EVERYDAY MART

PROJECT SYNOPSIS

OF

MINI PROJECT

BACHELOR OF TECHNOLOGY

Computer Science and Engineering

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DECLARATION

We hereby declare that the work which is being presented in the Mini project -II, "**Everyday Mart",** in partial fulfilment of the requirements for Mini Project-II viva voce, is an authentic record of my own work carried under the supervision of **Mr. Neeraj Khanna**, Technical Trainer, GLAU.

ACKNOWLEDGEMENT

With immense pleasure we are presenting the project synopsis as a part of the Mini Project. We would like to thank God, the mentor, **Mr. Neeraj Khanna**, and all the people who indirectly provided us with the great opportunity to work on a project. Their trust and support inspire us in the most important moments of making right decisions and we are glad to work on this project as this will help us in exploring our skills and talents.

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Introduction

People turn towards technology for making their life more innovative and find solutions to their daily problems. When it comes to shopping, customers find it very difficult to find their products around the supermarket/shops. Usually, customers in retail stores stand in a queue to do the billing of the products they want to buy which makes the customers to wait for a long time till they reach to the billing person. As in this modern and fastidious world, each minute is valuable for us so, here we have come up with an android application as well as web application which can be used in smart shopping carts that solve these dilemmas and provide a better shopping experience. And saves our estimable time by making the billing process faster. Our app and website consist of two parts which mainly focuses on navigation to the item's location and automatic billing (in case of online payment) of the products that the user has purchased.

Technology

Hardware Requirements:

- Computer System with minimum 8GB of RAM

Software Requirements:

- Windows/Linux OS

- Android Studio

- Visual Code Studio

- Robo 3T

- Postman

- Adobe XD

Programming language, Framework and Libraries:

- Java Programming

- JavaScript

- HTML

- CSS

- React

- Express

Frontend and Backend

Frontend:

- **App:** Android Studio is the official integrated development environment (IDE) for Google's Android operating system, built on JetBrains IntelliJ IDEA software and designed specifically for Android development. It is available for download on Windows, macOS and Linux based operating systems. It is a replacement for the Eclipse Android Development Tools (ADT) as primary IDE for native Android application development.
- **Website:** We will be using React, HTML, Bootstrap for frontend development part.

Backend:

- **Website:** We will use APIS for creating different routes. We will differentiate user as customer and admin with the help of middleware. Admin will be able to use functionalities like adding products/items, viewing overall order details, etc. The data will be sent to backend using APIs.

    An application program interface (API) is a set of routines, protocols and tools for building software applications. Basically, an API specifies how software components should interact.

    The data will be sent in JSON format.

    JSON is a lightweight data-interchange format it is easy for humans to read and write. It is easy for machines to parse and generate.
    We are using MongoDB Atlas for cloud storage during development phase because of its flexibility and scalability of document database, available as a fully managed service.

    MongoDB Atlas is the global cloud database service for modern applications. Deploy fully managed MongoDB across AWS, Azure, or GCP. Best-in-class automation and proven practices guarantee availability, scalability, and compliance with the most demanding data security and privacy standards.

Idea

Existing System: Currently, we have to spend hours roaming around, looking for the daily essentials. The market of an offline store is usually limited as the timings of the store in Indian market are not generally 24/7. Another huge disadvantage to shopping out of course are the crowds as well as long lines. At times, it becomes very cumbersome to shop offline, like during recent lockdown due to corona pandemic.

Proposed System: Our system will provide general access and service just in a click, all day long. It will increase professionalism and improve customer service through greater flexibility. Also, it will be of less paper waste and will provide a greater opportunity for effective business management. It will offer great convenience to customers by allowing them to place orders at their leisure.

Objective

Everyday Mart is an android as well as web application where users can purchase and order essentials online. The system is developed with a user-friendly and attractive GUI. It delivers a wide range of essentials available online. Users have to first login into the system to view the essentials and add them into their cart. They can then order it by making a secure online payment. The system functionality of products and orders is stored on server side in a web service. The android app is for client usage. It consists of client-side scripting for placing orders by connecting to the server-side web service.

