

# UNIVERSITY INSTITUTE OF COMPUTING



## Project Synopsis:

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## **DECLARATION**

We hereby declare that the work which is being presented in the Mini Project “CANTEEN Management System”, in partial fulfillment of the requirements for Mini Project viva voce, is an authentic record of our own work carried under the supervision of “Mr. Akash Choudhary”.

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Course: B.Tech. (CSE)

Year: 3rd

Semester: 6th

## **ACKNOWLEDGEMENT**

It gives us a great sense of pleasure to present the synopsis of B-Tech Mini Project (CANTEEN MANANGEMENT SYSTEM) undertaken during B-Tech 3rd Year. This project in itself is going to be an acknowledgement to the inspiration, drive and technical assistance that has motivated individuals like us.

We owe special debt of gratitude to Mr. Akash Choudhary, Assistant Professor Department of CEA, for providing us with an encouraging platform to develop this project, which thus helped us in shaping our abilities towards a constructive goal and for his constant support and guidance to our work. His sincerity, thoroughness and perseverance is been a constant source of inspiration for us. We believe that he will shower us with all his extensively experienced ideas and insightful comments at different stages of the project & also guide us about the latest industry-oriented technologies.

We would also like to acknowledge the contribution of all faculty members of the department for their kind guidance and co-operation.

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## INTRODUCTION

As the title suggests Canteen Management System which means how can we manage a canteen in a more effective way as canteens are very crowded in colleges and offices during lunch hours and break time, horde of people gather at one place and we need to consider the Covid-19 era in which these type of situations can be harmful so for this we created a canteen management system where students can place the orders by a web application, the payments can be done online, they just need to go to the canteen to collect the order, the balance can be updated online using any payment method.

### **Development Software Requirements: -**

#### *Supported Operating system: -*

Windows 10

Windows 8

Windows 7

#### *Software Required: -*

- Visual Studio Code
- Node JS

## **Development Hardware Requirements: -**

### **For Android Studio and IntelliJ: -**

**Intel i3 6<sup>th</sup> Gen (1.8 GHz minimum).**

**4 GB of RAM.**

**2GB GPU**

5000x Hard Disk

Internet Connection

### **Frontend and Backend: -**

#### **Frontend: -**

Front End of the project lies on Handlebars, CSS And JavaScript.

- **Handlebars:** - Handlebars is a simple templating language. It uses a template and an input object to generate HTML or other text formats. Handlebars templates look like regular text with embedded Handlebars expressions. With Handlebars, you can separate the generation of HTML from the rest of your JavaScript and write cleaner code.
- **CSS:** - CSS is cascading style sheet which is used to give designer look to HTML using the external file.
- **Java script:** - Java script is used for client side scripting which can help in using validation on the website and many more other functions.

#### **Backend: -**

Back End of the project lies on NodeJS.

**NodeJS:-** It is an open-source, cross platform, backend JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser. Node.js lets developers use JavaScript to write command line tools and for server-side scripting running scripts server-side to produce dynamic web page content before the page is sent to the user's web browser.

#### **Idea: -**

Idea behind this web application is to create a platform for the canteen management system where students and other people can order anything from the menu without standing in a queue and waiting for hours in the rush time. The individual can order anything that is in the menu and can also pay online and just have to go to the canteen to collect its order. It will also prevent the horde of people in the canteen which is very needy in the time of this covid-19.

## **Objective: -**

1. The main objective of the project is to make the process of the canteen easier and effective.
2. It will save time of the people who waits in the long queues for the food.
3. The people gathering that takes place in large numbers in the canteen will also get reduced.

