



 slington college
(इस्लिंग्टन कलेज)

Nepal Travel App

Final Year Project

Proposal

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1. Project Title

Nepal Travel App

2. Introduction

Our country Nepal is a beautiful country with lots of places to travel. Both national and international tourists visit different places of our country every year. The tourists visit Nepal for exploring the beautiful landscapes of hills, valleys, lakes and mountains. Nepal is very rich in culture and tradition. The warm hospitality of Nepalese people makes tourists comfortable everywhere they go. The ancient religious sites, cultural sites are also the tourist extractions of Nepal. The major tourism activities in Nepal are: Mountain Climbing, Trekking, Bird Watching, Rafting/Kayaking/Canyoning, Hot Air Ballooning etc. (Affairs, 2019)

According to Nepali Sansar, a renown online news portal of Nepal, "Nepal's travel and tourism sector grew at 3.9 percent, contributing a record USD 8.8 trillion and 319 million jobs to the world economy in 2018." (NepaliSansar, 2019) This data also shows how important tourism industry is for Nepalese economy. Tourism plays a major role in reviving the economy of our country Nepal. The Tourism Board of Nepal has introduced Visit Nepal 2020, a campaign to attract as many tourists as possible to visit Nepal.

a. Problem Scenario

Today, most of the works in various sectors are done using mobile phones. Tourism is that sector which can also be fostered with the help of mobile phones. An app can be made which can assist tourists at the time of their travel when they are visiting our country. I installed such applications but I noticed the suitable app for tourists when they visit Nepal is not available in the market. So, I have decided to make the application which can help tourists in every possible way.

The tourists take tour of the country with the help of guides or with assistance of some people. There can be some independent travelers as well as some internal tourists. The common things that a tourist demands is accommodation, food and a destination. A mobile application can help them to get these demands easily and also can provide other facilities like finding a guide, getting a route, weather forecasting etc. These facilities can make their trip safe, enjoyable and if possible, less expensive. This helps in both fostering tourism of a place and also the well-being of the tourist.

As Visit Nepal 2020 is another big event for tourists to visit Nepal, this app can help in making this event successful.

b. Project as a solution

This mobile application can help both dependent and independent travelers to travel different places of Nepal. The application can recommend the places where they can travel and give the description of that place. The app will also allow the customers to book transportation means such as flights, bus, cabs, cars and book hotels for their stay. The app will use GPS tracking system to allow tourists to look the nearby places to visit and also to show the routes to get into those destinations. In built language translation service will allow tourists to convert the language of the app into their preferred language so that they can easily understand the application.

Furthermore, the app will be made in such a way that it would have the list of guides that the tourists can hire and the application will have features of weather forecasting, delivering news, posting content in the application community (like social media) and a journal section where the tourist can write about the visits they made.

3. Aims and Objectives

a. Aim

The aim of this project is to create a reliable application to help the tourists to travel the country and helping our country and it's people to generate revenue/income by doing so.

b. Objectives

The objectives of this project are:

- To promote tourism industry of Nepal.
- To make an application which generates revenue to Nepalese guides, hotels and tourism destinations of Nepal.
- To assists tourists (both internal and external) travelling Nepal.
- To create a mobile application in 6 months with all the features included.
- To document the details of application and the tasks implemented in its creation in proper manner.

4. Expected Outcomes and Deliverables

After the project is complete, an app is expected which will make tourists easy to travel the different places of Nepal easily. The app would have the features of GPS tracking, flights booking, vehicle hiring, inbuilt language translator, search engine, hotel booking, guide hiring and weather forecasting. The application can also be used as a social media where the tourists can share the pictures and moments with other tourists. The features are listed below:

1. GPS Tracking for tracking location and finding destination.
2. Booking engine to book hotel and flights.
3. Vehicle hiring feature to hire vehicles.
4. Guide hiring Feature
5. Search engine
6. Weather forecasting
7. Language Translation Feature
8. Social Media platform
9. Easy login portal
10. Offline feature
11. Journal Section

5. Project risks, threat and contingency plans

Many **risks and threats** are expected during the development of this system. Some of which are as follows:

- The app might not cover all the tourist destinations of Nepal.
- The app might not be compatible for some users.
- As I am working on an android project for the first time, it can be very difficult to implement all the features.
- The application can be bit costly than expected.
- The application would be better if it would be available in IOS devices.
- The resources on the internet might not be sufficient to complete the project.

