



**slington college**  
(इस्लिंग्टन कलेज)

**Module Code & Module Title**  
**CS6P05NI Final Year Project**

**Assessment Weightage & Type**  
**25% FYP Interim Report**

**Semester**  
**2020 Autumn**

**Student Name: Shirshak Shrestha**

**London Met ID: 18029754**

**College ID: NP01CP4A180057**

**Internal Supervisor: Dhurba Sen**

**External Supervisor: Niroj Shankhadev**

**Assignment Due Date: 25<sup>th</sup> December**

**Assignment Submission Date: 25<sup>th</sup> December**

**Word Count : 6368**

*I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked.*

*I am fully aware that late submissions will be treated as non-submission and a mark of zero will be awarded.*

## **Acknowledgement**

The success and final outcome of this project required a whole heap of guidance and assistance from my respective Module teachers and friends. I am extremely privileged to have got this all along the completion of my project. All that I have done is mostly credited to my Supervisors who timely recommended me with their new ideas and suggestions of my every task.

I would like to express my special thanks of gratitude to my FYP Supervisor Mr. Niroj Shankhade who accepted my proposal on project "Visit Myagdi", Supervisors helped me throughout the acceptance of my proposal. Their feedback and suggestions towards my proposal has played a vital role behind the new concepts and ideas about my project.

My thanks and appreciation also goes to my college friends who had encouraged me to complete this project and advised me to make the project even better.

I am thankful and fortunate enough to get constant encouragement, support and guidance from all teaching staff of Computing who helped me in successfully completing this report section. Also, I would like to extend my sincere esteems to our FYP Supervisor Mr. Niroj Shankhade for his timely support.

## **Abstract**

This is an interim report on the topic "Visit Myagdi". Visit Myagdi is a web based application which highlights the possible destinations, trekking routes, cultures and events of Myagdi district. So, it is a community-based project aimed to promote the undiscovered places with its spectacular view into the digital platform. The empirical research on social media and public administration is limited and fails to cover up the local communities which are rich in natural resources. The results add to our understanding of supporting the local community's natural resources across digital platforms and help make information systems a better place for the environment.

## Table of Contents

Section 1: Introduction	1
1.1 Introduction to Subject Matter	2
1.2 Current Scenario	3
1.3 Problem Domain	5
1.4 Problem Solution	5
1.5 Aims and Objectives	6
1.5.1 Aim	6
1.5.2 Objectives	6
1.6 Project Features	6
1.7 Motivational Factor	7
1.8 Introduction to Structure	8
Section 2: Background	9
2.1 Research work (Technology)	9
2.2 Finding of Research	13
2.3 Client Description and Requirements	14
2.3.1 Client Name	14
2.3.2 Client Description	14
2.3.3 Client Requirements	15
Section 3: Development	16
3.1 Considered Methodology	16
3.1.1 Waterfall Methodology	16
3.1.2 Agile methodology	17
3.2 Selected Methodology	18
3.2.1 RUP methodology	18
3.3 Tools and Technologies	20
3.3.1 Tools	20
3.3.2 Technologies	21
3.4 Use Case Diagram	22
3.5 Wireframe	23
3.6 Work breakdown structure	26
3.7 Gantt chart	27
Section 4: Review of Progress	28
4.1 Progress table	28
4.2 Progress Review	29

Section 5: Future Work	30
5.1 Conclusion	30
Bibliography	31
References	32
Appendix 1: Milestone Review	34
Appendix 2: Survey	35
Appendix 3: Development	37

## Table of Figures

Figure 1: Tourism Arrival in Nepal 2010-2019 (Prasain, 2020)	3
Figure 2: Waterfall Model (SDLC - Waterfall Model, 2020)	16
Figure 3: Agile Methodology (Tutorials Point, 2020)	17
Figure 4: RUP Methodology (TestBytes, 2019)	19
Figure 5: Use Case Diagram	22
Figure 6: Home Page	23
Figure 7: Login Page	24
Figure 8: Item Detail Page	24
Figure 9: Sign Up Page	25
Figure 10: Work Breakdown Structure	26
Figure 11: Gantt Chart	27
Figure 12: Survey	38
Figure 13: Narchyang Waterfall	39
Figure 14: Coding of Signup Page	40
Figure 15: Coding of Login Page	40
Figure 16: Coding of Landing Page	41

