I.B. Tech - II Semester Idea Creation-2

“Title of the APP Development”

Department of CSE-Branch (Ex:AIML,IOT….)

By

SK. USMAN - 2311CS010398
K. ALEKYA - 2311CS010368
K. VAMSHI - 2311CS010371
M. SUDHEER - 2311CS010431
M. AISHWARYA - 2311CS010434

Under the Esteemed Guidance of

Dr/Mr/Mrs/Ms. Name of the guide

Professor/Associate. Professor/Assistant. Professor - CSE

Malla Reddy University

Maisammaguda, Kompally, Hyderabad- 500100, Telangana State.
(Telangana State Private Universities Act No. 13 of 2020 & G. O. Ms. No. 14, Higher Education (UE) Department)

Department of Computer Science and Engineering – Branch (Ex: AIML, IOT….)

CERTIFICATE

This is to certify that the Idea Creation report entitled "**GRAB GROCERS**" by **Usman (2311CS010398), Vamshi Krishna (2311CS010371), Alekya (2311CS010368), Sudheer (2311CS010431), Aishwarya (2311CS010434)** CSE- Branch (Ex:AIML,IOT….) Malla Reddy University, Hyderabad was submitted in partial fulfillment of the requirements for the completion of the course during the academic year 2023-2024, is a bonafide work carried out under our guidance and supervision.

Internal Guide	Idea Creation Coordinator	HOD
(Dr/Mr/Mrs/Ms. Name of the guide)	(Mr. T. A. Joseph Judson) –(DS, CS, IoT, CSE-Omega) (Dr. V. Gopi Tilak)-(CSE, AIML-zeta and epsilon, IT)	(Name of the Concerned HOD)

External Examiner

Acknowledgment

We have been truly blessed to have a wonderful internal guide, **Dr/Mr/Mrs/Ms. Name of the guide (Designation)**, Department of CSE-Branch (Ex:AIML,IOT….), Malla Reddy University for guiding us to explore the ramification of our work and we express our sincere gratitude towards him for leading me through the completion of Project.

We would like express our gratitude to **(Mr. T. A. Joseph Judson) –(DS, CS, IoT, CSE-Omega) (Dr. V. Gopi Tilak)- (CSE, AIML-zeta and epsilon, IT), Asst. Professor**, Department ofCSE, Idea creation Coordinator, for providing seamless support and right suggestions are given in the development of the application.

We would like to say our special thanks to **Dr/Mr/Mrs, Name, Incharge HOD (Designation)**, Department of CSE-(Ex:AIML/IOT….), I. B.Tech, Malla Reddy University for providingseamless support and right suggestions are given in the development of the application. **(Not needed for CSE-Alpha to Sigma).**

We would like to convey our heartfelt gratitude to **Mrs. Lakshmi. T. K, Incharge HOD & Assistant Professor**, Department of CSE, I. B. Tech, Malla Reddy University for providing seamless support and right suggestions in the development of the application.

We would like to express out heartfelt thanks to **Dr. V. Dhanunjana Chari**, **Dean I B. TechSOE & SOS,** Malla Reddy University for providing us with the conductive environment for carrying out academic schedules and project with ease.

We are grateful to **Vice Chancellor, Chancellor and The Management** Malla Reddy University for providing excellent infrastructure and their visionary thoughts to prepare ourselves industry ready by focusing on new technologies.

Finally, we would like to thank our family members and friends for their moral support and encouragement to achieve goals.

Usman - 2311CS010398
Vamshi - 2311CS010371
Alekya - 2311CS010368
Sudheer - 2311CS010431
Aishwarya - 2311CS010434

ABSTRACT

The GRAB GROCERS documents a purchaser to submit online commands for items and facilities from a store that distributes both walk-in clients and online customers. The online Store system grants an online display of all the matters they want to wholesale from store. This web grounded application assists customers to select their products. Customers provide their all detail regarding address and contact and they get their chosen products in their home. Shopping days may be check at any time, and their substances can be modified or detached at the option of the customer. Once the customer adopts to submit a buying order, the purchaser may print the insides of the shopping carrier in order to gain a hard copy record of the deal. This Web application saves lots of time of customers and give the more advantages to customer.

