

CHAPTER 1

INTRODUCTION

1.1 Objectives of the project

- To provide best travelling service to customers and travelling agents.
- To provide a search platform where a tourist can find their tour places according to their choices.
- To promote responsible and interesting tourism so that people can enjoy their holidays at their favorable places.
- To develop tourism with different cultures so that they enrich the tourism experience and build pride.
- To create and promote forms of tourism that provide healthy interaction opportunities for tourists and locals and increase better understanding of different cultures, customs, lifestyles, traditional knowledge and beliefs.
- To provide a better way to connect with various events

1.2 About the project

- Welcome to Bhopal, the capital city of the central Indian state of Madhya Pradesh! Bhopal is a city known for its rich history, magnificent architecture, and vibrant culture. Whether you are a history enthusiast, a nature lover, or an art connoisseur,
- Bhopal offers a plethora of attractions and experiences that will leave you enchanted. Bhopal Darshan Tourism Guide is here to help you navigate through this beautiful city and make the most of your visit. Our comprehensive guide will take you on a journey through the historical landmarks, cultural treasures, natural wonders, and culinary delights that Bhopal has to offer
- Begin your exploration by delving into the captivating history of Bhopal. The city boasts a fascinating blend of Islamic and Hindu influences, evident in its architecture and traditions. Visit the magnificent Taj-ul-Masjid, one of the largest mosques in Asia, or explore the enchanting Gohar Mahal, a stunning palace built during the reign of Quddisiya Begum. For history buffs, the Bhopal State Museum is a treasure trove of artifacts and exhibits that chronicle the region's past.

1.3.Methodology

- Extensive research: Gather information from reliable sources such as historical records, books, official tourism websites, and local experts.
- Field surveys: Conduct site visits to the various attractions in Bhopal, documenting their significance, architectural features, and visitor facilities.
- Data compilation: Organize the collected information into a structured format, ensuring accuracy and relevance.
- Design and layout: Create an aesthetically pleasing and user-friendly tour guide, incorporating maps, images, and relevant descriptions.

CHAPTER 2

Requirements

2.1 Functional Requirement

- **Comprehensive Data:** Gather and maintain an extensive database of tourist destinations, attractions, accommodations, restaurants, transportation options, and relevant information such as operating hours, prices, and contact details.
- **Real-Time Updates:** Ensure the guide has up-to-date information regarding attraction availability, opening/closing times, special events, and local news.
- **Map Integration:** Incorporate map services to display locations, routes, and proximity to nearby attractions. Utilize APIs such as Google Maps or OpenStreetMap.
- **Social Features:** Integrate social media platforms or user-generated content to allow users to share experiences, leave reviews, and provide recommendations to others.

2.2 Non-Functional Requirements

- The non-functional requirements that are needed in the app are:
- Performance-All calculations are fast
- Portability-Allows the app to run on most devices
- Reliability-Does not allow the app to crash frequently
- Flexibility-Allows for the use of all the various apps together

2.3 Software Requirement Specifications

- **Operating System (OS):** For developing an Android app, a computer or laptop running Windows 10 operating system used here to install and run the necessary software.
- **Front and Back end Development:** The front-end and back-end of the app are developed using Android Studio, the official integrated development environment for Android app development.

- **Server Documentation:** The server documentation used for the app is created using Microsoft Office, providing detailed information about the APIs, endpoints, data formats, and authentication methods required for communication between the app and the server.
- **Languages used:** The language used to develop the application is Java.

2.4 Hardware Requirement Specifications

- **Android Device:** A mobile device or emulator running Android OS.
- **Processor:** A basic processor capable of running Android apps.
- **Memory (RAM):** At least 1GB of RAM for smooth app performance.
- **Storage:** Adequate storage space to install the app and user data.
- **API:** The API level used here is 32.
- **SDK:** The minimum SDK required is 25.