## Table of Tables

Table 1: Progress Table	28
-------------------------	----

## Section 1: Introduction

Nepal is a country rich in natural resources, heritage, mountain ranges, hills, rivers and so on. Culturally as well as naturally diverse, Nepal has all kinds of landscapes, ranging from narrow terranes, snow capped Himalayas to the plain areas of Terai. “Officially Department of tourism in Nepal was established in 1996 under the act of tourism development and Nepal Tourism Board (NTB)” (Dhakal, 2015). Every year, Nepal sees millions of tourists who come to the country to enjoy its unique sightings, rich heritages and cultures of people. With a history that dates back to centuries, Nepal offers endless opportunities for the tourist to enjoy and get mesmerized with. “In 2019, approximately 1.2 million international tourists visited Nepal. This represented a 2% increase on the numbers in 2018, when 11,73,072 tourists visited Nepal. Major reasons for less increment in tourist arrivals are; shut downs of major international airline (Jet airways), decrease in TIA operation hours due to runway maintenance” (Ministry of Culture, Tourism & Civil Aviation). Among the various regions across country, Myagdi district is one of the popular and has much to offer to the tourist. The district lies tucked between hills and offers a majestic view of Mount Dhaulagiri. It is the gateway to some of the famous travel destinations such as Dhaulagiri Base Camp, Mustang, Ghorepani, Poonhill and many more.

The travel and tourism sector has created jobs, generated prosperity across thousands of Nepalese and increased the living standard of people. It has driven growth for the country and reduced poverty. Tourism contributes highly to uplift the economic standard of people. However, back in the 1990s, the district that had so much to offer suffered from lack of access to proper roadway, accommodation system as well as communication channel to provide to the tourists and travelers. Today, at the age of the internet, while the improved communication and infrastructure has paved the way for better accessibility, still a large part of the area remains untouched and unfamiliar to the outside world.

## 1.1 Introduction to Subject Matter

“In the eyes of global travelers, Nepal is one of the richest countries in the wealth of Himalayan flora and fauna and diversity of wilderness” (Badal, 2020). One of the major destinations for tourism in Nepal is Myagdi District. Cradled in the laps of the Himalayas, Myagdi district in Dhaulagiri zone is one of the most beautiful places in Nepal. Myagdi is an enticing place to visit every time of the year because of the glorious mountain ranges that wind through its scenery, substantial biodiversity, and a rich past. The district headquarters of Myagdi, Beni Bazaar was the trading hub of Tibet and India before the unification of Nepal. Complete with scenic natural beauty and rich cultural diversity, Myagdi is the ideal tourist destination from where one can get a close glimpse of the Himalayas and enjoy the best of what nature has to offer. Number of Annapurna ranges and Dhaulagiri ranges of beautiful peaks can be seen from here. This place is just perfect for people who crave adventure and enjoy mountaineering.

Considering all these facts, for the final year project I have decided to develop a web application. Hence, this project is aimed to address the development of web application “Visit Myagdi” which helps to attract and approach the tourists by the beautiful Himalayas and scenery of this district. This project also contributes towards complete growth and development of a district by numerous economic values and built in place’s brand value, images and identity.



