

## Uttarakhand Tourist App

Prof.Swati Jadhav, Ashish Gangurde(01), Mahesh Gastgar(02), Gauri Dhumal(04),Waidehi N. Gautam(05)

Department of Computer Science and Engineering

**Abstract** — As everyone knows that Uttarakhand is located in Himalayan region and there are many tourist destinations like national parks ,mountains ,trekking routes, and temples etc. so that many people visit different places in Uttarakhand to see their natural beauty. Tourism plays an important role in the employment and economy of the government In this paper we discussed about app related to tourism in Uttarakhand. We understood problem of peoples related to different apps. The main focus of creating app is to give best facility to user for their entire journey. This app give information about various places . We can book hotels and restaurant via online transaction through this app from anywhere . we can book so that it is very convenient to user. The main goal of the project is to create an android application which would help tourist who come to Uttarakhand for Char Dham yatra. It will help them as local guide in finding all the necessities like transportation, accommodation, Tourist places, yatra routes, etc.

**Keywords** — *Uttarakhand Tourist app, Tourism, Flutter, React.js, Char Dham yatra, Local guide,*

### I. INTRODUCTION

Tourism is a major source of income for the state of Uttarakhand. To provide further boost, we want to create a tourist-friendly application which will have the details of all the important places present in the state. The application should also help tourists get local information regarding the availability of stay and lodging at partner hotels. Increasing tourism in Uttarakhand and making it more Accessible.

Reducing the frauds regarding Tourism happening around and giving a upper-hand to the tourist. Bringing all the necessary information while traveling in the palm of hand.The motive is to educating the user about various places and their significance. The paper is about developing a app to solve and consider above things and making tourism more efficient and safe in Uttarakhand. Application to get info about important places .

### II. LITERATURE REVIEW

Uttarakhand is a well known State for tourism. It is popular for its different Religious Tourist places. Many tourists are attracted towards the natural beauty and culture in the state. That's why it's a great asset to the state. Tourism adds a good amount of economy to the state. Hence, the government takes a lot of efforts to leverage those things and try to make those better.

Lets Looks at some stats and Papers around it for tourism in Uttarakhand,

1. **Tourism in Uttarakhand:** - Bhanu Pratap Durga pal , Professor B. P. Singhal  
DOI:10.18843/ijms/v5iS5/02,DOIURL:<http://dx.doi.org/10.18843/ijms/v5iS5/02>

The state of Uttarakhand, located in the Himalayan belt, is a perfect tourist destination with snow-capped mountains, lakes and rivers, flora and fauna, easy and challenging trekking routes, pilgrimage and religious sites, wild life sanctuaries and national parks, fairs, events, and festive, and a safe and secure tranquil environment with friendly hosts. The purpose of this study is to discuss tourism statistics in Uttarakhand and how they work.

## 2. Mobile app Success Story: How TripAdvisor Did it

TripAdvisor is a platform that is just not an app but an enhanced system for the customers who want a seamless experience, no matter what device they are using in a certain moment. It is built in such a way that it has various features which are different from regular app. The app has excellent UI design and has such a splash screen which grabs user's attention for a few seconds. After that the onboarding in the app starts, which is a simple sign-in page. Their app has a great feature, that the entire collection of tools provided by them is available offline, cause sometimes it is impossible to have proper internet connection (as users can be lost in the middle of the desert or can be trapped in an unknown area or jungle). It has information from around more than 300 cities all over the world. It also has the personalization feature which makes it more user friendly.

## 3. Prospects and Problems of Tourism Industry in Uttarakhand

[https://www.researchgate.net/publication/321236249\\_Prospects\\_and\\_Problems\\_of\\_Tourism\\_Industry\\_in\\_Uttarakhand](https://www.researchgate.net/publication/321236249_Prospects_and_Problems_of_Tourism_Industry_in_Uttarakhand)

Tourism is a vital source of development for a location, but majorly supported infrastructure construction is having a negative influence on tourism and the area surrounding the business. These states are losing their luster due to haphazard building and a lack of government control; therefore, good destination management and knowledge are essential to restore the luster to these tourist attractions. Our research focuses on the Himalayan state of Uttarakhand, and it is divided into three sections: the first is to understand tourism from a strategic management perspective, using a general framework of tourism management and "S" curve analysis, and the second is to understand problems associated with the tourism industry in Uttarakhand, such as aesthetic pollution, physical impacts, and biodiversity loss, depletion of ozone

layer, solid waste and littering, climate change and then last part is associated with the suggestive measures by the method of destination discontinuity.

