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Framework Development for Amenities Suggestive Markers using Angular JS

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ABSTRACT: Accommodation is first thing and primary factor think about while considering studying abroad, and the ultimate verdict can be based on several factors. There are multiple options for international students to consider for accommodation. And for many, this may be the first time living on their own, or the first time being in foreign land. For many, it may also be the first-time planning living expenses. So, it is important at the start to think accommodation as a major factor in the decision. The type of accommodation you choose will be important since it will be the place where you rest, study, and feel at home while you're abroad. The general thing to remember is that, you have to look after finding your own accommodation as you know your preferences better than others; As a solution to this problem, we can develop a framework that helps people find better amenities as per their preference and it will suggest you the property according to your choice hence for implementing it author has used google maps.

KEYWORDS: Angular, Accommodation, Google maps

I. INTRODUCTION

Accommodation is one of the primary thing we keep in mind while emigrating from one region to the other and if you are a student then it is very difficult for you to find the accommodation at your own in a foreign country, And according to report of the Global Research Forum on Diaspora and Transnationalism India is the second largest nation from past 14 years for sending students to abroad for studies and students find difficulties in finding accommodation near their universities hence, In order to address this problem, we can create a framework that allows people to locate better amenities according to their preferences and it will suggest properties according to your preferences. We can develop this framework using the technology Angular and Ionic our application is divided in such a way that it will have two different systems the first one will be an Admin panel and the another one will be a user panel and then these two panels will have different functionalities.

Ionic is flexible and that can be effortlessly build cross platforms without any difficulties and it is very easy to develop the high end user interface with so many added functionalities, components and we can build this application at the same time which can be run on both mobile as well as on the web therefore for the building of the user panel for the application ionic is used and ionic allows you to develop your application under different frameworks such as you can build your application on Angular framework or this can be built with different framework like React etc. And for building the admin panel Angular is used as it builds single page application which is a very good feature as our page does not reload every time only the view is changed and Angular uses directives that adds the additional features and behaviour to the elements in the application it has feature of the built-in directive. This project uses visual studio code as IDE.

II. RELATED WORK

Several people have given different approaches that how an hybrid application can be built in an efficient manner. Some of them are mentioned below-

A Hybrid Mobile Application Based On Ionic Technologies by Bakwa Dunka, Yinka Oyerinde, Edim A Emmanuel [1] a research work on how the academic or theoretical aspects for developing the hybrid application into its practical implementation or execution.

To assure its usability on Android, iOS, and Windows platforms, a hybrid Mobile application was built using the upcoming Ionic framework and leaflet. The requirement to adapt the Ionic framework for hybrid mobile app development will provide simplicity and versatility and if broadly adopted, a hybrid app will eliminate competition in



market competitions for the top three mobile platforms.

Angular Js by Sneha ambulkar this research works discusses about how AngularJs can be used for making better and easily maintainable websites AngularJS can perform all jQuery can and more while that is in same size in terms of download size. Unit tests and end-to-end tests for AngularJS apps are simple to write and run. The handling of dependencies is simple and intuitive. Binding dynamic data to your views is simple and effective.

III. METHODOLOGY

According to the authors have observed that the major problem during migration occurs is to find accommodation hence we can develop this application that will be helpful in finding accommodation according to preferable choices. This framework can be developed by various technologies as there are many frameworks already available in the industries same can be utilized for the development. The escalation of technologies has helped in many ways as now it is easy to develop mobile application with frameworks like Ionic, React, Angular. The AngularJS framework is one of the most frequently utilized frameworks for building modern single-page web applications, which support dynamic views to support dynamic data.

A hybrid mobile application can also be viewed in its final form without having to compile for any specific platform such as iOS or an android. In this study, we center our design on a new hybrid mobile application frontend framework "Ionic". The same program for these application promises a simple yet timely approach to multiple platforms, and for the searching the property google is used for implementing the same.