## 1.2 Current Scenario

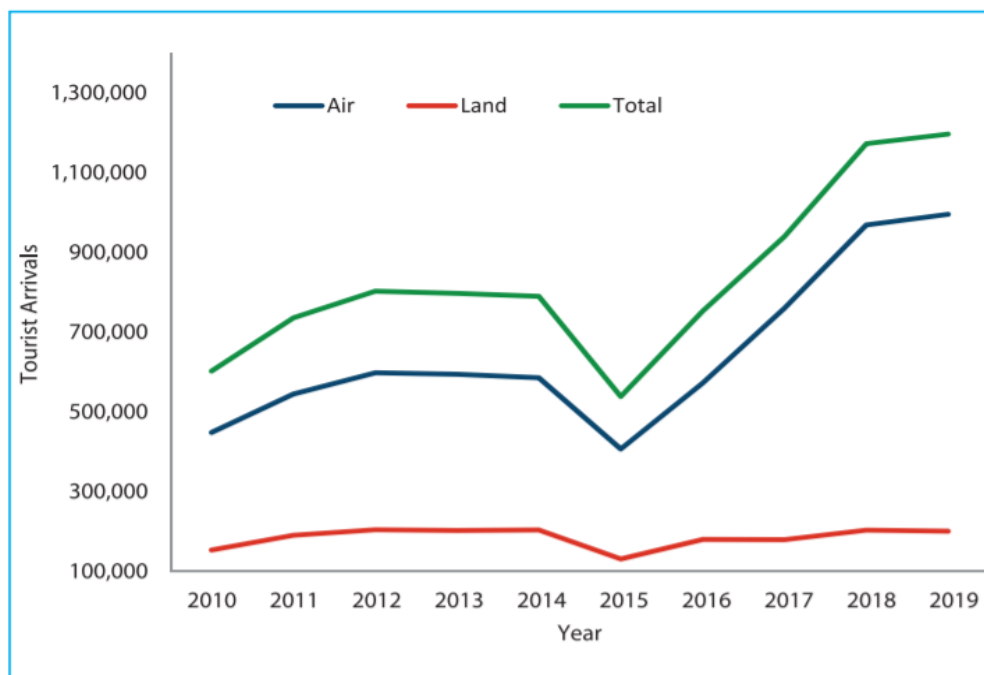


Figure 1: Tourism Arrival in Nepal 2010-2019 (Prasain, 2020)

Nepal is listed as one of the best trekking destinations in the world with thousands of trails and endless mountain views. The main trekking regions of Nepal's are Everest, Annapurna and Langtang which attracts thousands of trekkers every year. 50 percent of the trekkers trek into Annapurna region of the country. Almost 70 thousand trekkers travelled Annapurna circuit in year 2017 (Gautam, 2017). In 2018, the number of registered travel agencies reached up to 3,508 and trekking agencies 2,649 (Tourism industry in Nepal: Make it backbone of economy, 2019). Nepal has offered the best trekking destination in the world with thousands of mountain trails. Myagdi has the seventh highest mountain in the world Mount Dhaulagiri for climbers also known as "White Mountain".

Among the trekking destinations of Annapurna Region, Myagdi has offered Poonhill trek, Ghorepani trek, Annapurna base camp trek, khayer lake trek, Mohare danda trek and so on. All these trekking routes are the famous trekking routes of the Annapurna region. Beside the Annapurna region, Myagdi has Dhaulagiri base camp trek and newly recognized Dhaulagiri Ice fall trek.

Along with all these trekking trails, Myagdi has got tourisms to witness even more Natural and cultural sites like Pulaasram which is the Birth place of Ravan, Galeshwor Dham. "Galeshwor temple stands on the large Chakra-Sila Covering an area of 9 Ropani (4578.48-meter square) near to the holy confluence of Kali Gandaki and Rahu river is considered to be very important in the Religious, historical and mythological point of view" (Travel Massif, 2020). It is also known as the second Pashupatinath. Myagdi area is packed with many holy places, sacred sanctuaries, burial places of great saints, mountains, and rivers. Many of these places and destinations are unknown to the travelers and trekkers, so my project reflects all the possible hidden and discovered places with its spectacular view into the digital platform to ease the traveler for easy accessibility with possible features. Also, helps in complete growth and development with economic value and its identity.

### 1.3 Problem Domain

Almost 70,000 foreign tourists have visited Myagdi in the last fiscal year, which is an increase by 26,000 compared to the previous year. According to the statistics of the district police office and Annapurna Conservation Area Project, a total of 69,816 tourists have visited Annapurna circuit foot trail, Round Dhaulagiri and other tourist destinations of the district in the fiscal year 2016/17. (Gautam, 2017)

- People are unknown about the places and routes of different destinations.
- Extreme change in weather may cause huge effects and ruins all the trekking plans. Without the help of the weather forecast it is really hard to plan for a high-altitude Himalayas trek.
- People are not well-thought-out of hotels and homestays during the travel of their respective destination. It will be hard for people to find the hotels as per their needs and requirements.
- People have to rely on locals' considerations about the fact of time duration on reaching the next destination.
- There are a number of travel apps even visit Nepal apps but most of them fail to bring the charm and beauty of each corner sight of the country. And yet there are no any applications that address the details of exploring myagdi.

### 1.4 Problem Solution

This project will assist people to overcome the above problem statement. This application offers people to browse different trekking routes, destinations and things to do while in this district through the browser. This application provides the user friendly and more interactive UI to people for easy access. Weather forecast and google maps assist travelers for easy, reliable and proper plans. This application provides every possible trekking route along with its itineraries. Displaying the various hotels and restaurants and providing best offers and discounts in time, thus increasing the ratio of customers and attracting customers with competitive prices. This application accommodates every possible solution to ease the traveler for easy accessibility with possible features.