## 4. How does Trivago make Money? Trivago Business Model, Growth and Statistics

Trivago - Trip Vacation and Go is a hotel search engine that aims to reinvent the way travelers compare and book hotels online. This company was formed in 2005 by three college buddies and has grown significantly over the years. It works in such a way that it compares over 700,000 hotels and attracts about 5 million visitors. It earns money through taking commissions from hotels listed on its site, which is known as referral revenue, as well as subscription fees and a pay-per-click option. They also offer a website where hotels can register for free and then sell subscriptions to get their hotel to the top of the list.

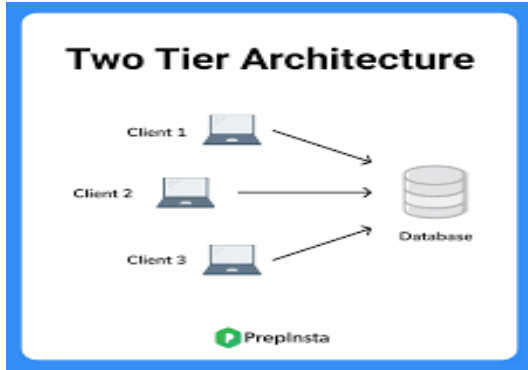
## IV. ARCHITECTURE

The architecture used here is a two tier architecture. Its Software architecture where the layer to present or interface gets execute or run on a client, and data is stored on a server place. In the interface we have used is flutter and dart .

**Flutter** -It is a SDK (software development kit) where some code is already prewritten, and is accessible or ready to use, having customizable widgets, as well as libraries, with documentation and tools creating a build platform for apps.

**Dart**-Dart is a programming language used by flutter, flutter is used to create cross-platform apps (for android & ios). The programming language used is dart. It is used by flutter to create apps for android and ios. It offers the most effective programming language for multiple type platforms, having a flexible execution runtime platform for the frameworks.

**Database**-The database used is No sql.NoSQL databases is designed for scattered data stores which has extremely large data storage capacity.NoSQL has more flexibility than relational database. It is rigid option for companies which has large quantities of data.



A.

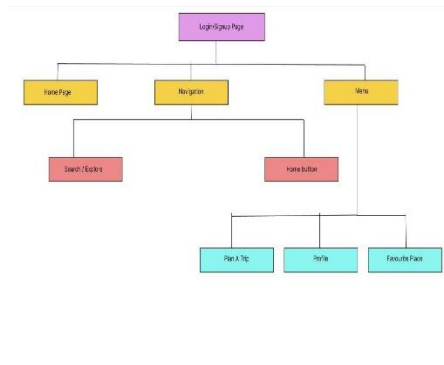
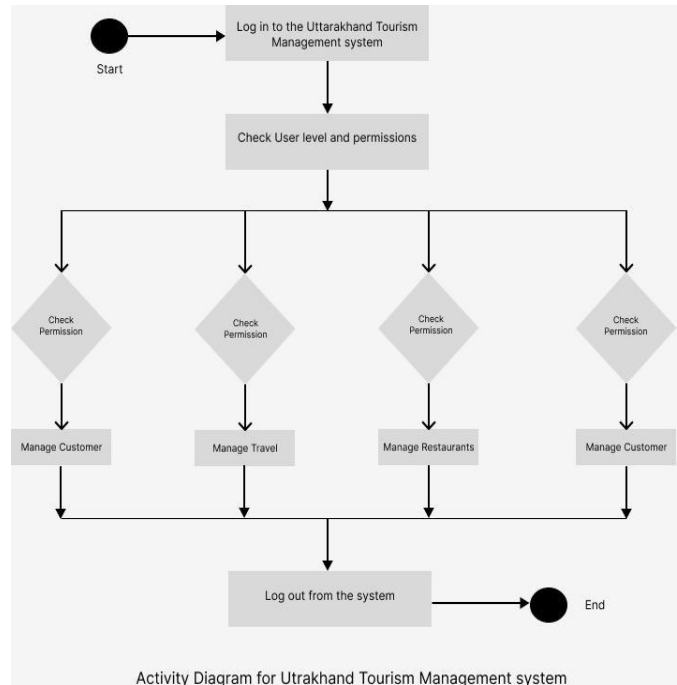


fig-(1)