IV. IMPLEMENTATION

In this research work authors have used Ionic and Angular for the development of the framework hence the implementation of this framework includes two phases first is implementation of the user panel that includes:

Installing Text Editor

Different text editors are available to work with and most of them are free of

Cost and open-source Vs Code is one of them it has great community of developers around it and have enough plugins.

Installing Ionic

First install Nodejs on the system before proceeding with ionic, for installing ionic run the command on the terminal \$ npm install -g @ionic/cli command will install the ionic globally and for starting the application run the command \$ ionic start and to run the application the browser run the command \$ ionic serve.

Authors have divided this application into two different panels as one of them is the Admin Panel and the other one is User Panel hence the flow of the admin panel

- Login Page
- Dash board
- Activity Log
- Tasks
- Users
- Group
- Property
- Tenants

First, considering the figure [1] login page has been made in which Authguard is used which checks that the whether is person is authorized or not because this website is an admin panel so everybody cannot access it.

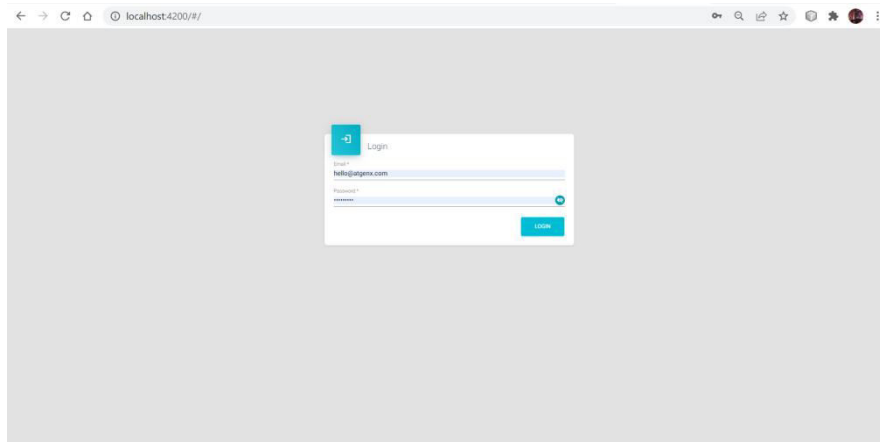


Figure 1. Login Page

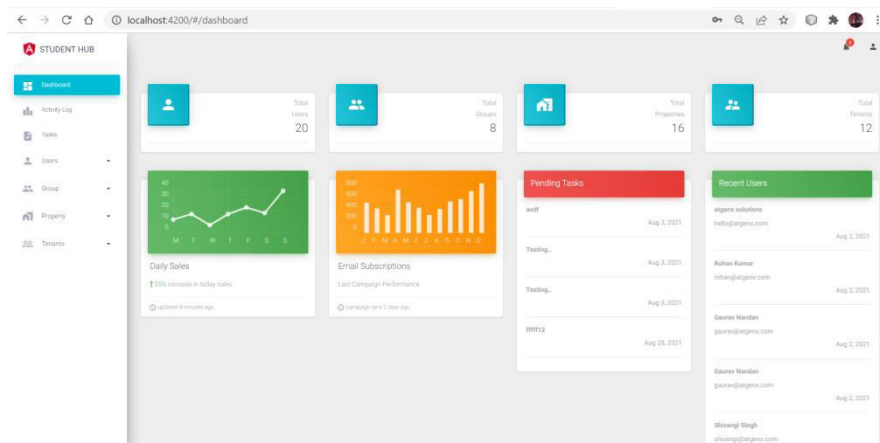


Figure 2. Dashboard Page

And next considering the figure [2] dashboard have been made which keeps tracks of the that how many total no users have applied till now and keep the count of all of them, and however it shows the number of properties rented till now, total numbers of tenants till now. It also keeps the tracks of daily sales that it has increased or decreased or the number of tasks are pending till now.