2.5 Developer Environment Specification

- 64-bit versions of Microsoft Windows 10, 8, 7 (SPE)
- 4 GB RAM minimum, 8 GB RAM recommended

CHAPTER 3

Modules

3.1 Modules present in this Application.

- Home/Welcome Screen: The landing page or home screen of the application, providing an overview and options for exploring Bhopal.
- City Guide: A comprehensive guide to Bhopal, including information about its history, culture, attractions, and points of interest.
- Places to Visit: A module that highlights the popular tourist attractions in Bhopal, providing detailed information, photos, and reviews for each place.
- Maps and Navigation: Integration with maps and GPS services to help users navigate their way around Bhopal, providing directions to different attractions and landmarks.
- Tours and Itineraries: Predefined or customizable tours and itineraries for visitors, suggesting the best ways to explore Bhopal based on their preferences and time available.
- Events and Festivals: Information about upcoming events, festivals, and cultural activities happening in Bhopal, allowing users to plan their visit accordingly.
- Restaurants and Dining: A module featuring a list of restaurants, cafes, and eateries in Bhopal, along with reviews, ratings, and recommendations for different cuisines.
- Accommodation: Information about hotels, guesthouses, and other accommodation options in Bhopal, including pricing, availability, and booking functionality.

3.2 Features

- **Home Screen and Navigation:**
- The application's home screen provides an intuitive interface with easy-to-access modules and options.

- Users can navigate through different sections of the app, such as attractions, tours, events, and dining, using a user-friendly menu or navigation bar.
- **City Guide and Attractions** The application offers a comprehensive city guide providing information about Bhopal's history, culture, and significant landmarks.
- Users can explore a list of popular attractions, including historical sites, museums, parks, and religious places.
- Each attraction is accompanied by detailed descriptions, photos, opening hours, admission fees, and user reviews.
- **Tours and Itineraries:**The application provides pre-defined or customizable tour packages for users to discover Bhopal efficiently.
- Users can select from various tour options based on their preferences, including duration, interests, and specific attractions they wish to visit.
- The app generates optimized itineraries and provides navigation guidance for each tour.
- **Maps and Navigation:**Integration with maps and GPS services enables users to navigate their way around Bhopal easily.
- Users can access interactive maps with marked attractions, restaurants, accommodations, and other points of interest.
- The app provides turn-by-turn directions, estimated travel times, and alternate routes for efficient navigation.
- **Events and Festivals:**The application features a calendar of upcoming events, festivals, and cultural activities happening in Bhopal.
- Users can view event details, schedules, locations, and ticket information.
- The app may offer notifications or reminders for events of interest.
- **Dining and Restaurant Recommendations:**Users can explore a comprehensive list of restaurants, cafes, and eateries in Bhopal, categorized by cuisine type and price range.
- Each listing includes reviews, ratings, menus, contact information, and directions.

- The app may offer personalized restaurant recommendations based on the user's preferences and location.