E-commerce has seen a tremendous growth in the past decade. An important feature of an online grocery system is to arise up with suitable recommendations, which can help the user make quick decisions, so that they don't have to spend additional time, browsing the website. Generating visual needs and reports acts as another plus point, for these websites. In order to implement this, almost all major online shopping sites use Recommendation systems. The main persistence of this broadside is to give an review of a smart cart application which is a predictive model application and which aims to provide germane item recommendations grounded on purchase olden times and user interests based on a dataset.

INDEX

LIST OF FIGURES

Chapter - 1 INTRODUCTION

Online grocery shopping is a way of buying food and other household necessities using a web-based shopping service. There are two basic methods that people can use to purchase these items online. One is to order them from a local grocery store that participates in online s hopping. A customer can then arrange for a home delivery directly from the store, or he canpick up his order at the store once an employee has assembled it. Another common practice is to order groceries from a large company, such as Amazon or Net grocer, that will ship the items to one's home.

Online markets have been a thing that has come to stay with the society of today since most financial transactions can be attained online. Internet access has vastly grown across the world today and has given rise to interconnectivity even to the remotest areas in the world. T his generally means it is possible to be at any location and reach any other location in the world without stepping a foot out of your premises.

This takes multi-tasking to another level since you can be in a meeting and visit a market located several kilometers away at the same time. This has made businesses to grow without spending as much as they would have if they had to build another branch of their business in another location.

Groceries are different from many other products, such as music and books, that are commonly purchased online. Many grocery products are perishable and therefore time-sensitive in terms of their delivery needs.

1.1 Summary of Application

The motive of this GRAB GROCERS Web Application is to allow the user to playwith the search tool and create different combinatorial search criterion to perform exhaustive search.

Making the application gets rid of these unnecessary delays letting the user to perform exhaustive search. The users of this application can easily feel the difference between the Ajax empowered user interfaces vs. traditional user interfaces.

Provide Interactive interface through which a user can interact with different areas of application easily.

A search engine that provides an easy and convenient way to search for products specific to their needs. The search engine would list a set of products based on the search term and the user can further filter the list based on various parameters.

Provide Drag and Drop feature thereby allowing the user to add products to or remove products from the shopping cart by dragging the products in to or out of theshopping cart.

This work supports people in exploiting their time to be safer and more accessible than wasting it physically. Moreover, people can order the product from home instead of going around for long distances for shopping.
In addition, this app could help people who are facing health problems and unableto buy something physically to avoid future problems. Finally, some people do not have transportation methods for shopping, and they should keep pace with the evolution.

1.2 Background of App

Sellers in local markets currently have a traditional system of shopping where customers are expected to walk to the displayed items to make purchases at that particular time. This leaves these sellers at the mercy of undecided customers whoare normally moved by the competitive pricing of other shops.

Customers who are loyal to the particular sellers are the ones who tend to stay for years with unwavering attachment to such sellers. Most sellers in the marketplacesdo not have a database of customers who visit. Customers basically walk-ins just buy what they need and they are gone. There is a simple work flow of acquiring various products from the wholesalers, working out prices, displaying produce on the shelves, receiving money, bagging bought items and finally watch the customerwalk away without out any interaction.

This leaves no room for feedback from the customer on the shopping experience. Whether it was good or bad it will never be known until an unhappy customer willingly comes out to complain. With popular trends and demands the concept ofthe Internet as the way forward to increase profit margins, companies new and oldare creating websites here and

there. The significance for retailers to having a website is that a website is informational and transactional in nature.

As the website can be used for advertising and direct marketing; sales; customer support and public relations. With seasonal events and holidays, the Internet has become a tool for a quick and stress free method of shopping. Allowing retailers tocash in the profit from another useful shopping channel. Jupiter Research expects 2003's online holiday sales to be led by new shoppers, resulting in a 21 percent increase over 2002 figures (Greenspan, 2003). The growth in holiday sales is drivenby factors such as, online bargains; time saving; avoiding holiday crowds

Online grocery shopping is a way of buying food and other household necessities using a web-based shopping service.

An online grocer is either a grocery store that allows online ordering, or a standalone e-commerce service that includes grocery items.

There is usually a delivery charge for this service. Supermarkets that have built internet channels to better service their clients are known as online grocers.