## **1.5 Aims and Objectives**

### **1.5.1 Aim**

The main aim of the project is to create a reliable web application to help the people explore and reach their destination of Myagdi district. This project develops a digital platform which is able to help and enhance Community-based tourism.

### **1.5.2 Objectives**

The objectives of this project are:

- To promote the tourism industry of Myagdi district and Nepal as well.
- To assist people travelling Myagdi.
- To create a web application in 6 months with all required features.
- To make an application which generates revenue to local people of Myagdi through hotels and guides.
- To implement the documental and programming part of this project in a proper format.

## **1.6 Project Features**

After the successful development of the project, the application is expected to ease the people while travelling the different places of Myagdi. The application would have the following features which are listed below:

- An interactive user interface which will help users to understand.
- Users will have all the possible information about Destination and Trekking routes with itinerary.
- Users can google maps of that specific place and look for weather forecasts.
- Users can book for Accommodation as per their own preference.
- Users will have easy transactions through digital wallets rather carrying huge amounts of cash with them.

### **1.7 Motivational Factor**

My mind drew attention on the topic Visit Myagdi. when a group of my people decided for khopra trek. Khopra lies in the Annapurna region of the Myagdi district. It is 4660m above sea level. Most people visit Khopra as per the ritual belief but on the other hand the trek has everything that Nepal has to offer with its beautiful views of Annapurna ranges, rural villages, rhododendron forest and Himalayan wildlife like pheasants and yaks.

So, before we planned our journey we researched about the places, trekking routes, itinerary, home stay. Here I realized our community fails to promote and advertise our local destinations which is no less than any other destinations of Nepal. So, I personally thought to develop the web-based application which highlights the hidden and undiscovered places of the district. Thus this application will accommodate every possible solution to ease the traveler for easy accessibility with possible features. This project also contributes towards complete growth and development of a district by numerous economic values and built-in place's brand value, images and identity.

## **1.8 Introduction to Structure**

The following list shows how the report is structured and organized.

### **Abstract**

This section showcases the overall summary of the report.

### **Introduction**

This section explains the subject matter of the project. It also includes a brief history and development on the specific field. Furthermore, it showcases the problem domain and solution of the problem with the aims and objectives of this project.

### **Background/Context**

This section discusses the background and context of related projects. It also includes the technology used for the development phase of the project.

### **Development**

This section shows all the possible considerations that were made before the development of the project. It also represents the development of the project including the screenshots of codes.

### **Progress**

This section shows the achievements that are made during the development of the project till present date. Based on Gantt chart, it represents the further work of progress.

### **Further Work**

This section includes all the remaining tasks that are needed to be completed in future for the completion of the project.

## Section 2: Background

This project showcases the development of web-based applications to implement Community-based tourism into the digital platform. Here, Clients can easily reach out to the desired destination and can follow up all the possible information regarding that particular place. In the beginning, the landing page of the web app is displayed where it contains all the featured top destinations, trekking routes, events and cultures of my community. The user has easy access on quick search. When the user views any particular places then along with the particular place the nearby places are displayed. Users can only access automation of web actions until they log in into the system. The admin post according to the recent change in requirements like advertisement, discount, addition of new items. This application displays every possible destination and trekking itinerary of this community. Today the digital platform acts as one of the potential marketing tools.

### 2.1 Research work (Technology)

The key scripting language for Web browsers is JavaScript, and modern Web applications require it importantly. Programmers have started to use it for writing complex applications, but during development there is still little tool support available. JavaScript presents a static program analysis infrastructure that can use abstract interpretation to infer informative and sound type details for JavaScript programs. Preliminary studies performed on real-life JavaScript code suggest that the approach to analysis accuracy on small and medium-sized projects, which represent the majority of applications for JavaScript, is promising. With the potential for further development, the study is proposed as a basis for the creation of tools that can support JavaScript programmers.

Some of the important features of JavaScript are listed as below :

1. Cross-browser compatibility is found in JavaScript.
2. JavaScript comes with many modules and frameworks.
3. Speedy to use every particular tool while writing with JavaScript code .
4. Web applications for development simplify the complexity in JavaScript.

There are many JavaScript frameworks which help us to create a web application faster. Some of the popular frameworks of JavaScript are React, Vue and Angular.

React is one of the most popular JavaScript frameworks which helps to build interactive user-interface for web applications. React is a structure that was initially developed and is maintained by Facebook. When selecting it for the project, this offers a huge weight on the scales. It gives React a sense of consistency which is lacking from many new frameworks.