The risks shown above can be minimized by the following points which are my **contingency plans**:

- Researching about many tourism destinations of Nepal and adding them to database.
- Trying to complete the project as fast as possible in time.
- Researching about flutter and its different widgets, plugins and shortcuts to ensure the app has all the feature mentioned in the proposal.
- Minimizing the cost by implementing certain strategies.
- Asking the supervisors for help in case resources are unavailable in the internet.
- Convincing many tourism vendors to use the app as well as the tourists visiting Nepal.
- If certain amount of time is available then, the app will be available to IOS devices also.

6. Methodology

For doing this project I use the Rational Unified Process (RUP) methodology. The RUP development methodology provides a structured way for creating software programs. It provides a specific plan for each step of the development process which helps to prevent resources from being wasted and reduces unexpected development costs.

There are four phases in this methodology which are to be implemented as follows:

1. Inception:

- The idea of project was finalized.
- The clients for the project were identified.
- Discussions were made with the supervisors about the development and documentation procedures.
- Resources required for the project are calculated and cost is estimated.

2. Elaboration

- The resources and cost are revaluated and finalized here.
- The proposal is documented.
- The diagrams like wireframes, class diagrams, UML diagrams are made.

3. Project Construction

- The design and development of application has to be undertaken in this phase.
- Then the program has to be tested by black box and white box methods.
- The documentation of project will be done.
- The privacy policy, terms and conditions and user manual will be written.

4. Project Transition

- After the construction of application project will be delivered to clients. In my case to tourists and tourism vendors like hotels, guides etc.
- Their feedback about for making this app can be better will be collected,
- After the feedback is gathered, the analysis of feedback is done.
- Then again, the application is upgraded as well as documentation.

7. Resource Requirements

The basic requirements to complete this project are as follows:

- **Software Requirements**
 1. Flutter
 2. Dart
 3. Visual Studio Code
 4. Few APIs for flight booking
- **Hardware Requirements**
 1. PC with Windows 10
 2. Android phone

8. Work breakdown structure

The figure of work breakdown structure is shown below:

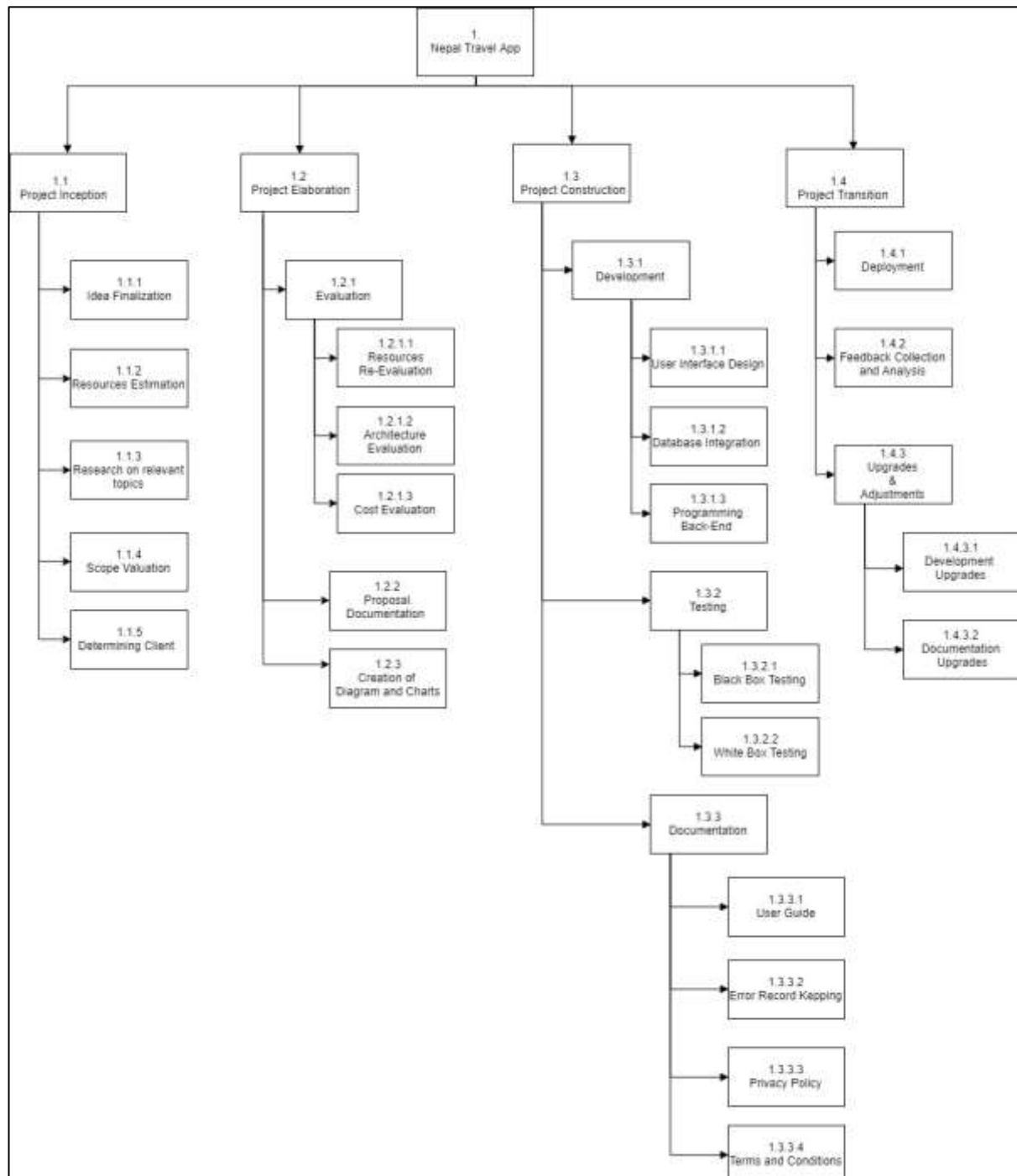


Figure 1. Work Breakdown Structure

9. Milestones

The figure of milestones is shown below:

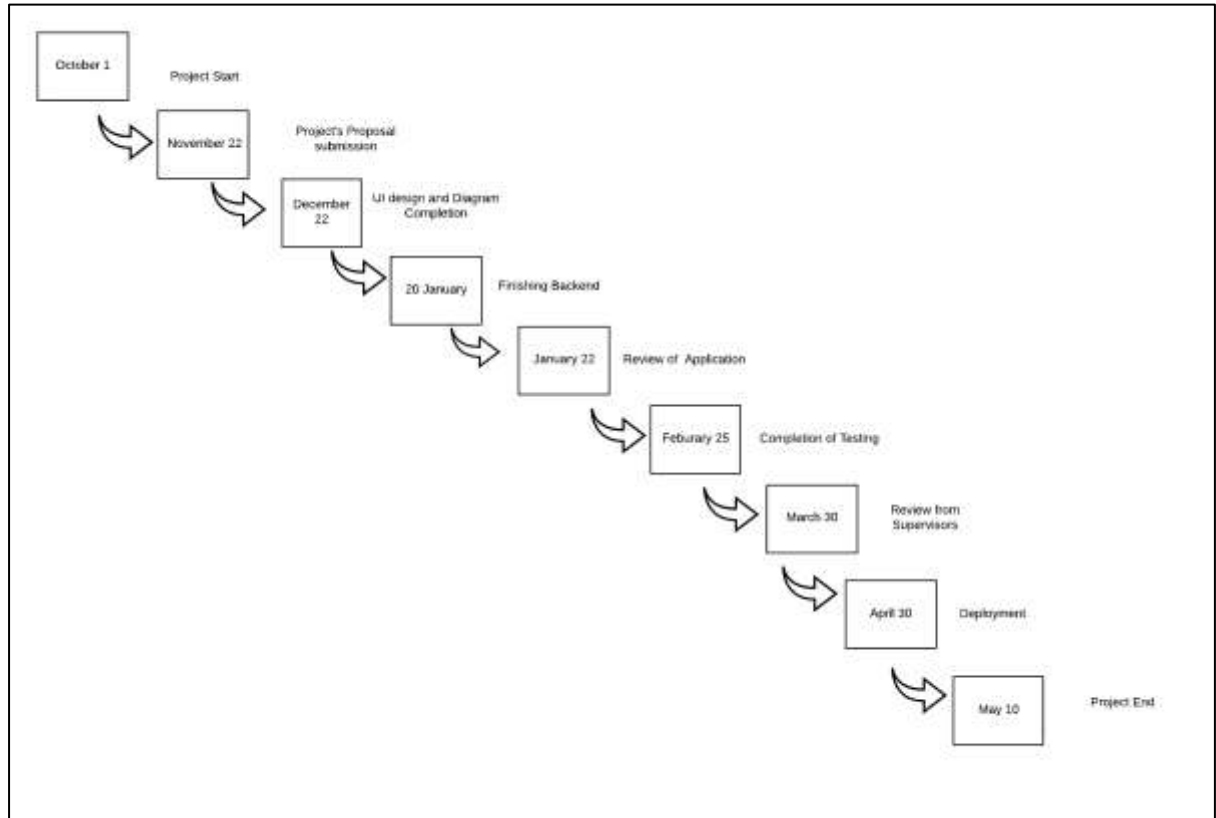


Figure 2. Milestones of the project

10. Gantt-Chart

The figure of Gantt-Chart is shown below:

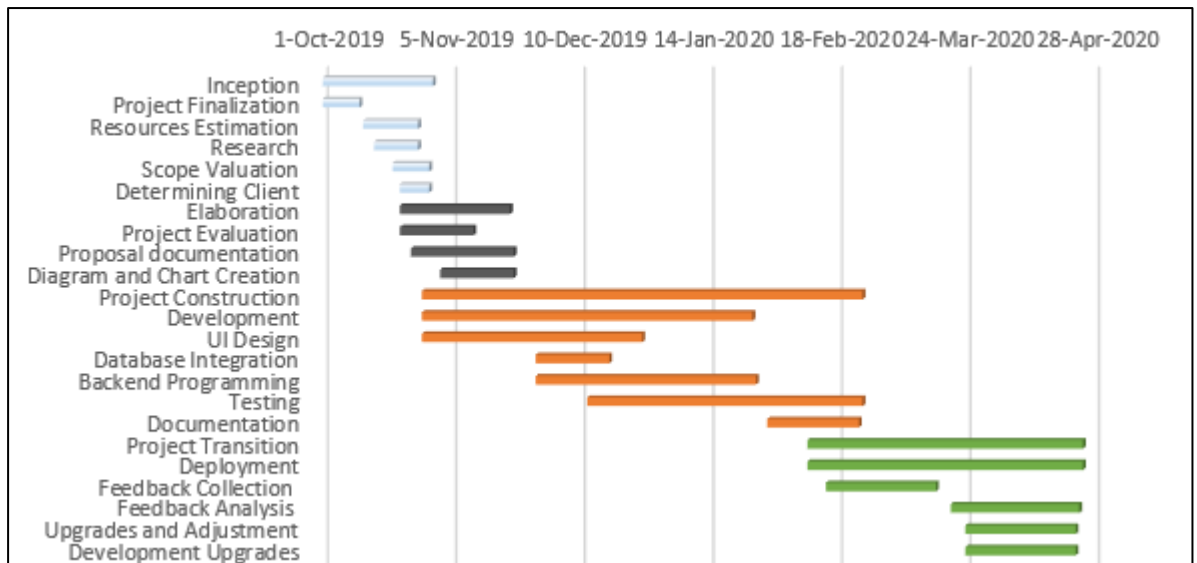


Figure 3. Gantt Chart

11. Conclusion

Our country is one of the beautiful places in the world to travel. Tourism is one of the major contributors to our economy. Keeping this in mind, I thought of an application which can help the tourists to easily find the places where they can go. In addition to that, many features such as the booking engine, recommendations, GPS system, weather forecasting, language translations will be the application of the application.

I want to help in promoting the tourism sector of my country. Therefore, I will do my best for making this application for fulling the aim of promoting tourism industry of my country.

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