Online grocery delivery services are available throughout Europe, Asia and North America, mostly in urban centers. The online ordering is done through e-commercewebsites or mobile apps.

Primary goal of an online shopping site is to sell goods and services online. This project deals with developing an e- commerce website for online shopping.

It provides the user with a catalogue of different goods and services available for purchase in the store.

This web based application helps customers to choose their daily needs and add products to their shopping cart.

To know the consumer's awareness and perception about the product and services.To know how it provides products and services and satisfies their customers.

To know how it reduces the uncertainity in purchase decision processes.

Chapter -2: Literature Survey and Existing Systems

Literature survey details

3.1 Existing System

****Existing system details****

Chapter -3: Software and Hardware Requirements

3.1 Software Requirements

Front End : HTML and CSS will be used to develop the user interface ofthe application.

Back End : Python is used as backend for storing and retrieving data.

Scripting Language : Javascript is used as scripting language.

Frame Work : Django is used as framework.

3.1.1 JAVA

Python is an interpreted, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existingcomponents together. Python's simple, easy to learn syntax emphasizes readabilityand therefore reduces the cost of program maintenance. Python supports modules and packages, which encourages program modularity and code reuse. The Python interpreter and the extensive standard library are available in source or binary formwithout charge for all major platforms, and can be freely distributed.

3.1.2 MYSQL

MySQL is the world’s most popular open source database. According to DB- Engines, MySQL ranks as the second-most-popular database, behind Oracle Database. MySQL powers many of the most accessed applications, including Facebook, Twitter, Netflix, Uber, Airbnb, Shopify, and Booking.com.

3.1.3 DJANGO

What is Django?

Django is a Python framework that makes it easier to create websites using Python.

Django takes care of the difficult stuff so that you can concentration building yourweb applications.

3.2 Hardware Requirements

Processor : An Intel Core i5 processor or higher will provide sufficientprocessing power for running the application smoothly.

RAM : 8GB of RAM is recommended to ensure optimal performance whilerunning the application.

Hard Disk : A Minimum of 150GB of free storage space is required to installthe necessary software and store the files.