Characteristics of React.js are given below:

- The high adoption volume and continued growth mean that it will be easier to find skilled react developers as well as support external parts.
- 2. The adoption of JSX enables the structuring of components that will then compile into JS React, which can render more SEO-friendly web pages than other JS frameworks while running on the server, as the only thing seen by the client at that stage is the Created page with HTML (s).
- 3. React Native can have an almost seamless mobile experience that can be combined with your response to the web request.

Angular.js is another strong application. It uses TypeScript, which is a JavaScript superset that can be compiled into Vanilla JS. It is full of characteristics such as injection of dependency, templates, forms and more.

Characteristics of Angular.js are given below:

- Pre-rendering of server content will allow better SEO and faster browsing.
- From Angular to Angular 2 and far beyond, the Angular project is based on years of experience.
- Angular 2 is full of useful features like injection of dependency, templates, types, and more.
- 4. Users should be assured that it will be around and used for a long time since Angular is maintained by Google.



Vue.js is rising to maturity, but is still looked at in the JavaScript application scene as a new player. It uses a template syntax based on HTML, allowing us to quickly and easily write components.

Characteristics of the Vue.js are given below:

- Vue has an extremely small file size, without causing a slowdown, making it easy to use in projects.
- Vue has a comparatively simpler learning curve to support those new to JS frameworks and veterans alike than some of the larger frameworks, and excellent documentation.
- Integration into other applications and languages is easy. For instance, in order to build frontends for Laravel applications, Vue.js bundles with Laravel and couples nicely with it (Smith, 2018).

ASP.NET or Node.js may be preferred as a backend for my project. ASP.NET is one of Microsoft's most popular framework creation frameworks for web applications. ASP.NET is a powerful solution for creating amazing applications, combined with application tracking and other performance resources, such as a profiler (WATSON, 2017). For databases, ASP.NET uses SQL Server, Oracle, and MySQL.

Following are the features of Node.js:

- Cross-Platform and support for containers
- High Performance
- Asynchronous via async/await
- Unified MVC and Web API frameworks

Node.js is a server-side framework that builds on the JavaScript runtime of Chrome to quickly create fast and scalable network apps. Node.js uses an event-driven, non-blocking I/O model that allows real-time applications that run across distributed devices light and powerful, perfect or data-intensive (Node.js Introduction, 2020). When Node.js is used as a backend language, we can use MongoDB (NoSQL database) for the database.

Following are the features of Node.js:

- Asynchronous and Event driven
- Very Fast
- Single Threaded but Highly Scalable
- No Buffering

## 2.2 Finding of Research

From the research I have found that JavaScript will be the best programming language for both the front end and back-end of my project because of its features like cross browser compatibility. It also has huge libraries. In comparison to React.js , Angular.js and Vue.js I find React.js more suitable for my projects because of its easiness to learn and its new leading features than others. Between Asp.net and Node.js, I have chosen Node.js because it is faster than Asp.net and has no buffering.

From the different literature reviews and research, I found that travel and trek applications are one of the major and beneficial factors for travelers because such applications provide all the help lines for travelers like location, bookings, accommodations, explore local experiences and many more. People get more updated with weather and help them to decide when to explore that place. According to a google survey it is stated that about 66% people travel the places after watching the real view pictures and videos. Therefore such applications are platforms that have the most attractive offers like simple transactions with digital wallets, powerful marketing tools to promote community and business. Everything under one roof provides every travel needs.

## **2.3 Client Description and Requirements**

### **2.3.1 Client Name**

Annapurna Rural Municipality

### **2.3.2 Client Description**

The client for my project is Annapurna Rural Municipality , which is one of the Rural Municipality among the sixth including (Dhaulagiri Rural Municipality, Mangala Rural Municipality, Malika Rural Municipality, Raghuganga Rural Municipality). However, I did a survey of my project in Narchyang village and did a field visit to acknowledge the environment, promotion and advertisement done to attract tourism in this community. So, as per the procedure I visited the Annapurna Rural Municipality and talked about my project to highlight the beautiful destinations, cultures, histories and events in the web application. However, my project is about accommodating all the possible destinations among the Myagdi district and advertising on digital platforms. So it is hard to survey each and every destination of this community hence, I decided to visit Annapurna rural municipality and talk about the current scenario and afterward project for the development of the tourism industry in narchyang along with every possible place of Myagdi District.

Annapurna Rural Municipality found my project very interactive, useful and feasible therefore they accepted the proposal of my project and suggested the necessary requirements to implement in my web application.