## **Module Description: -**

- **Sign-up:** - The sign-up page is the place where you can create an account by filling the personal details and setting the credentials of the account.
- **Sign-in:** - The sign-in or the log-in page is the place where you can log-in into your account to see the menu to order something.
- **Admin:** - The admin portal controls all the working of the online canteen system all the orders or meals are approved by the admin through this portal.
- **Home Page:** - The home page consists of two options sign-in and sign-up where the user can create an account or login into the existing account.
- **Customer wallet:** - In this page the customer can add money from any bank and the meal price will get cut from the wallet only while placing an order.
- **Placing order:** - With the help of this page the customer can select any dish from the menu and can place an order for it.
- **Pre-book order of the customer:** - With the help of this page a customer can pre-book a order and can receive that order later.
- **Subscription of a customer:** - There are two types of customer premium and non-premium customers.
- **Admin menu updation:** -Admin is responsible for updating the menu if any new dish comes in the course.
- **Delivery/Approval:** - The admin is responsible for approving the order of the customer and get it delivered to the customer.
- **Admin Dashboard:** - In this page the admin can see the list and names of all the customers who have account on the online platform and can see their order history.

### **Main Activity: -**

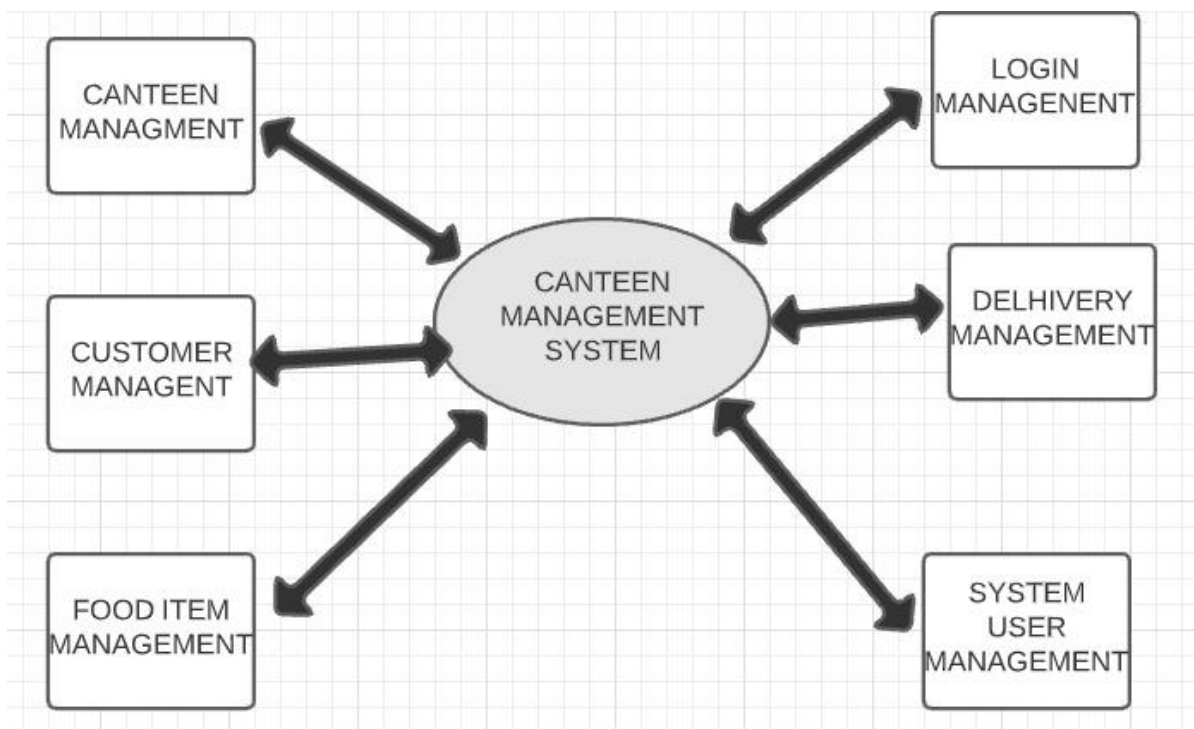
The main activity of the canteen management system is that we have created a platform where an individual can order anything from the menu and can make the payment online using any payment option.

### **Scope: -**

This project is highly scalable. We can target the canteens of colleges, schools and offices. This holds a potential of providing ease of service to a large magnitude of people. Also, in the current times when the deadly corona virus is at its peak, such a service is a huge convenience to people as it holds the potential to eliminate the chances of people crowding in tiny locations.