- Reduce management costs
- Developing business relations
- Providing a unique customer experience
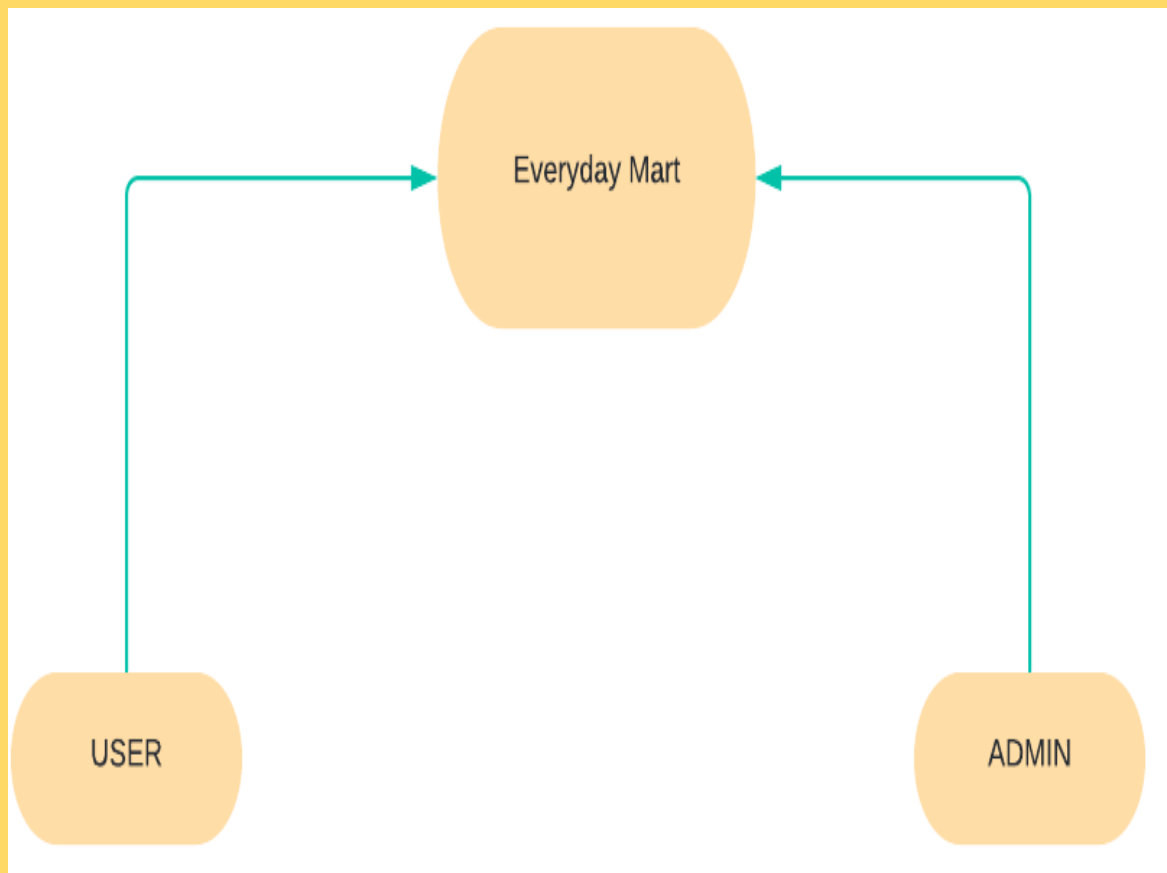- Developing relevant target
- Increasing sales

Module Discerption

Main Activity- There is a User panel where user can login into the mart app and then they can select their item which they want to buy and pay the bill and purchase the items and they can also use "Add to Cart" option. There is one admin app from where admin can add and delete the item which are casting on the dashboard and also, they have an option to confirm the order of the user.

