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MALL NAVIGATION WITH ONLINE STOCKS UPDATE

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Abstract

The mall navigation with online stocks update application is a web based android system helps customers to find the way in a shopping mall and helps to find where the things are located around the shopping mall.

This mobile application provides consumers their current locations, directions, floor plans and shops information. Consumers will also get detailed direction statement from their location to where they choose to go with this mobile application's search functionality.

Keywords-Navigation, Route finder, GUI.

1.INTRODUCTION

The large sized shopping malls may be considered as an obstacle for the shopping experience for a lot of people, they difficult to find the positions of the shops in the mall and there are so many facilities in the mall but the peoples difficult to find the stores and restaurants.

The shopping mall is an aggregation of individualistic retail stores, self-supporting services, and a parking area conceived, constructed, and maintained by a management firm as a unit. Shopping centres in the malls may also contains different types of restaurants, ATM, banks, theatres, professional offices, service stations, parking areas and other establishments.

The main objectives of this online shopping mall navigation system to summarize the difficulties in locating different shopping areas and setting a route finder which helps to find the route of the centre.

This application helps the customer by displaying effective an user friendly dynamic maps instead of the static maps displayed on the screen. It finds the customer to track all the locations in the efficient and timely manner. Mall Navigation system contributes different functionalities to the user.

The application supports customers to increase the mobility to reduce efforts and increase efficiency in terms of time use and displaying a user friendly application.

2. Objectives:

Malls may be difficult to navigate & often Visitors may have limited time for shopping.

The main objective of this application to help the users to find the way in the mall and to find all the locations in the mall with the help of this web based system.

3.System Requirements & Technologies Used:

Frontend – Java, XML



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DEVELOPMENT

RAM 4GB & ABOVE PROCESSOR i3 OR EQUVALENT & ABOVE GRAPHICS INTEL HD 4000 & ABOVE

MOBILE REQUIREMENTS

- RAM 4GB & ABOVE
- ANDROID VERSION 5.0 LOLLIPOP & ABOVE
- SNAPDRAGON 450+ OR EQUIVALENT & ABOVE

FRONTEND

- \Rightarrow JAVA
- \Rightarrow Java is faster programming language with object oriented concepts.
- \Rightarrow Kotlin is a modern programming language used to design the front end of the web based mall navigation.
- \Rightarrow XML
- \Rightarrow XML (Extensible Markup Language) which is used to design the front end of the mall navigation system

FIREBASE

Google Firebase is a Google-backed application development software that helps developers to design Web apps.

4)MODULE DESCRIPTION

- The modules involved are:
- Administrator
- Users

Customer Login

1.Item list 2.Shop Finder 3.Parking

Owner Login

1.Add/ Remove item 2.Update Stock



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ADMIN MODULE

The administrator is the super admin of this application. Only admin have access into the mall navigation admin page. Admin may be considered as the owner of the shop. The administrator controls all the modules and in the administrator modules contains the information about all the users and about all products. The mall navigation module is divided into different sub-modules. Adding or removing users and Updating stocks.

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USER MODULE

- A new user will have to register in the system by providing essential details in order to view the products in the system.
- Login
- A user must login after registration.

Shop Finder

- User can view the route to shops based on their search after successful login. A detailed description of a particular shop with shop name, shop details, shop image, stocks & price can be viewed by users.
- Search & View item
- Users can search for a particular product and view the product with its price and quantity.

Parking

By scanning QR Code



Fig 4 Use case diagram



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Fig 5: Flowchart for user interface design



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5) RESULTS AND DISCUSSIONS

APPLICATION USER APPLICATION

> Search QR Reader Diamond Take Survey Mall Nav Feature About Mall Never get lost Turn on bluetooth and find your location on map Go to the mall map to see SEARCH FOR MALL NAV all the store Contact US i GO TO THE MAP **f** ÷ • • • ٠ ٠ ٠

> > Fig 6 : user applications

- We can see the Realtime location and the blueprint map of our mall.
- Use the beacon feature to connect to their devices and map our live location inside the mall. We can search the required product.
- Also, there is the QR scanned parking system to remember the parked location A survey to collect the feedback from the customers and contact option provided.



Fig 7 : Category selection



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Separate category provided for each and they contain product inside and further tap will move to the detailed view of the product.

The detailed page contains the gallery, contacts, description of the product, it will also show us the price and quantity of the product.

ADMIN APPLICATION

Admin login

By giving the login credentials(username and password) the user can sign in. There by selecting each category he will be able to add the products with the corresponding details. There is also a new register option and forgot password option.

1:17 💿 會 🔺	we are all	10:24	O 👷 🟦 📖 93%
		Product Name	
\mathbb{N}		Shop Name	
		Phone	
Login		email	
		Website	
PASSWORD		Description	
		Quantity	
		Price	
Login In		Map id	
SIGNUP NOW	FORGOT PASSWORD?		

Fig 8 : admin login



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6.Conclusion

The Mall Navigation App will help the customer in various ways in the fast-moving environment. This is the best method through which the customers can consume and use their time in an efficient manner. This application aims to provide a user friendly. Graphical User Interface (GUI) that can be accessed on Smartphone's. The Application will provide the user real time information on where the shop is located and the product information from the shops. There is a lot of scope of adding new capabilities and features to this system. The mall map will provide a great shopping experience to a customer. As the saying goes, "Time is gold". This Mobile Application will assist consumers once they step into the mall. Instead of having to waste their time and energy navigating through the mall, with this sophisticated but userfriendly mobile application, it will help enhance their experience in the shopping mall. Moreover, this mobile application provides consumers their current locations, directions, floor plans and shops information. Consumers will also get detailed direction statement from their location to where they choose to go with this mobile application's search functionality.

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