Chapter – 4 Data Flow Diagrams

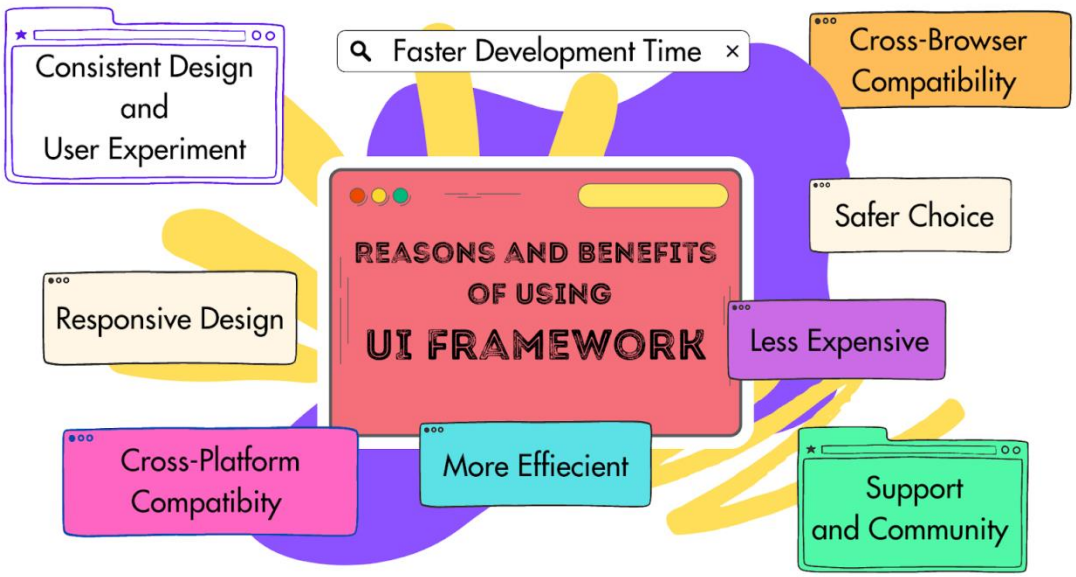

Fig. 1 Database diagram of GRAB GROCERS

4.1 System Architecture

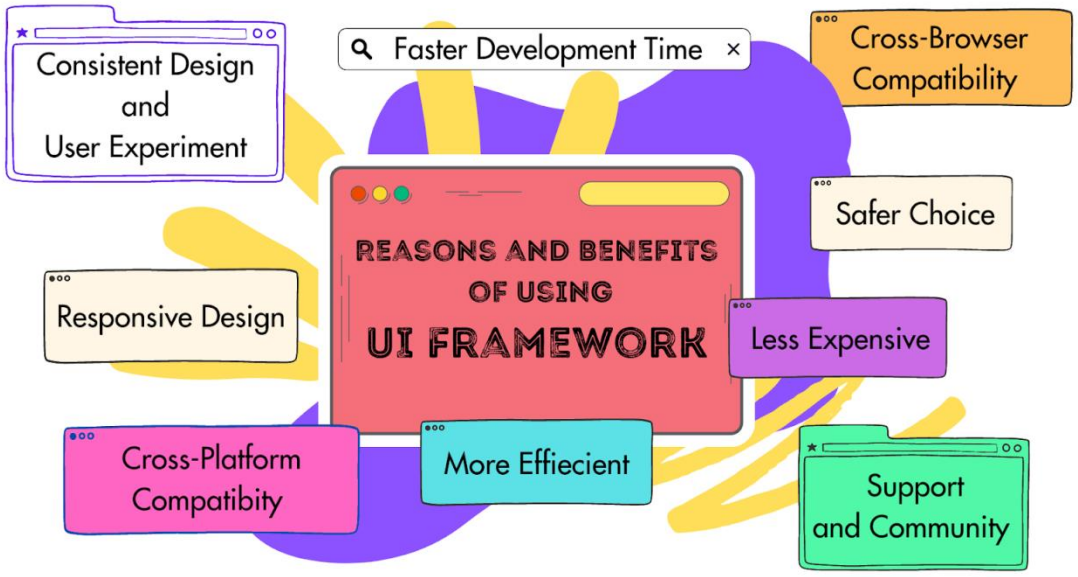

Fig. 2 System Architecture of GRAB GROCERS

****Explanation about the system architecture*****

4.2 Algorithm

Here's an algorithm for the Grab Grocers Application:

1. Start the Grab Grocers application.
2. Display the login or registration page.
3. If the user is new, prompt them to register with their desired username andpassword.
4. If the user is already registered, prompt them to enter their login credentials.
5. Verify the user's credentials against the database or storage.
6. If the credentials are valid, redirect the user to their respective dashboard basedon their user type (admin or user).
7. If the credentials are invalid, display an error message and allow the user toretry or register again.
8. Admin Dashboard: Here Admin can Update prices, Add Items, Remove Items and can makeany changes that are needed.
9. User Dashboard: Here the User can see the products and add their requirements to the cartand order them online.

