

Nutrition Aide

Team Triumvirate

Radhika Gathia (001820710)

Rishi Raj Dutta(001825928)

Aarjav Dutt (001814758)

Content

1. Problem Statement
2. Solution
3. Object Model
4. Use Cases
5. Screenshots

1. Problem Statement

- People are unaware of the nutritional deficiencies in their bodies
- Possibility of diseases due to lack of nutrition
- Hospital's inability to provide a well balanced diet to patients
- Maintaining a healthy lifestyle is a difficult task for a newly recovered patient

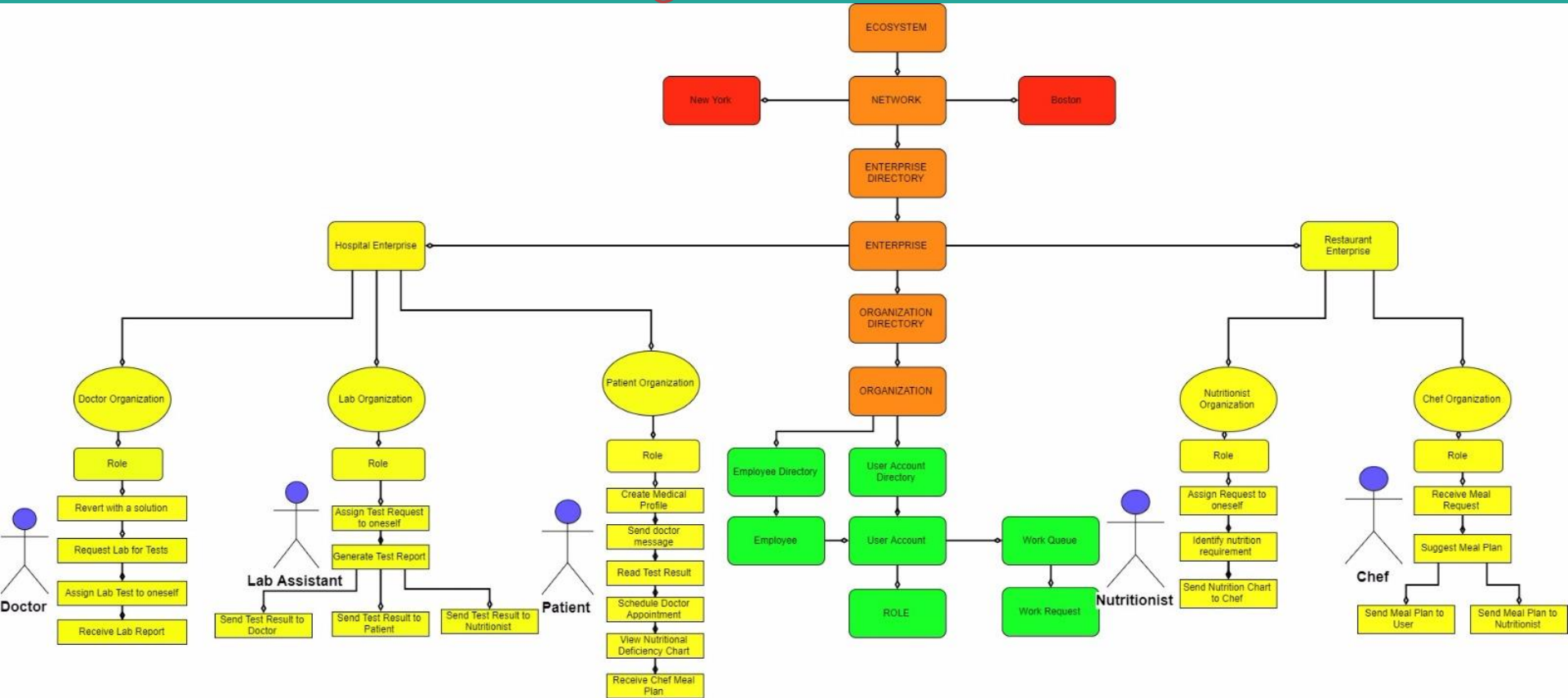


2. Solution

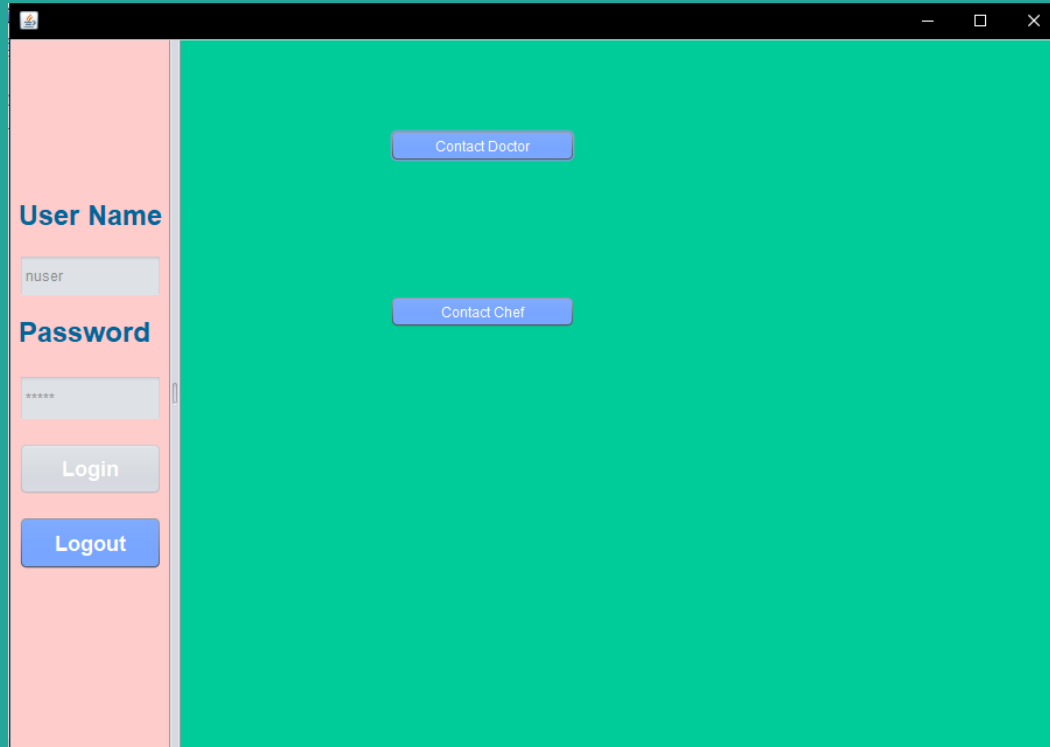
- Detect the nutritional deficiencies in regular diet
- Provide quick response to illness/symptoms
- Provide a well balanced meal plan
- Solve the incapability of hospitals to provide customized meal to patient




3. Object Model



Use cases



The screenshot shows a web application interface. On the left is a light red sidebar containing a login form. The form has two input fields: 'User Name' with the text 'nuser' and 'Password' with masked characters '*****'. Below these fields are two buttons: a grey 'Login' button and a blue 'Logout' button. The main content area has a light blue background and contains two blue buttons: 'Contact Doctor' and 'Contact Chef'.



A **Patient** once logged in, can contact a Doctor or the chef.


Use cases

Message	Status	Response	Request
need vaccination for chicken pox	Pending	chiken pox llg2.1	Business.WorkQueue.UserAskD...
cure for dog bite	Pending	Get Rabbies Vaccination	Business.WorkQueue.UserAskD...
Deficiency for iron	Pending	Eat lost of Red Apples	Business.WorkQueue.UserAskD...

