



**Pokhara University Affiliate**  
**LA GRANDEE International College**  
**Simalchaur 8, Pokhara, Kaski**

A Project Proposal/Report

On

**Trip Planner Application**

**Submitted To**

LA GRANDEE International College  
Bachelor of Computer Application (BCA) Program

In partial fulfillment of the requirements for the Degree of BCA affiliate to  
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Submitted By:	Symbol no:	Registration no:
Dammar Khadayat	19530107	201 8-1-53-0107
Jeevan Bastola	19530110	2018-1-53-0110
Nabin Poudel	19530115	2018-1-53-0115

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# **Table of Contents**

<b>List of Abbreviation</b>	<b>i</b>
<b>List of Figures</b>	<b>ii</b>
<b>1. INTRODUCTION</b>	<b>1</b>
<b>2. PROBLEM STATEMENT</b>	<b>2</b>
<b>3. OBJECTIVES</b>	<b>3</b>
<b>4. BACKGROUND STUDY</b>	<b>4</b>
<b>5. METHODOLOGY</b>	<b>5</b>
<b>6. DELIVERABLES</b>	<b>9</b>
<b>7. TIME SCHEDULE</b>	<b>10</b>
<b>8. REFERENCES</b>	<b>11</b>

## **List of Abbreviation**

BCA: Bachelor of Computer Application

DFD: Data Flow Diagram

ERD: Entity Relationship

SQL: Structure Query Language

VB: Visual Basic

## **List of Figures**

FIGURE 1: PROTOTYPE MODEL	5
FIGURE 2: ENTITY RELATIONSHIP DIAGRAM (ERD	6
FIGURE 3: DATA FLOW DIAGRAM (DFD)	7
FIGURE 4: GANT CHART	10

# 1. INTRODUCTION

There is nothing amazing like traveling, seeing a new place for the first time or returning to a favorite place. People of all ages, from all countries, love to travel and explore many different places. This Trip Planner application is a specialized application used to find optimal means of travelling between two or more given locations, sometimes using more than one transport mode. Searches may be optimized on different criteria, on days, time, budget, hotel, restaurant, transportation facilities, places to travel etc.

This desktop application also suggests the user to visit those hidden places which are rich with natural beauty and resources. It shows the places where user can travel within the particular time. It shows cafes, beaches, etc. available in that places as per the choices made by user. The main purposes of this software are to guide tourists for the trip plan, provide information about budget, time period, available resources of that place, difficulties they have to face in that place and mainly this system provide information about active, in-active, and upcoming places, etc. Here there is another module Admin where admin can login and add, update and delete the places and can also see the users.

## **2. PROBLEM STATEMENT**

There is nothing amazing like traveling, seeing a new place for the first time or returning to a favorite place. People of all ages, from all countries, love to travel and explore many different places. When people make trip plan, they are in dilemma to visit which places they want to visit as they don't have information about their destined places. Many people and tourists are unknown about such places which are rich and full of natural beauty and resources. There are many places to travel don't know about beauty of that places. They have no any idea about new places, upcoming places, non-active places and active places. They don't get right information about that hidden places. When they go for outing such as: trekking, camping and hiking some people give them wrong direction and wrong information of that place. There are so many problems in trip plan.

This system provides all information about active places, upcoming places and non-active places, provides right guidance to the visitor or travelers, helps tourist to reach in the destined place and provide information about the cost, transportation facilities, available hotel, guest house of that places. Internal and external tourists will easily go to their destination.

### **3. OBJECTIVES**

Trip Planner software has some objectives that are given the following:

- ✓ To make it easy our team developed trip planner system for those who want to travel.
- ✓ In this system people know about various places.
- ✓ To provide information about active and in-active places.
- ✓ To provide information about under construction places.
- ✓ Give information and suggestion which place are adventurous and beautiful.
- ✓ To provide right information about all type of places.

## **4. BACKGROUND STUDY**

In Nepal, there are many tourist places. We think about travel and tourism for internal and external tourists trip planner system because in Nepal, there is no any guideline application which is give all information complete about tourist places. This system is a system which is give all information about tourist places such as budget, time (dependent on transportation), place details, use of transportation etc. this system used by individual.