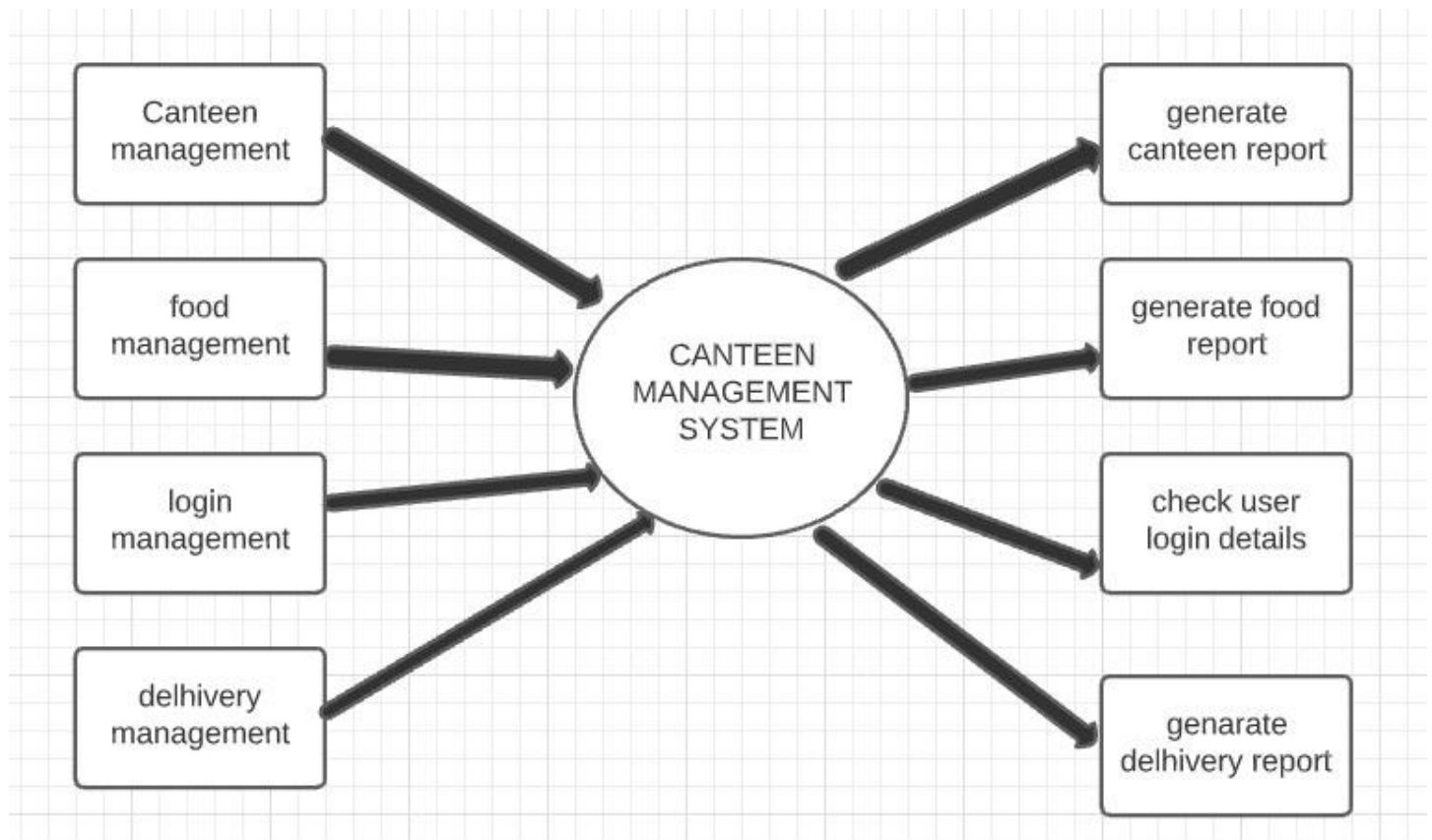
## **DFD: -**

### **0 Level DFD: -**





**1st Level DFD: -**



## 2nd Level DFD :-