Ask Doctor for Solution: -

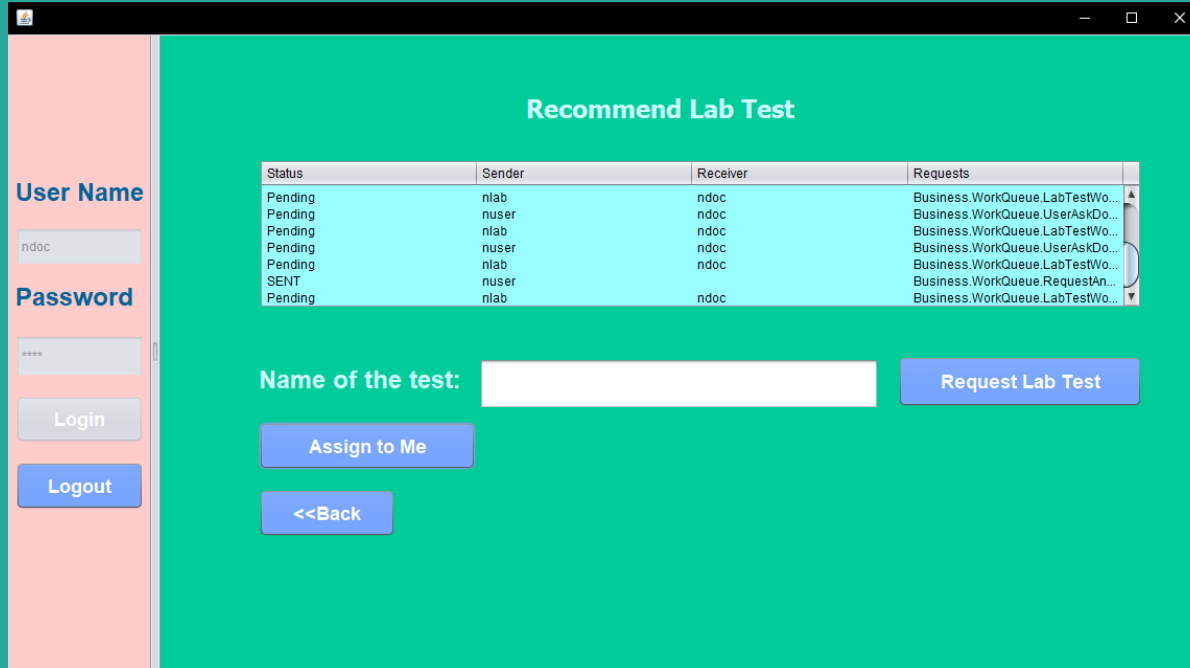
Ask the Doctor

<<Back



A **Patient** will ask the doctor a solution for his deficiencies/disease.


Use cases



The screenshot shows a web application window with a title bar. On the left is a light blue sidebar containing a 'User Name' field with the text 'ndoc', a 'Password' field with masked characters, and 'Login', 'Logout', and 'Assign to Me' buttons. The main area has a white background and is titled 'Recommend Lab Test'. It features a table with four columns: Status, Sender, Receiver, and Requests. Below the table is a form with a 'Name of the test:' label, a text input field, and a 'Request Lab Test' button. At the bottom left of the main area is a '<<Back' button.

Status	Sender	Receiver	Requests
Pending	nlab	ndoc	Business.WorkQueue.LabTestWo...
Pending	nuser	ndoc	Business.WorkQueue.UserAskDo...
Pending	nlab	ndoc	Business.WorkQueue.LabTestWo...
Pending	nuser	ndoc	Business.WorkQueue.UserAskDo...
Pending	nlab	ndoc	Business.WorkQueue.LabTestWo...
SENT	nuser		Business.WorkQueue.RequestAn...
Pending	nlab	ndoc	Business.WorkQueue.LabTestWo...

Name of the test:



A **Doctor** can provide with immediate quick response to illness and symptoms.

Use cases

Status	Sender	Receiver	Requests
Pending	a	Dr. Ryan Renolds	Business.WorkQueue.RequestAn...
Pending	a	Dr. Ryan Renolds	Business.WorkQueue.UserAskDo...
Pending	a	Dr. Sachin Tendulkar	Business.WorkQueue.UserAskDo...
Pending	a	Dr. Sachin Tendulkar	Business.WorkQueue.UserAskDo...
Pending	rrd	Dr. Sachin Tendulkar	Business.WorkQueue.UserAskDo...
Pending	la1	Dr. Sachin Tendulkar	Business.WorkQueue.DoctorWor...
	la2		Business.WorkQueue.DoctorWor...

Name of the test:

Give a Tetanus Booster Rabies Dose

Request Lab Test

Assign to Me

<<Back

If further treatment is required then the **Doctor** will recommend the Lab to perform specific Tests & examinations


Use cases

Patient_name	Test_name	Sender	Receiver	Status	Requests
a	poxination	un	Lab Assistant_1	Processing	Business.WorkQueue.Lab...
a	pox fixation	dst		FORWARDED	Business.WorkQueue.Lab...
a	Ironoid vox2	dst	Lab Assistant_2	Processing	Business.WorkQueue.Lab...
a	rrrrrrrrrr	dst	Lab Assistant_2	Processing	Business.WorkQueue.Lab...
a	pox 2 pox	dst	Lab Assistant_1	Processing	Business.WorkQueue.Lab...
a	pox 2 pox	dst	Lab Assistant_1	Processing	Business.WorkQueue.Lab...
rrd	have sex	dst	Lab Assistant_1	Processing	Business.WorkQueue.Lab...
rrd	Give a Tetanus Booster R...	dst	Lab Assistant_1	Pending	Business.WorkQueue.Lab...