Nishant Gola make a project on My Favorite Road Trip Planner system. In this system, you can customize your journey with various available activities like hiking, walking, driving, motorcycling etc. According Nishant Gola, it displays the information of various places, address, contact number etc. you can rate a place which you visit by creating an account on its website. It also shows the uploaded videos and images of tourist places [1].

After read Nishant's system, there we find some drawback. In that system, system is not update active, in-active and upcoming famous places. These are the drawback of that system. Thus, we overcome these drawbacks by Trip Planner System.

According to travel and tourism agency, there is some guideline system but these systems can't provide complete information about famous tourist places. Thus, tourists can't reach their destination easily. this system is overcome these all problems completely.



## 5. METHODOLOGY

Since the requirement of our project change with user requirement so we use Prototype Model to develop our project. In this model we go through each step of SDLC.

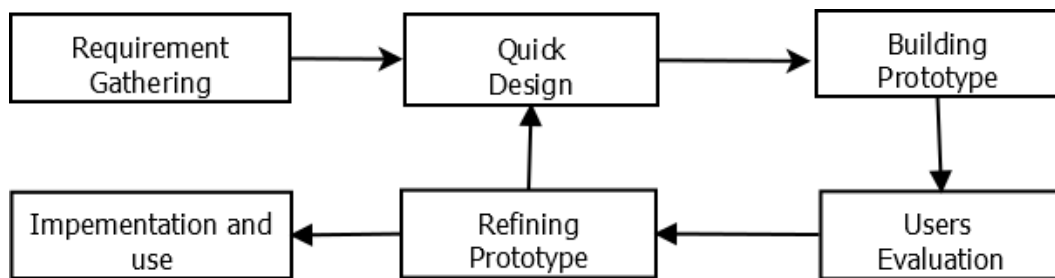


Figure 1: Prototype Model

### 5.1 PROBLEM IDENTIFICATION

We have started our project on Trip Planner system. Our practical to develop our program is to identify the problem. Following are the problems we have identified:

- The present systems are inadequate in providing information and advices to the travelers about the active and unactive places as well as the desire places that the travelers want to visit.
- People are often confused with the travel destination, cost, time, accommodations etc.

### 5.2 PROBLEM ANALYSIS

After the successful identification of problems, we start to find the solution that can minimize the problem of present Trip Planner system. We analyzed the problems in the following ways:

- This system helps to make the strong relationship with the customer so they can enjoy their holidays.

- This system will provide the display platform in which the travelers can find their tour places according to their choices.
- This system helps to develop the tourism with different cultures so that they enrich the tourism experience and built the pride.
- We analyzed that this project will complete within 12 weeks.

### 5.3 PROBLEM DESIGN

#### Entity Relationship Diagram (ERD)

ERD is the entity relationship diagram that based on notation of teal world entities and relationships among them. It is used generally for the conceptual design of database. In the given figure, there are two entities, one relationship and some attributes. The relationship between users and places is take information and select trip places. The cardinality ratio between users and places is many to many (M: N).