**B. DESIGN PROCESS**

**Activity Diagram –**

The activity diagram is a diagram which describes the inflow of work in our system and relate to way involved in prosecution of use cases. The main focus of activity diagram is on flow and sequence of condition in which it happens. Activity is a particular mechanism of the system. This tool is not only used for imaging the dynamic nature of a system, but they're also used to construct the executable system by using forward and reverse engineering ways. There is absence of communication part in activity diagram. Activity diagram is sometimes considered as the flowchart. Although the diagram look like a flowchart, they're not. It shows different overflows such as parallel, branched, concurrent, and single.



Activity Diagram for Uttarakhand Tourism Management system

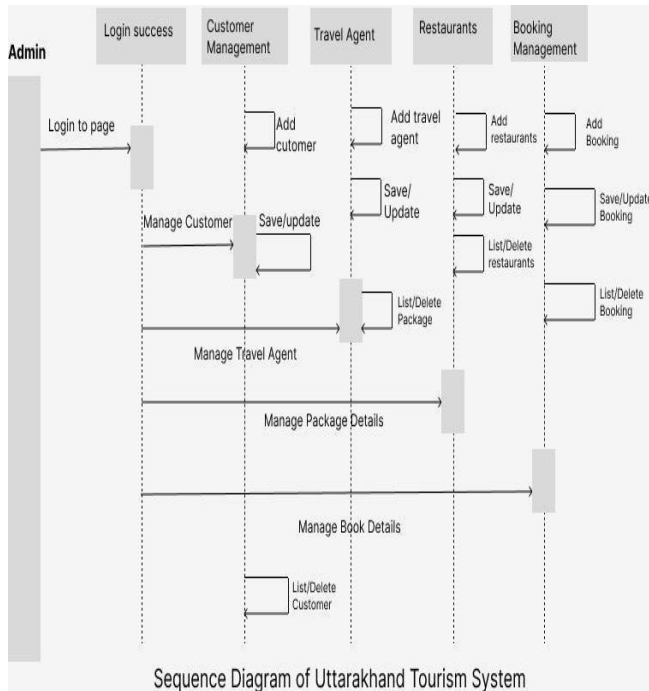
fig-(2)

**Sequence Diagram-**

The sequence diagram represents the flow of messages within the system and is additionally termed as an occasion diagram. It helps in imagery many dynamic eventualities. It portrays the communication between any 2 lifelines as a time-ordered sequence of events, specified these lifelines took half at the run time. In UML, the lifeline is depicted by a vertical bar, whereas the message flow is depicted by a vertical line that extends across very cheap of the page. It incorporates the iterations further as branching. The purpose of sequence diagram is to model high-level interaction among active objects within a system.

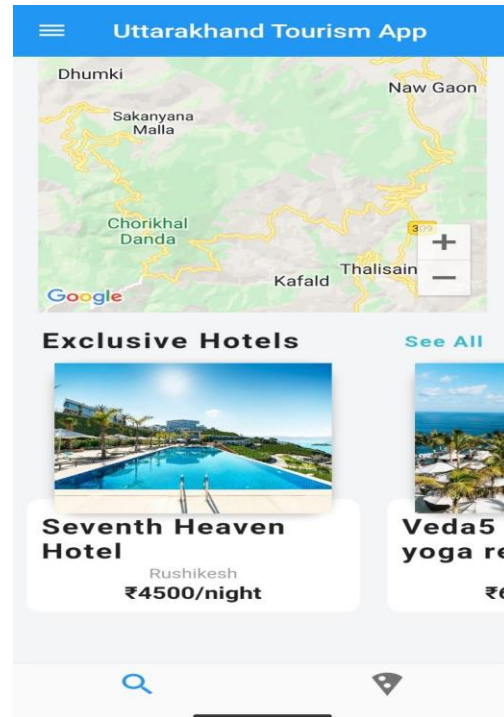
The working of the project Accident Detection and Alert System using Arduino can be summarized in points below:

1. The vibration sensor detects jolt like vibrations, so system infer that an accident has occurred.
2. Then, the location details of the vehicle are collected by the GPS module from the satellite, this information is in the form of latitude and longitude scales.
3. Thus, collected information is then fed to Arduino Uno.