Scope of E-Commerce- Electronic commerce (e-commerce) is the marketing, buying and selling of merchandise or services over the Internet. It encompasses the entire scope of online product and service sales from start to finish.
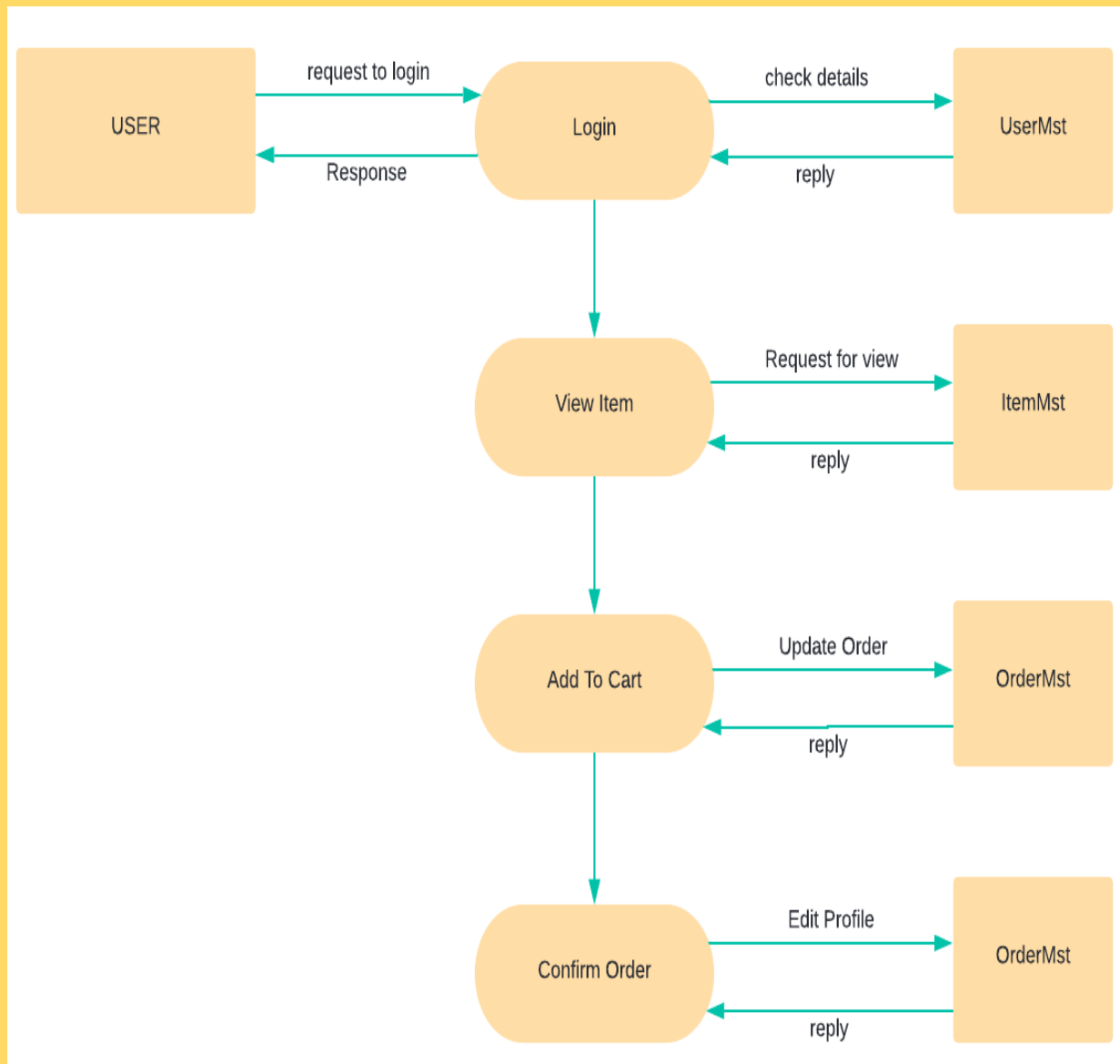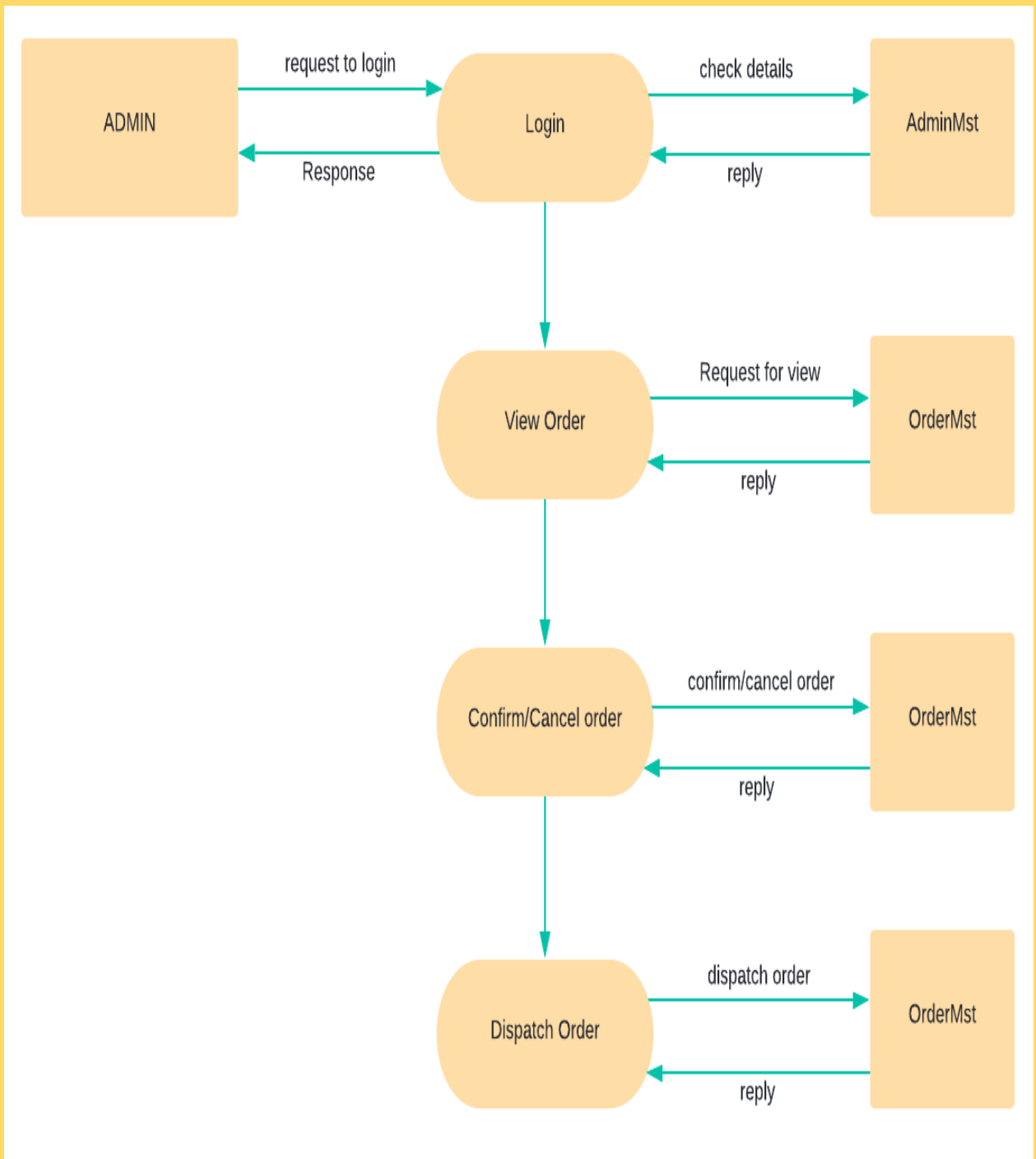
Data Flow Diagram