3.3 use case

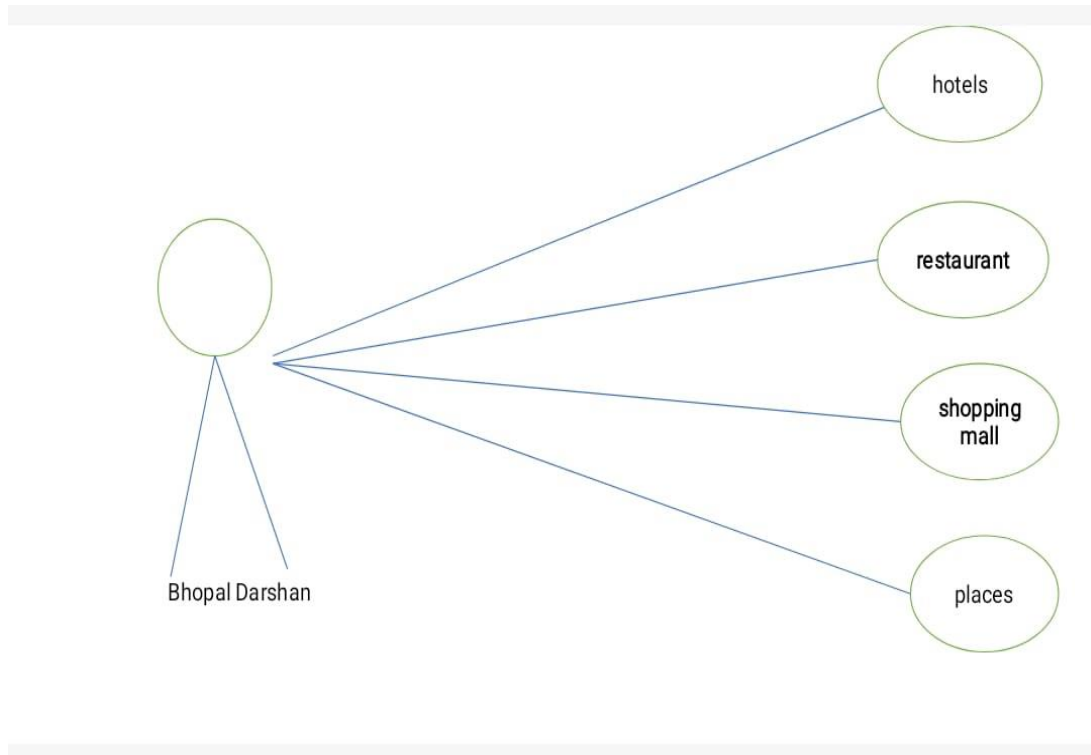


Fig1 use case diagram

Chapter 4

Implementation

MainActivity

```
package com.rohit.examples.android.bhopaldarshan.Activity;
import android.os.Bundle;
import android.support.design.widget.TabLayout;
import android.support.v4.view.ViewPager;
import android.support.v7.app.AppCompatActivity;
import com.rohit.examples.android.bhopaldarshan.Adapter.TabAdapter;
import com.rohit.examples.android.bhopaldarshan.Fragment.EventFragment;
import com.rohit.examples.android.bhopaldarshan.Fragment.HotelFragment;
import com.rohit.examples.android.bhopaldarshan.Fragment.PlaceFragment;
import com.rohit.examples.android.bhopaldarshan.Fragment.RestaurantFragment;
import com.rohit.examples.android.bhopaldarshan.Fragment.ShopFragment;
import com.rohit.examples.android.bhopaldarshan.R;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        // Fetching view IDs from resource
        ViewPager viewPager = findViewById(R.id.viewPager);
        TabLayout tabLayout = findViewById(R.id.tabs);

        // Registering TabLayout with FragmentManager
        TabAdapter tabAdapter = new TabAdapter(getSupportFragmentManager());
```



```
// Adding Fragment with help of TabLayout adapter
tabAdapter.addFragment(new HotelFragment(), getString(R.string.hotels));
tabAdapter.addFragment(new PlaceFragment(), getString(R.string.places));
tabAdapter.addFragment(new RestaurantFragment(), getString(R.string.restaurants));
tabAdapter.addFragment(new ShopFragment(), getString(R.string.shoppings));
//tabAdapter.addFragment(new EventFragment(), getString(R.string.events));

//Setting the Fragments with ViewPager
viewPager.setAdapter(tabAdapter);

//Setting up TabLayout with ViewPager
tabLayout.setupWithViewPager(viewPager);
}
```

```
package com.rohit.examples.android.bhopaldarshan.Activity;
```

```
import android.content.Intent;

import android.os.Bundle;

import android.os.Handler;

import android.support.v7.app.AppCompatActivity;

import android.view.View;

import android.view.animation.Animation;

import android.view.animation.AnimationUtils;

import android.widget.ProgressBar;

import android.widget.TextView;
```

SplashActivity

```
import com.rohit.examples.android.bhopaldarshan.R;
```

```
public class SplashActivity extends AppCompatActivity {

    // Variable declaration for available views on UI

    private TextView name_text;

    private TextView tag_text;

    private ProgressBar progressBar;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_splash);

        // Fetching IDs of views from ID resource

        name_text = findViewById(R.id.app_name_text);

        tag_text = findViewById(R.id.app_name_tag);

        progressBar = findViewById(R.id.progressBar);

        //Hiding the views

        name_text.setVisibility(View.INVISIBLE);

        tag_text.setVisibility(View.INVISIBLE);

        progressBar.setVisibility(View.INVISIBLE);

        // Constant time variables to handle animation delays

        int START_TIME = 1500;

        new Handler().postDelayed(new Runnable() {

            @Override

            public void run() {

                Animation fade = AnimationUtils.loadAnimation(SplashActivity.this, R.anim.fade_in);

                name_text.startAnimation(fade);
```

```
        tag_text.startAnimation(fade);

        name_text.setVisibility(View.VISIBLE);

        tag_text.setVisibility(View.VISIBLE);

    }

}, START_TIME);

// Handling time delay for launching next activity

int LAUNCH_TIME = 3000;

new Handler().postDelayed(new Runnable() {

    @Override

    public void run() {

        progressBar.setVisibility(View.VISIBLE);

        Intent intentMain = new Intent(SplashActivity.this, MainActivity.class);

        startActivity(intentMain);

        //Finishing SplashActivity as soon as intent passed to MainActivity

        finish();

    }

}, LAUNCH_TIME);

}

}
```

CHAPTER 5

Snapshots



Fig.2 its a first figer of the App.