Assign to Me

Generate Report

<<Back




The **Lab Assistant** will assign a task if & when available

On self assigning the Lab Test, Lab Assistant will perform the recommended Lab Tests

Use cases

Patient Name:	<input type="text" value="Xin Wen"/>
Medical Record No:	<input type="text" value="1001"/>
Date:	<input type="text" value="12/02/2017"/>
Procedure:	<input type="text" value="Tetanus Booster"/>
Attending Doctor:	<input type="text" value="Dr. Sachin Tendulkar"/>
Clinic History:	<input type="text" value="Appendix Surgery"/>
Diagnosis:	<input type="text" value="Canine Dog Bite"/>
Brief Description:	<input type="text" value="Laceration due to Canine injection"/>



Lab Assistant will generate the Lab Test Report & forward it to the Doctor, Patient and Nutritionist respectively

Use cases

User Name

Password

Login

Logout

Manage Requests

Patient_name	Date	Doctors_name	LabAssistant_n...	Receiver	Status	Request
nuser	Tue Dec 12 18:3...	ndoc	nnut	nnut	Pending	Business.Work...
nuser	Tue Dec 12 21:3...	ndoc	nnut	nnut	Pending	Business.Work...

View Details

Assign to ME

Prepare Nutrition Chart

Patient:

MRN:

Date

Attending Doctor's Name

Procedure

Clinic History

Diagnosis

<<Back

The **Nutritionist** will be able to see the requests sent by the Lab assistant.

Use cases

User Name

nmut

Password

Login

Logout

Nutrition Chart

Patient name	Plan	Carbohydrat...	Protiens	Fats	Request
nuser	1	30	34	4	Business....
nuser	2	56	5	45	Business....
nuser	3	57	5	56	Business....
nuser	4	43	78	78	Business....
nuser	5	78	89	56	Business....
nuser	6	50	8	4	Business....
nuser	7	34	3	89	Business....
nuser	8	34	45	76	Business....
nuser	9	98	7	54	Business....
nuser	10	12	87	22	Business....

Send to Chef



Nutritionist will prepare a nutrition plan for the patient.

Use cases

The screenshot shows a web application window with a black title bar containing standard window controls. The main content area has a light blue background and is titled "Chef Role" in bold black text. A yellow button labeled "View Reports and Requests" is centered in the main area. On the left, there is a light orange sidebar with a vertical scrollbar. The sidebar contains the following elements from top to bottom: a "User Name" label in bold blue text, a text input field containing "nchef", a "Password" label in bold blue text, a password input field with masked characters "*****", a grey "Login" button, and a yellow "Logout" button.

Chef Role

[View Reports and Requests](#)


