



# REST-O-FAST

Eat, Share, Celebrate!

A React-Node Based Web Application

[Project Synopsis](#)

A short Introduction, Problem Statement and  
scope along with the feasibility report!

By,

Anish Marathe S Y MSc. CA Sem III – 1573

Muskan Pohani S Y MSc. CA Sem III - 1582

Sneha Puneekar S Y MSc. CA Sem III - 1598

## Introduction:

With the introduction of Novel Coronavirus, People have started becoming more and more aware, about the hygiene, living style and what not.

Considering the worst thing which we all have seen the last year i.e., LOCKDOWN, which affected everyone in a highly adverse manner, there is one little thing which people are missing badly. Going to hotels for having lunch, dinner and chitchats! As the Govt. is taking a call for UNLOCKING THE NATION, we the students of Fergusson College MSc. CA have come up with an idea!

REST-O-FAST, as the name suggests, its a restaurant app built with the intention of:

1. Bringing people together but keeping them safe with ATMOST POSSIBLE MINIMUM CONTACT of the stuff!
2. Not to keep them wait when they are already hungry!
3. To make delicious food available at their fingertips, without any second thought!

## Scope of the proposed system:

REST-O-FAST is useful in nearly every hotel, as far as the current situation is concerned! One day everything will be back to normal, at that point of time, this system will sustain where there is SELF SERVICE kind of thing currently ongoing! (Even after the pandemic, a regular hotel which doesn't have SELF SERVICE can continue with the REST-O-FAST) There are two aspects which might play an important role in spreading the disease i.e., through contact with menu card, and the cash which is constantly getting transferred over from one hand to the other those are eliminated! This system also bypasses the major part one might say a disadvantage of the hotel on rush hours which is **WAIT**. With the use of this system, we can say the **WAIT IS OVER**.

## Feasibility Study:

Feasibility study is an assessment of practicality of the proposed system. It helps in clarifying the resources and financial investment required by the system!

- Technical Feasibility:

It lays out the details of how the good service will be delivered. Which includes transportation, business location, technology, materials and labours needed. Coming to the point of delivery of the service, the technology which we are using over here is React-Js as a client side with Node-Js as a server and MySQL as a database server! Also, this web-based application revolves around only two users, first one being the user or we can call it a customer and the kitchen interface being the second one!

Operating System: Windows 10 Professional.

Hardware Memory: Minimum 1GB

- Economic Feasibility:

The project withstands all the aspects of economic feasibility. It is basically an amount or capital to start or build the system from the scratch plus any licence amount required for the permission. As we are using ReactJs, NodeJs and MySQL (as a database server) all of them are open source and free for use. There is no need of special licence as required to build the system because we are not violating any act under any circumstances.

- Operational Feasibility:

The goal behind this proposed system is to provide a better User Interface (UI) as well as to ensure privacy, safety and security of the user.

Having said it's a web app, A user who understands English language, who can use a smart device which has the ability to connect to the internet and which has a browser support is eligible for using this system. ***As this system is fully responsive.***

## Module Description:

### Module-1: QR code recognition:

This is where the system begins. The hotel which will use this system will have a unique QR code which is printed on each of the table. Each QR code will represent a table. The system will take user to the landing page (home page) as soon as the user scans the QR code.

### Module-2 Home (Landing page):

When the user scans a particular QR code, this page is loaded in the browser! This is an overview sort of an introduction of what this system is offering. The food items which are included by the system will be displayed on to this module, it will also have a navbar for:

1. Item-wise menu navigation
2. Full Menu Navigation
3. A logout button (If user has logged in)

### Module-3 Categories:

This opens up if the user clicks on **Full Menu Navigation** which is mentioned in the last module. This will display all the categories which a restaurant has. E.g., South Indian, Pav Bhaji, North Indian etc. Selecting on particular category will take user to the items offered by that particular category which is our next module.

### Module-4 Item Selection (Based on categories):

This module displays all the items along with their price and description for a specific category which is selected through the previous module i.e., Categories. This module allows user to view and add the item to the cart. If the user is not logged in until this point, he or she may glance through the menu, but for further ordering process he/she must log in.

## Module-5: Login

This module allows user to get logged in to the system so that the ordering process can be further proceeded. Username and password fields will be there on this page with which a user can log in. If the credentials are not found in the database of the system, a user will be redirected to the Registration Module which is the next thing.

## Module-6 Registration:

If the user is not registered, this module comes into picture. It will allow user to get registered by providing, Name, username, password and Email-Id. The registration module also provides a facility of **Email Address verification with OTP** meaning a user will get an OTP on mentioned Email-Id and will be asked to enter the same for the verification purpose! Once the user is registered, he/she will be again redirected to the login page to start selecting the favourite items and placing the order.

## Module-7 View Cart and Proceed:

Once the user adds items into the cart, he/she can view the cart as a part of selected items. A user can also modify the quantity of each selected item if he feels so. Once review process is complete a user proceeds further to checkout page for completion of placement of the order!

## Module-8 Checkout module:

This module will accept the card details of a particular user and also will validate them, if the details are correct. A user is shown the overview of the order which include, Item name, cost and qty of the selected items. The total amount to be paid and the partially encrypted card details. On clicking Place order a user will be given a window of 10 seconds where he can cancel the order if he wishes to. Else after 10 seconds the order is placed automatically!

## Module 9- The Kitchen Interface:

Once the user places an order. The order along with Order Number and Table on which the order is to be served is displayed on the kitchen interface. The kitchen people can then view the order items. And can accept the order!

## Module-10 Logout:

The logout module plays a vital role in placement process of the order. There are various validations which are linked to the logout functionality once he/she places the order if he doesn't want something else he will automatically be logged out of the system!