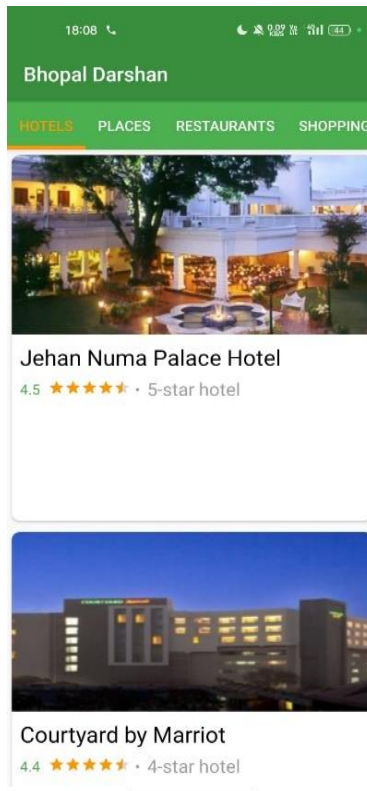


fig.3 , List of hotels.

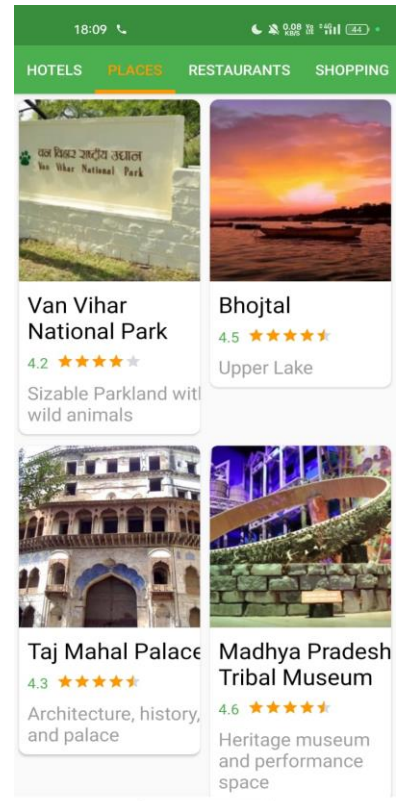


fig.4 , List of places.

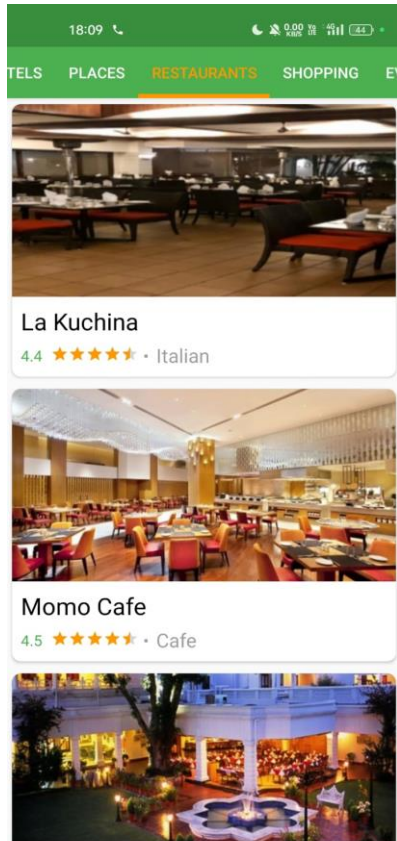


fig.5 , List of restaurant.

