KMRL PD Portal - Web app

Requirement Document

07.05.2022
Overview

The Kochi Metro is a rapid transit system serving the city of Kochi in Kerala, India. The Kochi metro project is the first metro in the country which connects rail, road and water transport facilities. KMRL has a lot of business opportunities for Kochi residents and visitors to make Kochi a more livable and convenient city. To grow with Kochi metro, KMRL now has planned to develop its own website and mobile application to announce business opportunities inside and outside the metro stations directly to the public. The website/application has mainly two modules;

1. User Module
2. Admin Module

The detailed view of the two modules are shown below;

Scope of Work

1. User Module

- Landing Page

Grow Up With Kochi Metro

Check Business Opportunities

Kochi Metro Rail Limited
The above image shows the landing page of the Property Development website. When a user clicks the property development tab in the website or mobile application, it will be redirected to this page. In the landing page the user can select the business opportunities from the provided button itself. When the user clicks the ‘check business opportunities’ button it will go to the next page which shows the filters regarding the spaces in metro stations.

- **Type of Business Page**

![Image showing the landing page of the Property Development website](image_url)

In this page users can select their spaces through the filters provided in this page according to their needs. The user can rent a commercial space, office space, Kiosk space inside the metro station and property development lands outside the metro stations etc. If a customer wants to choose the space by using stations names, can use the first filter button ‘Search by station’. Another button is to search the space based on the type. I.e ‘search by type of space’. Third filter button denotes that the customer can select the spaces based on the square feet. Another perspective is the user does not want a space inside the station, they prefer to rent out a space outside the station which is in the property development area, the fourth filter button redirected to the details of the spaces outside the station.
When the customer clicks the search by station button, this page will appear. In this form all the 22 stations listed out as buttons. The user can easily select their spaces in stations by choosing their station button.
For example, the user wishes to rent out a space in Kaloor station, and selects the kaloor station from the search by station page. It will redirect to the next page which shows the floor name and the square feet area. The metro station has three or four floors. If the customer wants their shop to be on the concourse area or the ground floor or in the platform, they may select from this page. Also this page shows another option, that is the buyer can easily choose the range of minimum and maximum sqfts of the spaces. When clicking on the ‘see spaces’ button it will redirect to another page.

- **Floor Plan Page**

![Floor Plan Page Image](image)

This page shows the detailed view of the floor which is selected by the customer. From here users can select or plan their business strategy and decide which side should their shop start on. And also they can see where the other shops are and how many square feet it is.
Here shows the detailed description of the spaces which is selected by the customer, which includes the total square feet of the selected space and suggestion regarding the selected space is suitable for kiosk etc. if everything is ok for the user they can click on the button ‘Book his space’ and it will redirect to the next page.

Post your details page
All the above-given details are ok with the user, they can book the space and enter their name, contact number and email address and click the submit button. Then an official from KMRL will contact the user and discuss the details of the spaces which are selected by the customer.
FLOWCHART of User Module

Start

Check Business Opportunities

Search By Station

Search By Type

Search by Square feet

Rent land outside station

Different station Names

Spaces available in selected station

See Spaces

Details of spaces

Book This Space

Enter user details

Submit

Stop
2. **Admin Module**

- **Landing Page**

This is the landing page of the admin module. Admin can log in to the website/application with the respective user id and password. In the admin dashboard admin can view and sort the information regarding the business opportunities.
In the admin dashboard the first one is the all inquiries tab. Here admin can view all the enquiries, that means the user submitted details in the user module can be listed out in the ‘all inquiries’ page. And all the inquiries listed out along with the submitted date and time. Admin can sort out the details by date (the enquiry submitted date), by station name (i.e. listed out all the enquiries in a particular station), by space type (if it is a commercial space, office space, Kiosk space inside the metro station and property development lands outside the metro stations etc.), by area (ground floor, concourse area, platform etc.) and status (site visit scheduled or not inquiry closed etc.).
Inquiry Details Page

The inquiry details page shows the details of each inquiry. Which shows the inquiry number, name of the person, contact number, space which the user selected, and a small message from the user etc. and also it shows a status that the site visit is scheduled or not. If it is scheduled, the scheduled time and date for the site visit would display in the ‘notes by KMRL portion’. If the authority communicates with the user, the corresponding date and time will also be displayed here. Admin can add and save new notes regarding the inquiries by clicking the Add notes and save notes button respectively.
• Sort by Station Page

In the all inquires page admin will select “sort by station” from the drop down menu this page will appear. All the 22 metro stations are listed out here, from this admin can select a particular station's inquiries separately.
Same as said earlier here admin can sort out the enquiries based on the particular date.
Here the admin can sort the details based on the space type. Different space types are listed out in the drop down menu. From this admin can choose inquiries of the particular space type.
This page shows if the admin selects the menu ‘sort by status’, then all the status entered is listed out here. From the menu list admin can easily select the inquiries related to the different statuses. For example if admin clicked ‘visit scheduled’ status, then all the visit scheduled inquiries will be displayed along with the scheduled date.
The admin can filter the spaces by its square feet range by using the last option ‘Sort by range’. The minimum and maximum sqft. can enter and click on the search button. All the inquiries within that sqft range should be displayed.
This page shows the details of the inquiries individually. For instance, if a customer selected a kiosk at the JLN Station Platform area. An official from the KMRL called the user through the phone and narrated the details about the selected kiosk. But the user cannot afford the cost and is not willing to rent out the kiosk area. So the details of the inquiry page shows the information regarding the area which the user selected, also it displays the current status (customer not accepted the space due to the high price range) and the reason.
Deliverables of the Internship Program

1. Creative Brief
Overall project definition document. It includes all the requirements and specifications of the project, including scope, audience, objective, call to action, and technical specification for the website we will be creating.

2. Content Outline
The content outline defines every piece of content that will appear on the website. If it isn't on the content outline, it isn't going to appear on the website. The content outline is part of the information architecture, and as such should be organized in a hierarchy that represents the structure of the website rather than a hierarchy based on arbitrary categorization of content.

3. Site Map
The site map represents the structure and navigation of the website and should closely coincide with the content outline. There should be a common numbering system in place. Pages are represented by boxes and links by arrows.

4. Wireframes
Wireframes are schematic versions of the pages on a website and should simulate the final navigation, although the page layout at this point in the process is rough. Wireframes can be made into clickable web pages, allowing the client to preview the navigation of the site in action. Each wireframe should include all pieces of content that the final web page will display.

5. Mockups
Mockups/Comps The graphic design mockup is a composite image of how the final web page will look. Color, layout, typography, and images are all worked out at this stage for each significantly different page type on the website. I should make clear that even though the composite (mockup or comp for short) looks like a web page, it is still only a single image. It is not a web page, and includes no code at this point in the process.

Kochi Metro Rail Limited
Note: It is now standard practice to provide mockups for desktop, tablet, and smartphone versions of the website.

6. Development
Development of the entire website which includes
   a. UI Development of the public facing site
   b. Database creation and mapping
   c. UI Development of the admin panel

7. Testing
Testing of the entire application which includes
   a. Unit testing
   b. UAT testing

8. Deploying to AWS cloud
Technology Stack

1. Programming Language: **PHP 7+**
2. Database: **MySQL**
3. Libraries: **jQuery/Angular JS**