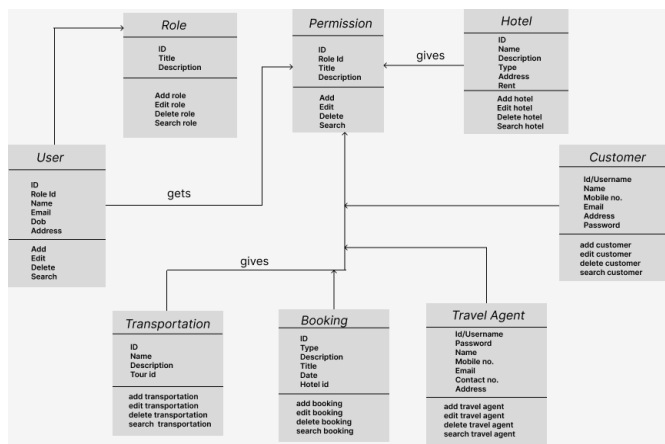
fig(3)

suggestions of places wherever and once needed supported different users plans.



fig(5)

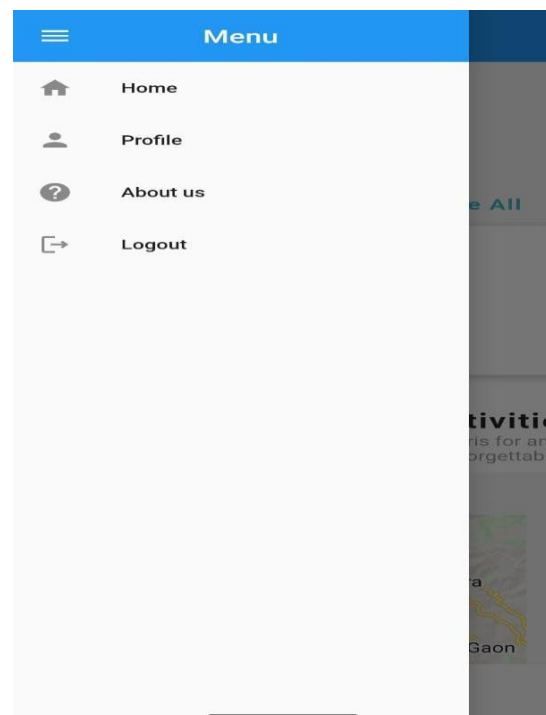
**Class Diagram-**



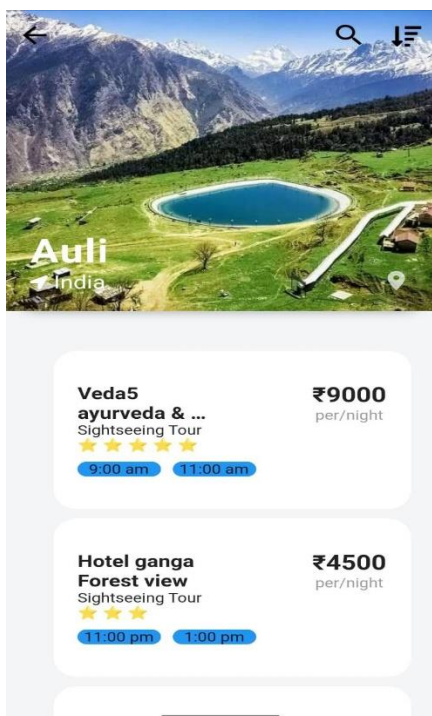
fig(4)

**V. IMPLEMENTATION OF APP**

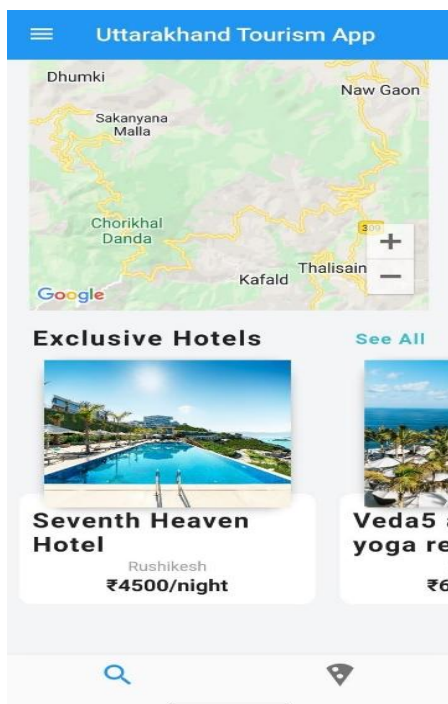
In this system, the user will build on a daily basis arrange by choosing his list of places supported his preferences of Food & place kind. There is any range of plans created and every one the places area unit fetched mistreatment Google place API and supported Highest rating. The system can offer



fig(6)



fig(7)



fig(8)