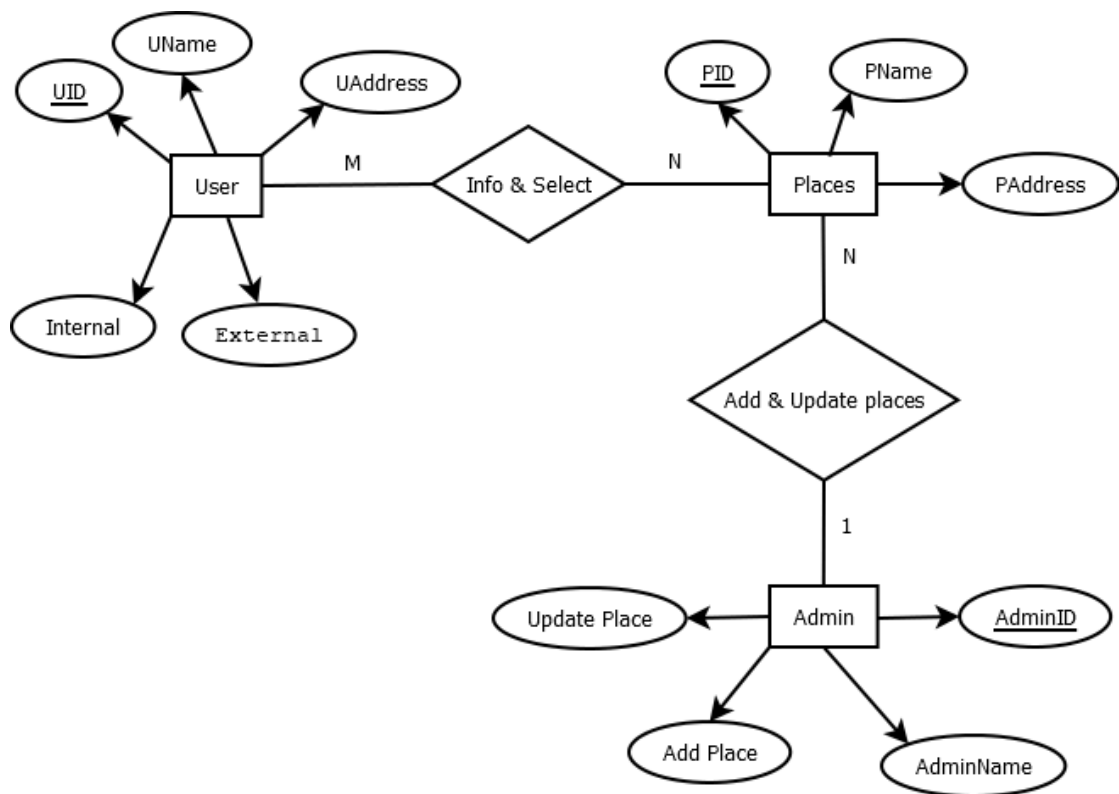


Figure 2: Entity Relationship Diagram (ERD)

## Data Flow Diagram (DFD)

The diagram that allows you to model how data flow through an information system, the relationships among the data flows, and how data come to be stored at specific location is known as DFD. It also shows the process that changes or transforms data. A data flow diagram that represents a system's major processes, data flows, and data stores at a high level of details is called first level DFD. Here, we design the first level DFD.

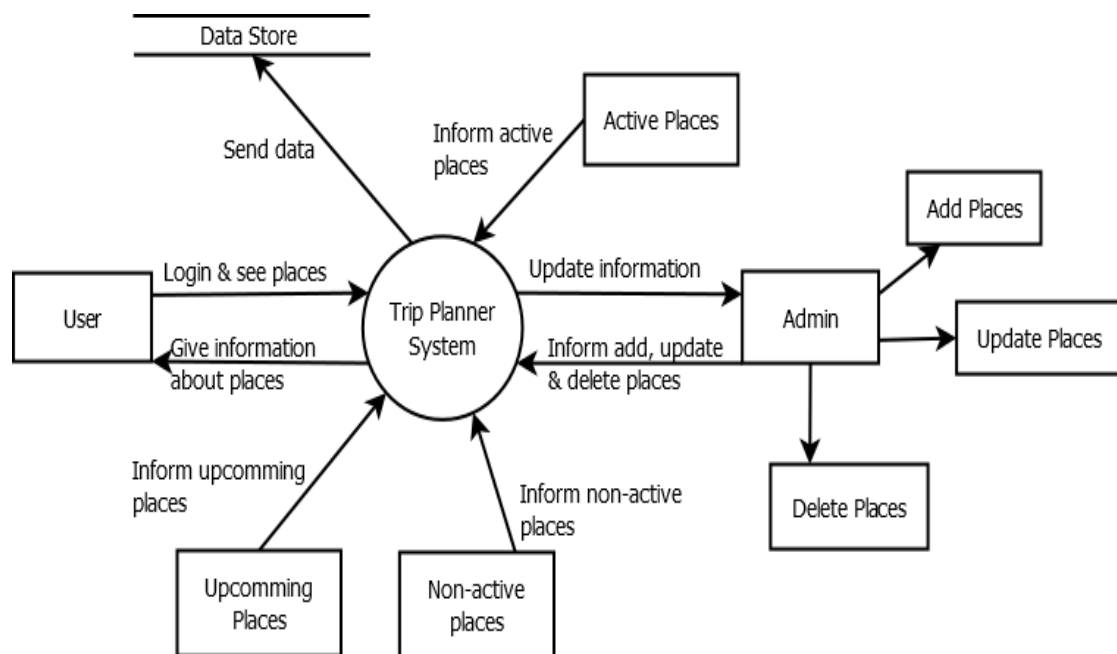


Figure 3: Data Flow Diagram (DFD)

