|  |  | 9.Verify the re-released software | |  |  |
|  |  |  |  |  |  |
|  |  |  | 10.Verify that the feedback mechanism is in place |  |  |
|  |  |  | 11.Verify the stored user feedback |  |  |
|  |  |  | 12. Verify that feedback has been stored |  |  |
|  |  |  | 13.Verify that necessary changes are applied in the feedback |  |  |
|  |  |  | 14..Verify that the system has been updated |  |  |
|  |  |  | 15..Verify the form which is created for feedback process |  |  |
|  |  |  | 16. Verify whether form will work properly or not |  |  |
|  |  |  | |  |  |
| **Process-1** |  | **Access User Feedback** | |  |  |
|  |  |  | | |  |
| **Purpose** |  | The feedback is mainly taken to check whether there are any bugs or mistakes are made ta the time of development or not | | |  |
|  |  |  | |  |  |
|  |  |  |  |  |  |
| **Target Audience** |  |  | Stakeholders |  |  |
|  |  |  | |  |  |
| **Status** |  | On-going | |  |  |
|  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* |  |  |
|  |  |  | |  |  |
| **Verification Steps** |  | 1.Verify that feedback process is generated or not | |  |  |
|  |  |  |  |  |  |
|  |  |  | 2.Verify that the feedback form is properly generated or not |  |  |
|  |  |  | |  |  |
|  |  | 3. Verify that feedback has been stored | |  |  |
|  |  |  |  |  |  |
|  |  |  | 4. Verify that the feedback is valid |  |  |
|  |  |  | |  |  |
|  |  | 5.Verify whether the feedback has been validated | |  |  |
|  |  |  |  |  |  |
|  |  |  | 6.Verify that the feedback has been acquired |  |  |
|  |  |  | |  |  |
|  |  | 7 Verify that necessary changes are applied in the feedback | |  |  |
|  |  |  |  |  |  |
|  |  |  | 8.Verify and assess user feedback |  |  |
|  |  |  | |  |  |
|  |  | 9.Verify the changes made in the feedback | |  |  |
|  |  |  |  |  |  |
|  |  |  | 10.Verify that the system has been updated |  |  |
|  |  |  | |  |  |
| **Process-2** |  | **Process User Feedback** | |  |  |
|  |  |  | | |  |
| **Purpose** |  | It helps to determine whether the feedback is genuine or not and whether all the mistakes are valid or not | | |  |
|  |  |  | |  |  |
|  |  |  |  |  |  |
| **Target Audience** |  |  | Stakeholders |  |  |
|  |  |  | |  |  |
| **Status** |  | On-going | |  |  |
|  |  |  |  |  |  |
| **Role:** |  |  | **As a** *developer* |  |  |
|  |  |  | |  |  |
| **Verification Steps** |  | 1. Verify that a feedback mechanism has been generated | |  |  |
|  |  |  |  |  |  |
|  |  |  | 2. Verify that a feedback form is created |  |  |
|  |  |  | |  |  |
|  |  | 3. Verify that the feedback has been acquired | |  |  |
|  |  |  |  |  |  |
|  |  |  | 4. Verify that feedback can be assessed |  |  |
|  |  |  | |  |  |
|  |  | 5. verify that the feedback has been checked | |  |  |
|  |  |  |  |  |  |
|  |  |  | 6. Verify whether the feedback is valid |  |  |
|  |  |  | |  |  |
|  |  | 7. Verify whether changes have to made | |  |  |
|  |  |  |  |  |  |
|  |  |  | 8. Verify that the changes have been finalized |  |  |
|  |  |  | |  |  |
|  |  | 9. Verify whether the changes have been approved by the team | |  |  |
|  |  |  |  |  |  |
|  |  |  | 10. Verify whether the feedback has been processed |  |  |

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# VERIFICATION MATRIX

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| User Story | Step-1 | Step-2 | Step-3 | Step-4 | Step-5 | Step-6 | Step-7 | Step-8 | Step-9 | Step-10 |
| G1:O1 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| G1:P1 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| G1:P2 | √ | √ | √ | X | x | x | √ | √ | √ | √ |
| G1:O2 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| G1:P1 | √ | √ | x | X | √ | x | √ | √ | √ | √ |
| G1:P2 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| G2:O1 | √ | √ | √ | √ | x | x | x | x | x | x |
| G2:P1 | X | √ | √ | X | x | x | x | x | √ | √ |
| G2:P2 | √ | √ | √ | √ | √ | √ | √ | √ | x | x |
| G2:O2 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| G2:P1 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| G2:P2 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| G3:O1 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| G3:P1 | √ | √ | √ | X | x | x | √ | √ | √ | √ |
| G3:P2 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| G3:O2 | √ | √ | x | X | √ | x | √ | √ | √ | √ |
| G3:P1 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| G3:P2 | √ | √ | √ | √ | x | x | x | x | x | x |
| G4:O1 | X | √ | √ | X | x | x | x | x | √ | √ |
| G4:P1 | √ | √ | √ | √ | √ | x | √ | √ | √ | √ |
| G4:P2 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| G4:O2 | √ | √ | √ | √ | √ | x | √ | √ | √ | √ |
| G4:P1 | √ | √ | √ | √ | √ | √ | √ | x | √ | √ |
| G4:P2 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| G5:O1 | X | x | x | √ | √ | √ | x | x | √ | √ |
| G5:P1 | √ | √ | x | X | x | √ | √ | √ | x | x |
| G5:P2 | √ | √ | √ | √ | x | x | x | x | x | x |
| G5:O2 | X | √ | √ | X | x | x | x | x | √ | √ |
| G5:P1 | √ | √ | √ | √ | √ | √ | √ | √ | x | x |
| G5:P2 | √ | √ | √ | √ | √ | √ | x | √ | √ | √ |
| G6:O1 | √ | √ | x | √ | √ | √ | √ | √ | √ | √ |
| G6:P1 | √ | √ | √ | √ | √ | √ | x | x | √ | √ |
| G6:P2 | √ | √ | √ | X | x | x | √ | √ | √ | √ |
| G6:O2 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| G6:P1 | √ | √ | √ | √ | √ | x | √ | √ | √ | x |
| G6:P2 | √ | √ | √ | X | √ | √ | √ | x | x | X |