### VI. PRODUCT BACKLOG

Project managers, product managers, and software developers must estimate the amount of work

necessary to fulfill a development assignment as part of the estimating process.

Order	TYPE	TASK/ STORIES NAME	RESPONSIBLE	Story Points	COMMENTS
1	Sprint 1	Discussing all the functionality of the app and finalizing it.			This Sprint is Regarding all the Finalization of designing the app UI.
2	Story	As a User, I want information about all the tourist places.		2	
3	Story	As a User, I want Maps integration.		1	
4	Story	As a User, I want to know all the amenities I could get in short range.		1	
5	Task	Finalizing the pages.		2	
6	Task	Designing and Finalizing UI for the App.		5	
7	Sprint 2	Build 1			UI Development Section.
8	Task	Start Building UI		5	
9	Task	Connections to the database		2	
10	Task	Finding ways to integrate maps in the project		2	
11	Task	Looking for different features that can be added to the app		2	
12	Story	As a user, I want Personalized feed and Travel guide		1	

With the help of product backlog and Sprint planning combined with planning poker work gets a lot more efficient. A common bottleneck that all experience. Estimation has a double-edged sword: it's very helpful for breaking down large projects into smaller, more manageable jobs, but a mistake could throw off long-term project planning. Product development teams regularly face pressure from management to improve the accuracy of their estimates, but this is easier said than done. These teams must decide not just how to estimate but also when is the best to do so. The method of "planning poker" can aid in streamlining agile estimating. Let's examine this tactic in more detail.

### VII. FUTURE SCOPE

Technology is ceaselessly evolving and can still do therefore within the returning era. The modification within the technology is additionally impacting the industries like cosmetic trade, health trade, education, amusement, the travel trade and lots of additional. Travel and business enterprise trade is not any longer hidden and gone square measuring the times once motion the planet was like an unknown step. it's reworked and technology has reinvented the various ways to explore motion for you so you'll notice places simply. Now travel

agencies and physical booking are decreasing thanks to the travel mobile apps. In keeping with the survey travel-based mobile apps square measure on the fifth position within the downloaded class and hr of smartphone users opt to use travel and business enterprise apps whereas designing their holidays instead of attending to travel agents. Bookings of hotels can not be done. Wrong inputs can have an effect on the project outputs. Net affiliation is necessary .A Plan can not be updated. solely day arrange is created. These square measure basic desires that require to be done besides this square measure several different services provided by mobile apps. Travel updates, pictures, reviews etc.

## IX. REFERENCES

1) **Bhanu Pratap Durgapal, Professor B. P. Singhal**[2018]-Tourism in Uttarakhand.

2)**Rana, Gaurav Kumar, Suneel** [2016]-Prospects and Problems of Tourism Industry in Uttarakhand.

3]<https://appsamurai.com/mobile-app-success-story-how-tripadvisor-did-it/>

4)<https://startuptalky.com/trivago-case-study-how-they-earn/>

5)**Barry Brown and Matthew** Chalmers Computing Science, University of Glasgow, Glasgow, G12 8QQ, United Kingdom Tourism and mobile technology

6)**Baernholdt ,J. O Haldrup M.,Larsen, and Urry, J.** (2004). Performing Tourist Places. Aldershot: Ashgate.

7)**Dickinson, J.E., Calver, S., Watters, S., & Wilkes, K.** (2004). Journeys to heritage attractions in the UK: a case study of National Trust property visitors in the south-west. Journal of Transport Geography, 12(2), 103-113.

8)**Davies, N., Lau, M., Speed, C., Cherrett, T., Dickinson, J., & Norgate, S.H.** (2012). Sixth Sense Transport: Challenges in Supporting Flexible Time Travel. The 13th International Workshop on Mobile Computing Systems and Applications, Feb 28-29, San Diego, California.