## 5.4 PROGRAM CODING

To code our program, we use a programming language and a sequential database:

Programming language: Visual Programming(vb.net)

Database: SQL database

## **5.5 PROGRAM TESTING**

To test our application, we use WHITE BOX Testing. It is a software testing technique in which internal structure, design and coding of software are tested to verify flow of input-output and to improve design, usability and security. In white box testing, code is visible to testers so it is also called Clear box testing, Open box testing, Transparent box testing, Code-based testing and Glass box testing. In this testing we verify the following things:

- Internal security holes
- Broken or poorly structured paths in the coding processes
- The flow of specific inputs through the code
- Expected output
- The functionality of conditional loops
- Testing of each statement, object, and function on an individual basis[5]

## **5.6 IMPLEMENTATION**

Trip Planner System is based on VB.net programming language. It is desktop application. So, we will implement our project in .vb Extension file.

## **6. DELIVERABLES**

The following deliverables will be made at the end of this project:

- The user can search for the desired travel city and find out the major places to visit in that particular city.
- It also has a filter option where the user can pick the desired place of visit such as entertainment, spiritual, travel, shopping and restaurants.
- A message box is also available for the user to post their messages, which will be delivered to the admin.
- A login page with the username and password is provided only for the application administrators so that they can login in to read the user messages and respond accordingly.
- They are also provided with the permissions to add, update, delete the information visible to the users.

## 7. TIME SCHEDULE

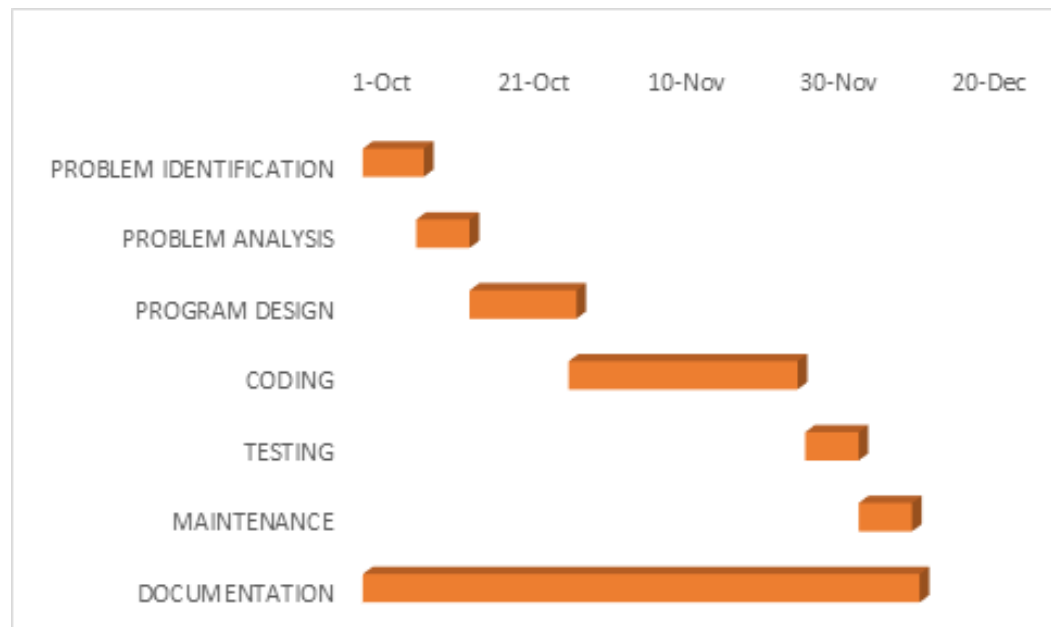


Figure 4: Gant Chart

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