4.3 Screenshots of Application

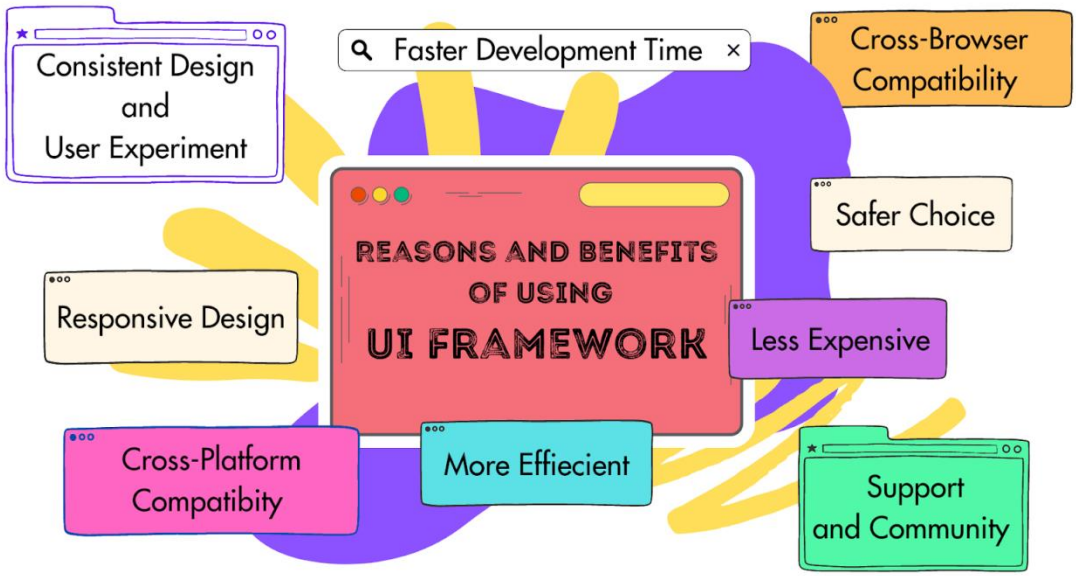

Fig. 3 Login Page

1. The page appears first when an user or admin opens the application.

2.The User or Admin has to enter their user id and password to get logged in.

3.If you enter wrong , then it will show an error message as “invalid login credentials.

4..If you are a new user then you have to register by clicking signup.

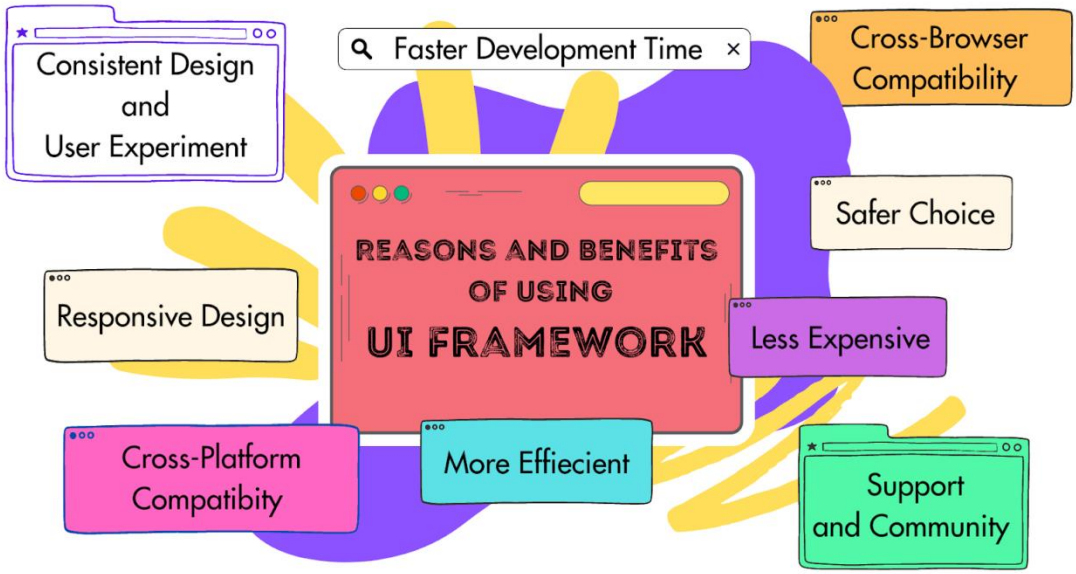

Fig. 4 Sign Up Page

1. If a new user enters the webpage ,then he had to register.
2. For that he has to click Sign Up and enter his details and has to register.
3. They have to create an user id and password to login the next time when theywant to use the application

1.lise the products and order them online.

Chapter - 5 Application Code

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Grocery Website Design</title>

<!--font awesome cdn link -->
<linkrel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/5.15.3/css/all.min.css">

<!-- custom css file link-->
<link rel="stylesheet" href="C:\Users\usman\OneDrive\Desktop\style.css">