Level - 0

Level - 1

(User)

(Admin)

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Functionality

Our system will provide the customer and the admin with immense services, in particular:

- Easy Login and signup facility to the customer and the admin.
- Customer get the option of categories base product listing.
- Customer get their order history details.
- Admin can upload all the daily necessary stuff available from where customer view and buy according to their need.
- Customer search the required product by applying filter related to colour, size, Quantity, Price, etc.
- During Shopping, customer can buy multiple products by adding product to "Add to Cart" option.

Future Scope

The development of this system surely prompts many areas of further lengthening. This system has wide scope to implement features like:

- Customer will get the offers and coupons on which taxes applied.
- Customer have to pay additional fee for COD payment based on the order and the provided address.
- Customer keep track of the order by live order tracking.
- Customer enable to pay via Credit card, Debit card, Net banking, Cash on Delivery (COD) on which terms and conditions are applied.

Team Role

1. Abhinav Bhardwaj - Website (Frontend + Backend)
2. Aditya Singh Chauhan - Android App
3. Anvit Gupta - Android App and Website
4. Ankit Parmar - (Frontend)
5. Somiya Parmar - Android App

GitHub Repository

https://github.com/Mini-Project-GLAU-2020-21/Everyday-Mart

Conclusion

In general, today's businesses must always strive to create the next best thing that consumers will want because consumers continue to desire their products, services etc. to continuously be better, faster, and cheaper. In this world of new technology, businesses need to accommodate to the new types of consumer needs and trends because it will prove to be vital to their business' success and survival. E-commerce is continuously progressing and is becoming more and more important to businesses as technology continues to advance and is something that should be taken advantage of and implemented.