And then, Activity log is there which keeps track that how many users have added till now which have fields such as their Id, Name, Description, and at what day they have been added. It also has the feature of search where authors can search the user. After that they have added tasks where we can add any tasks and also furthermore option of deleting, on which date it has been added authors will be able to see that so basically, we will have track of our to-dos. And, they can also add the users and within user section author have three categories such as no of deleted user and users list. In users list it will contain all the details related user like name, Contact number and their E-mail id.

Afterwards authors possess the group component which contains the basic features about the groups and then they have also had property section which have sub sections such as list of properties and add property. And at last, author have the section of tenants which have sub sections like add tenants and tenant list that contains all the information regarding tenants.

In the similar manner Authors have developed the User panel on Ionic using Angular which have different components for automating the search on the basis of the preference of the user and for implementing this they have used google map features which provides the facility to users and match the amenities based on their priority and find the accommodation accordingly and it has various features which can be embedded into the application for better experience. It will detect your location and on the basis of that it will suggest you some properties nearby your preferred location, and then user panel consist of other sections where users can register themselves and create their profile after moving ahead on the panel they will have several other features such there is section of my property where user can see their property and for searching the property on the basis of the users choices google Map which is widely used for directional and route planner purpose and also allows the consumers to navigate to different places, measure distances, measure time, find methods of travelling, know your location, and also know the traffic availability on the way. It is



most frequently used application for navigational purposes. this recognition of Google maps can be credited to the numerous and salutary services offered by it. Using Google maps into the application gives users a known interface thereby providing them comfortable accessibility as it is very popular and almost everyone these days uses it for day-to-day purposes. Hence, the authors have Google maps for implementing map into the development of project. The users looking for accommodation are pleased to look for a location where their daily needs can be fulfilled properly without travelling much and sort their priorities according to their requirements and displaying the properties on the Google maps give users a better experience and detailed description and helps them plan their accommodation accordingly and easily.

V. EXPERIMENTAL RESULTS

Ensuing the research phase, it can be concluded that Ionic have advantages in the field of mobile application development as same application can be run on the web as well on the mobile. Subsequently which includes saving labor force and also reduces the cost, while considering the Ionic Framework for the project it allows to build a cross-platform application hence which comes with its own benefits such as it has built plugins and templates which saves the time. Hence it results in time efficiency moreover using Ionic framework provides the facility to use the web technologies programming languages for developing an application which can run on multiple platforms rather than using different languages for every platform. Therefore, authors have used hybrid of Ionic and Angular for the development of the application which gives the advantages of both the framework respectively. Angular has its own Plugin and templates which is very feasible to use and by using it, a single page application can be developed thereby providing users a better experience and for its better performance google maps has implemented for auto-mating the application since google map is widely used as a route planner and for navigation purpose from one place to other. It provides us estimated time and distance everyone uses it nowadays; it gives us known interface and even untrained person can easily use it and by implementing this in the project application becomes more user friendly. After implementing the complete methodology, the outcomes obtained are displayed in Figure [3] and Figure [4].