</head>
<body>

<!--header section starts-->

<header>

<div class="header-1">

<a href="#" class="logo"><iclass="fas fa-shopping-
basket"></i>GRABGROCERS</a>

<form action="" class="search-box-container">
<input type="search" id="search-box" placeholder="search here...">
```

<label for="search-box" class="fas fa-search"></label>
</form>

<nav class="navbar">
home

Code Explanation

Brief explanation of what's happening in the code:

<head>: This section contains meta-information about the webpage, such as thetitle and external CSS stylesheets.

<body>: This is the main content of the webpage, visible to the user of the web.
** :** This div contains an image element displayingthe Grab Grocers logo.

<form>: This is an HTML form element that sends data to the server when theuser submits it. It specifies an action URL where the form data will be sent andthe HTTP method used (POST in this case).

<link rel="stylesheet" type="text/css" href="...">: This is a link to an externalCSS stylesheet file that defines additional styles for the webpage.

<style>...</style>: This is an inline CSS block that defines styles for specific elements. In this case, it sets the alignment and margins for the logo container andgreeting container.

Style.CSS :

```
@import
url('https://fonts.googleapis.com/css2?family=Nunito:wght@200;300;400;600;70
0&display=swap');

:root{
--green:#27ae60;
--black:#2c2c54;
}

*{
font-family: 'Nunito', sans-serif;margin:0; padding:0;
box-sizing: border-box; outline: none; border: none;text-decoration: none;
text-transform: capitalize;transition: all .2s linear;
}

*::selection{ background:var(--green);color:#fff;
}

html{
font-size: 62.5%; overflow-x: hidden;
scroll-padding-top: 6.5rem;scroll-behavior: smooth;
}

section{
padding:2rem 9%
}

.button{
display: inline-block; margin-top: 1rem; background: var(--green);color:#fff;
padding: 1rem 2rem;font-size: 1.7rem; text-align: center;
```

5.1 Handling Errors and Test Cases

****About handling errors and test cases of the application***

Chapter – 6 Conclusion

The project entitled GRAB GROCERS (Online Grocery Management System) is very convenient for the Computer Companies. This system is very convenient for customer or users to buy online computer products. It can be observe that the information can be obtained easily and accurately. The online grocery shopping Software is made more user friendly to the users, so that anyone can run the software. Then this software provide permission to enter tothe system via the login password credientials to the user who use this system. we can see, online shopping may or may not be greener than traditional shopping.There are simply way too many factors that we have to consider in such a model. As we focus on the costs of online shopping, it seems that online shopping is really detrimental for the environment. Online shopping brings us great convenience, butit also encourages irresponsible consumption habits like exploiting the advantages of free returns and expedited shipping. These add on to the existing pool of environmental problems that we are dealing with – global warming, wastes and pollution. Therefore, we should change our attitude towards e-commerce – to be more responsible, less exploitative and more thoughtful for the environment.

Chapter - 7 Future Scope

Many retailers are adjusting theirofferings and operations to meet consumer demand, and online grocery could account for up to 18 to 30 percent of the food-at-home market in some leading European countries. Full-basket offerings: Online grocery stores are expanding their offerings to include a wider range of products, similar to supermarkets. Instant delivery: Instant delivery services are becoming more popular for convenience-store visits or top-ups.

Chapter - 8 REFERENCES

1. Allington, A. (2018, October 05). 'Overboxing' Becomes Enemy No. 1 in Amazon-Led Web-Shopping Boom. Retrieved March 22, 2019, from https://www.bna.com/amazon-retailers-redo-n73014483019/

2. Baker, P. (2018, February). E-commerce packaging waste becoming a bigger issue. Retrieved March 22, 2019, from https://searcherp.techtarget.com/feature/E-commerce-packaging-waste- becoming-a-bigger-issue

3. Bernstein, R. (2018, June 06). Top Consumer Behavior Theories. RetrievedMarch 22, 2019, from https://online.husson.edu/consumer-behavior- theories/

4. Bird, J. (2018, July 29). What A Waste: Online Retail's Big PackagingProblem. Retrieved March 22, 2019, from https://www.forbes.com/sites/jonbird1/2018/07/29/what-a-waste-online- retails-big-packaging-problem/#30658546371d

5. Deutschland, A. (2017, March 30). Is online shopping bad for theenvironment? Retrieved March 22, 2019, from https://www.alumniportal-deutschland.org/en/global-goals/sdg-12-consumption/online-shopping-or- local-shopping-whats-better-for-the-environment/

6. Faghri, A. (2016, March 11). What's the environmental impact of youronline shopping habits? Retrieved March 22, 2019, from https://www.1millionwomen.com.au/blog/whats-environmental-impact- your-online-shopping-habits/