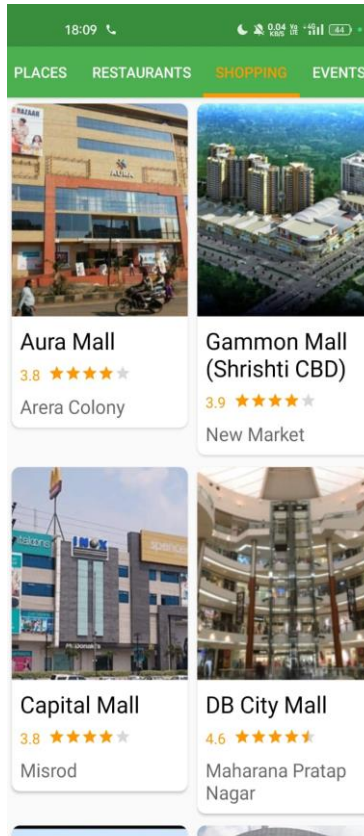


fig.6 ,List of shopping mall.

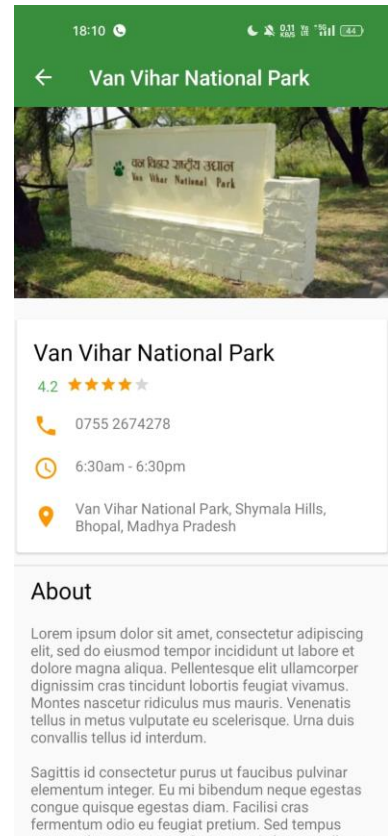
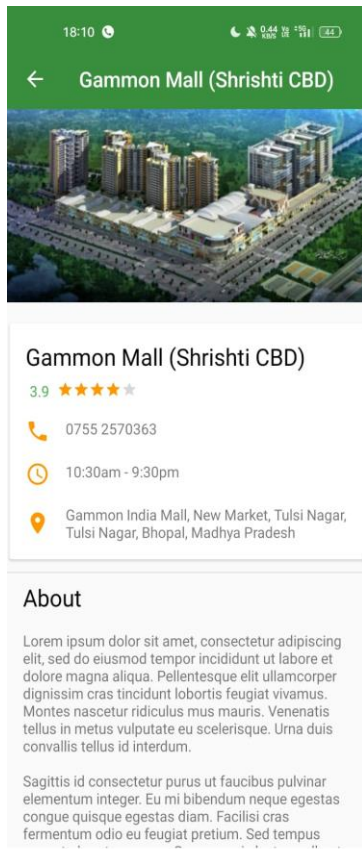


fig.7 Van vihar National park



in the fig.8, gammon mall.

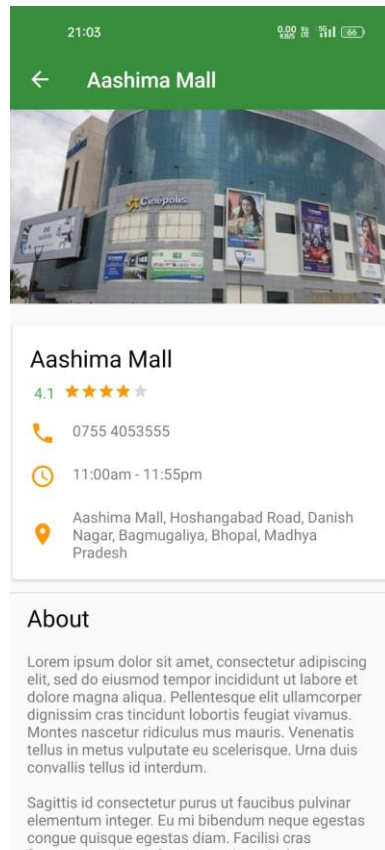


fig.9 Aahima mall.