User Name

nchef

Password

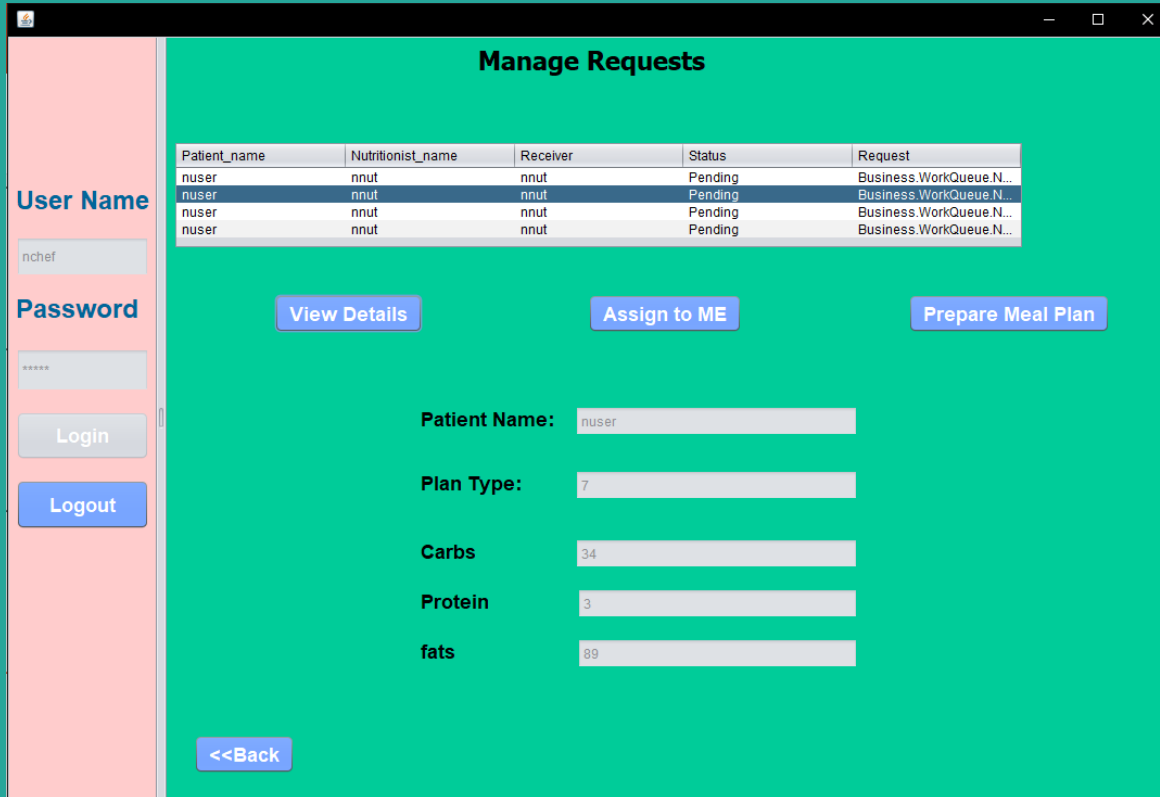
Login

Logout



Chef will be able to view reports sent by the Nutritionist.

Use cases



The screenshot shows a web application window titled "Manage Requests". On the left is a sidebar with a light blue background containing a "User Name" field with the value "nchef", a "Password" field with masked characters "*****", and "Login" and "Logout" buttons. The main content area has a light blue header with the title "Manage Requests". Below the header is a table with 5 columns: Patient_name, Nutritionist_name, Receiver, Status, and Request. The table contains 4 rows of data. Below the table are three buttons: "View Details", "Assign to ME", and "Prepare Meal Plan". The "View Details" button is active, and below it is a form with the following fields: "Patient Name:" with the value "nuser", "Plan Type:" with the value "7", "Carbs" with the value "34", "Protein" with the value "3", and "fats" with the value "89". At the bottom left of the main area is a "<<Back" button.

Patient_name	Nutritionist_name	Receiver	Status	Request
nuser	nnut	nnut	Pending	Business.WorkQueue.N...
nuser	nnut	nnut	Pending	Business.WorkQueue.N...
nuser	nnut	nnut	Pending	Business.WorkQueue.N...
nuser	nnut	nnut	Pending	Business.WorkQueue.N...

View Details **Assign to ME** **Prepare Meal Plan**

Patient Name: nuser


Plan Type: 7

Carbs 34

Protein 3

fats 89

<<Back



Chef will be able to view the reports and prepare a meal plan for the patient.

Use cases

User Name

nchef

Password

Login

Logout

Meal Plan


Nutrition Chart:

Plan	Carbohydrates	Protiens	Fats	Total
1	30	34	4	68
2	56	5	45	106
3	57	5	56	118
4	43	78	78	199
5	78	89	56	223
6	50	8	4	62
7	34	3	89	126
8	34	45	76	155
9	98	7	54	159
10	12	87	22	121

Meal Plan:

Meal Plan No.	Breakfast	Lunch	Dinner
11	Oats	Leafy Vegetables	Milk Cereal
22	Poha	Dal Roti	Milk
33	Upma	Pulses	Rice
44	Dosa	Grains	Roti
55	Idli	Leafy Vegetables	Salad
66	Paratha	Dal Roti	Fruits

Send Meal




Chef will assign a meal plan for the patient.

Use cases

The screenshot shows a web application window with a black title bar. On the left is a light red sidebar containing a login form with fields for 'User Name' (containing 'nuser') and 'Password' (containing '*****'), and buttons for 'Login' and 'Logout'. The main area has a light blue background and is titled 'Contact Chef'. It contains a table with meal plans and a '<<Back' button at the bottom left.

Breakfast	Lunch	Dinner
Poha	Dal Roti	Milk
Poha	Dal Roti	Milk
Upma	Pulses	Rice
Poha	Dal Roti	Milk

<<Back



Once meal plan is assigned, the Patient will be able to view his meals.

A group of people are silhouetted against a large window, sitting at a table and looking out at a city skyline. The most prominent building in the background is St. Paul's Cathedral, with its large dome and classical architecture. Other buildings of varying heights and styles fill the rest of the view. The scene is dimly lit, with the primary light source being the window, which creates a strong contrast between the dark interior and the lighter exterior.

Thank You