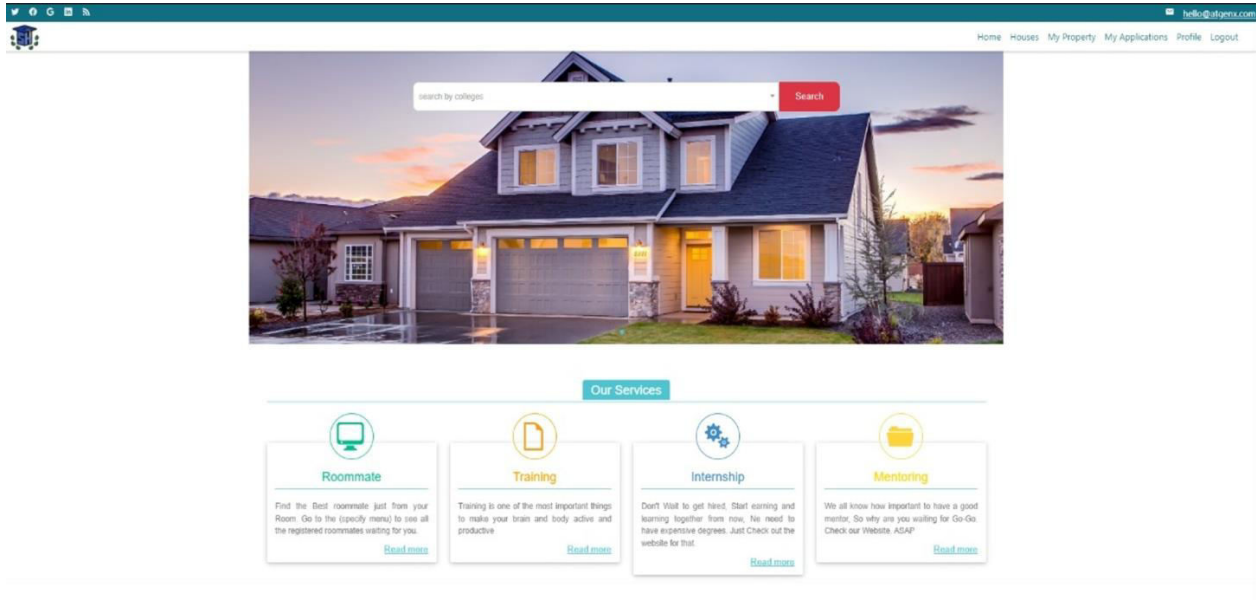


Figure 3 Home Page

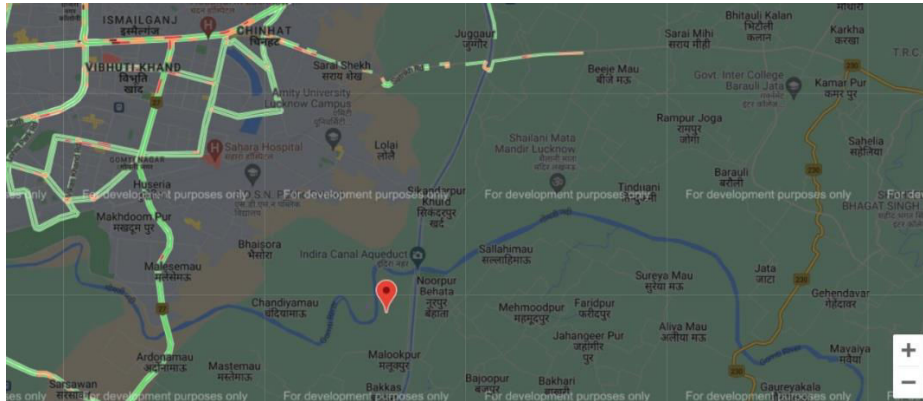


Figure4 Google Map

VI. CONCLUSION

Today , web application development is fastest growing domain ;applications are built in an optimized way possible so that they are able to solve many real world problems . Nowadays it is a very important task in the IT sector to deliver all the required features in the application as demanded by the client. The concept behind this study is to develop an application which will have feature of priority searching which means user can sort the property of their choices for this application Ionic and Angular are best Framework for the development as it provides features which helps in automating the application Ionic and Angular is one of the most impressive and amazing matches inside field of web application advancement. Most of the applications on play stores are assembled utilizing this blend. Features like component creation, code reusability, and excellent mobile user interface are easily achieved by the use of combination of Ionic and Angular. The authors have therefore used Combination of Ionic and Angular frameworks for interface development and appropriate interface experience and also reduce labor. and for the automation it has google maps which is widely used for directional and route planner purpose and also allows the consumers to navigate to different places, measure distances, measure time, find methods of travelling, know your location, and also know the traffic availability on the way. The frequently utilized application for navigational purposes hence the application is built with the help of these tech stack.

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