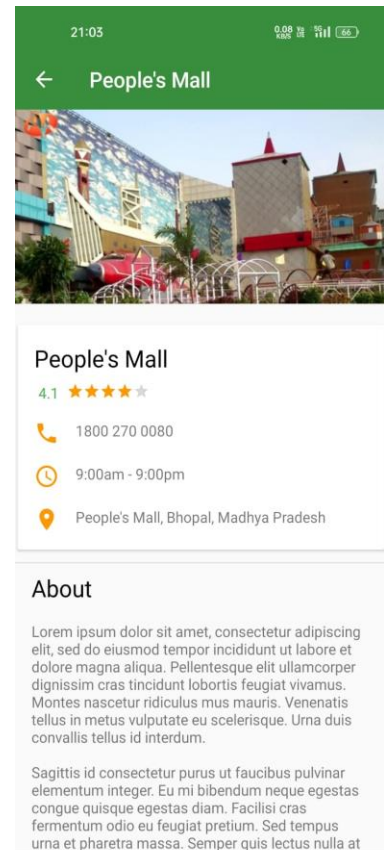


fig.10 peoples mall.

CHAPTER 6

Conclusion and Future Enhancements

Conclusion

The Bhopal Darshan offers a captivating and enriching experience for visitors, showcasing the rich cultural heritage and historical significance of the city. After exploring the various attractions and immersing oneself in the local traditions, it becomes evident that Bhopal is a city that seamlessly blends the old with the new, creating a unique and vibrant atmosphere.

Throughout the journey, visitors are treated to architectural marvels such as the magnificent Taj-ul-Masajid, which stands as a testament to the city's Islamic heritage. The regal grandeur of the Gohar Mahal and the tranquil beauty of the Upper Lake leave a lasting impression, reflecting the city's historical and natural splendor.

Bhopal's cultural tapestry is equally captivating. The Bharat Bhavan, with its extensive collection of art and performances, celebrates the diverse artistic expressions of the region. The bustling bazaars and vibrant street markets offer an authentic taste of local life, filled with colorful textiles, handicrafts, and delectable street food.

Furthermore, Bhopal is also known for its rich history and the tragic events that unfolded in 1984 during the gas leak disaster. The visit to the memorial and museum dedicated to the victims serves as a solemn reminder of the importance of safety, accountability, and the need for constant vigilance in preventing such calamities.

Overall, Bhopal Darshan leaves visitors with a profound appreciation for the city's architectural wonders, cultural heritage, and resilience in the face of adversity. It is a journey that allows one to immerse themselves in the vibrant tapestry of Bhopal's past, present, and future, making it a destination worth exploring for anyone seeking an authentic and memorable experience.

Future Enhancements

Digitized Information and Audio Guides: Implementing digitized information boards and audio guides at key attractions can provide visitors with detailed information about the history, significance, and cultural aspects of each site. These guides can be available in multiple languages to cater to a diverse range of visitors.

Virtual Reality (VR) Experiences: Introducing VR technology to certain attractions can offer visitors a virtual journey through time, allowing them to explore historical landmarks in their original grandeur. VR experiences can provide a more immersive and interactive way of experiencing the city's rich heritage.

Interactive Exhibits and Museums: Enhancing existing museums and creating interactive exhibits can engage visitors on a deeper level. Incorporating multimedia displays, touchscreens, and immersive storytelling techniques can bring the history and culture of Bhopal to life, making it more engaging and educational.

Cultural Experiences: Developing cultural immersion programs that allow visitors to participate in local art forms, traditional crafts, and culinary experiences can create a more immersive and authentic visit. This can include workshops, demonstrations, and interactive sessions that provide hands-on experiences of Bhopal's cultural heritage.

Smart City Integration: Leveraging technology and connectivity to transform Bhopal into a smart city can enhance the overall experience for visitors. This can include implementing smart transportation systems, digital wayfinding, and providing real-time information about attractions, events, and local services through mobile apps or digital platforms.

Ecotourism Initiatives: Promoting ecotourism and sustainable practices within the Bhopal Darshan experience can contribute to preserving the city's natural beauty and ecosystems. This can involve organizing nature walks, promoting responsible tourism practices, and raising awareness about environmental conservation.

Community Engagement: Involving local communities in the Bhopal Darshan experience can foster a sense of pride and ownership. Encouraging local artisans, performers, and entrepreneurs to participate in the tourism industry can create economic opportunities and provide visitors with an authentic and immersive cultural experience.

References

- ❖ [Headfirst Android Development](#) Dawn Griffiths 1st edition
- ❖ <https://developer.android.com/>
- ❖ <https://developer.android.com>
- ❖ <https://www.javapoint.com>