

Software Requirements Specification Document for TM Web App(SRS)

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Task-2

Software Requirements Specification Document

Introduction:

This document describes the software requirements for the TM Master Web Application. TM Master is a comprehensive maritime software system that covers all aspects of fleet management, including maintenance, purchasing, crewing, and safety management. The purpose of the TM Master Web Application is to provide users with a web-based interface for accessing and using the features and functionality of the TM Master system.

❖ **Functional Requirements:**

- **Patient Evaluation:**

By filling out the patient evaluation form in the web application, doctors can evaluate the medical conditions of their patients.

- **User Management**

- a. The system should allow the creation, modification, and deletion of user accounts.
- b. The system should allow users to reset their passwords.
- c. The system should allow administrators to assign roles and permissions to users.

- **Dashboard**

- a. The system should display a dashboard that provides an overview of the fleet's status.
- b. The dashboard should allow users to view information about vessels, maintenance tasks, crewing, and safety management.

- **Vessel Management**

- a. The system should allow users to create, modify, and delete vessel profiles.
- b. The system should allow users to view information about vessels, including location, status, and maintenance history.

- **Maintenance Management**

- a. The system should allow users to create, modify, and delete maintenance tasks.
- b. The system should allow users to assign tasks to vessels and crew members.
- c. The system should allow users to view the status of maintenance tasks and receive notifications when tasks are due or overdue.

- **Purchasing Management**

- a. The system should allow users to create, modify, and delete purchase orders.
- b. The system should allow users to track the status of purchase orders and receive notifications when orders are received.

- **Crewing Management**

- a. The system should allow users to create, modify, and delete crew member profiles.
- b. The system should allow users to assign crew members to vessels and track their certifications and training.

- **Safety Management**

- a. The system should allow users to create, modify, and delete safety inspections.
- b. The system should allow users to assign inspections to vessels and crew members.
- c. The system should allow users to view the status of safety inspections and receive notifications when inspections are due or overdue.

- **Reporting**

- a. The system should allow users to generate reports on vessel information, maintenance tasks, purchasing, crewing, and safety management.
- b. The system should allow users to customize reports based on their specific needs.

- ❖ **Non-functional Requirements:**

- **Performance**

- a. The system should respond to user requests within 5 seconds.
 - b. The system should be able to handle at least 500 concurrent users.

- **Security**

- a. The system should require users to authenticate using a username and password.
 - b. The system should encrypt all sensitive data in transit and at rest.
 - c. The system should implement role-based access control.

- **Scalability**

- a. The system should be able to handle a growing number of users and data.
- b. The system should be able to scale horizontally by adding more servers.

- **Availability**

- a. The system should have a minimum uptime of 99.9%.
- b. The system should have a disaster recovery plan in place.

- **Scope:-**

The scope of the web application is to digitize manual hospital procedures. The application makes it possible for cooks, patients, and doctors to communicate and work together more effectively and efficiently.

By allowing doctors to create individualized diet plans based on their medical conditions, the application's primary objective is to improve healthcare services for patients.

- **Patient Evaluation:**

By filling out the patient evaluation form in the web application, doctors can evaluate the medical conditions of their patients.

- **Individualized Diet Plans:**

Doctors can create individualized diet plans for each patient based on their condition and post them on the web application.

- **Cook's Interface:**

The web application also provides a cook's interface, allowing cooks to view the patient's dietary requirements and plan their menus accordingly. The application also provides doctors with a list of foods that are recommended based on the patient's medical condition. The application connects patients, doctors, and cooks to make sure that patients get the right diet for their condition.

- **Assessment:**

By completing the web application, clinicians can conduct health assessments on their patients. Doctors can access the patient's medical history and other important information through the application.

- **Management of Patient Record:**

The web application also offers a patient record management feature, which enables physicians to store and manage patient data. Doctors can access patient history, diagnosis, medication, and other relevant data through the application.

- **Interface for Communication:**

The web application makes it easier for doctors, patients, and cooks to communicate with one another. The app has a messaging feature that lets doctors talk to cooks and patients to make sure everyone is on the same page.

- **Evaluation Form Details:-**

Name, Age, Height, Weight, Contact Information, Occupation, and Blood Test.

Motive for joining, Medical Background (Date and Problem), Family Background (Father's and Mother's side)

• **Fat Scan Machine:-**

Weight, Total Fat, Visceral Fat, Calories, BMI, Age, Total SC-8F, SC-Trunk, SC-Arms, Skeletal WB, and SK- Arms are being requested.

• **Visceral Fat Formation Form:-**

(Not feasible in online mode)

In This the nutritional phases should be used to define the comparison between nutrition and fat levels.

• **Personality Form:-**

Here we have 3 sections with 45 questions (Should be provided with select options based on the doctor's list for this.)

Section-1

Body size, frame, teeth, nose, eyes, lips, chine, skin color, belly, bellybutton, hips size, skin cluster, joints.

Section-2

Appetite, Digestion, Thirst, Elimination Stool, Sleep, Dream, Sweat, Body weight, Skin texture, Hair, Nails.

Reaction to excessive food.

Section-3

Mental activity, Predominant emotion, Commitment to a goal, Intellect, Memory, Leaving Ability, Speech, How you spend your money, Transparent, Speed of functioning contentment, Depression, Forgiveness, Concentration, Will Power.

Daily Input Reminder Process-

- Daily (TM)
- Weekly (fat scan, measurement, BP)
Photo reminder at every -5 kg
- Every 3 months reminder (measurement, pic, blood report, renewal package, discharge summary)

Make a list of the groceries the patient will need to buy in order to prepare the meals or detoxes that have been suggested after using the diet template.

- **Discharge Summary** (Input and This is optional) :-

Problem, Justification, Drug list, Body Fat Analysis, Measurements, Photo, and Personality Test Results.

- **Responsibilities and duties of the staff include:-**

Resume roles upon hire (diet list, client list, package list, daily chore list), attendance, time in and time out, holidays, personal leave, monthly compensation, and storage of employee-related issues. Close when they leave so that the staff can learn from that list and improve.

- **Conclusion:-**

In order to improve patient care, the internet application aims to digitize manual hospital procedures. The app makes it easier for doctors, patients, and chefs to communicate, ensuring that patients get the right nutrition for their condition.