### **2.3.3 Client Requirements**

The following are the client requirements that need to implement in my project:

#### **Automate website Actions**

The website integrates tools such as Google maps, GPS, email service and digital wallets, weather forecasting etc. to give better website experience to the users. This will save the time and effort of the users as the website will provide useful information or help with the location, bookings and weather forecast with just a couple of clicks.

#### **Secure**

The payment through digital platforms has made more comfort and easy access to the travelers by digital wallets rather carrying huge amounts of cash.

#### **Market**

World is unknown about the beautiful greeneries and highest peaks of this community. Similar to the online travel application, social media channels can be used for the digital marketing of travel apps.

#### **Cost effective**

The system should be cost-efficient as the cost is one of the important factors that rural municipalities would consider.

#### **Accessibility**

Since the area is one of the rural places of Nepal. So, the monitoring system should be accessible from a remote place through the internet. The alert message should also be forwarded to the webpage.

## Section 3: Development

### 3.1 Considered Methodology

#### 3.1.1 Waterfall Methodology

Waterfall model is one of the oldest software development life cycles that creates a system with linear and sequential approach. As the Waterfall Model illustrates the software development process in a linear sequential flow (Sharma, 2016). It is called a waterfall because it develops the system from one stage to another in a downward direction. Without the completion of one stage, we cannot move to another stage which results delay to project as one stage is not completed.

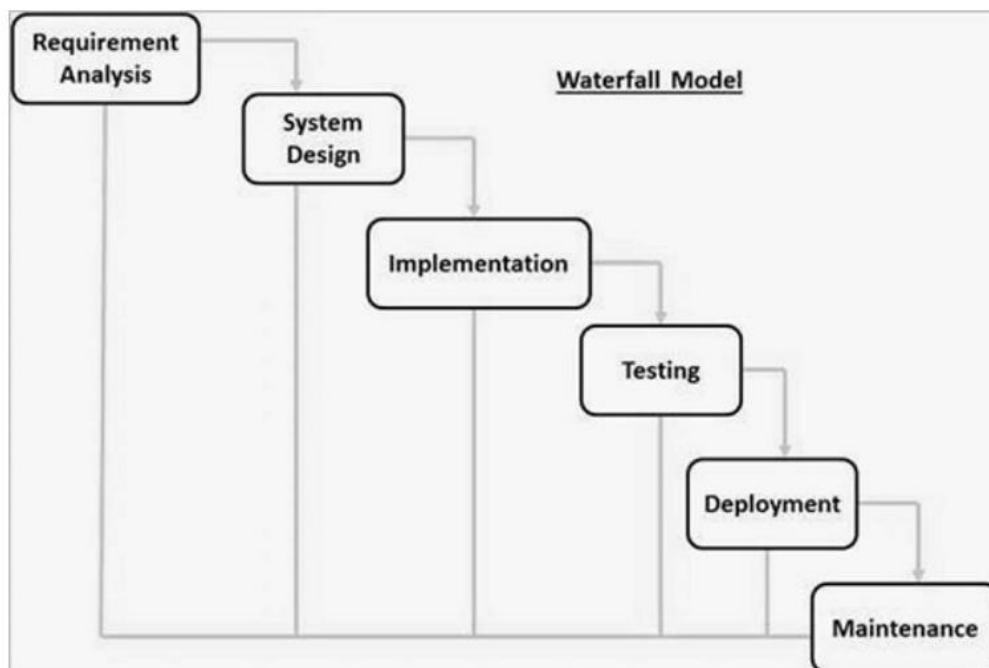


Figure 2: Waterfall Model (SDLC - Waterfall Model, 2020)

#### Reason for not choosing Waterfall

This methodology requires all the requirements at the very beginning of the project which is not possible for real life projects and it does not fit for complex and object-oriented projects so it is not suitable for my project.

### 3.1.2 Agile methodology

“Agile SDLC model is a combination of iteration and incremental process models with focus on process adaptability and customer satisfaction by rapid delivery of working software products” (Tutorials Point, 2020). The output is divided into small sequential constructions by Agile Techniques. These structures are described in iterations. Usually, each iteration lasts from about one to three weeks. Each iteration requires cross-functional teams operating in multiple fields simultaneously.

The principle of agile software development proposes that “at regular intervals, the team reflects on how to become more effective, then tunes and adjusts its behavior accordingly” (Gaurav Kumar, 2012). In itself agile involves multiple methodologies. Peoples mostly adopt Agile Methodology because of its organized framework and faster access to market.

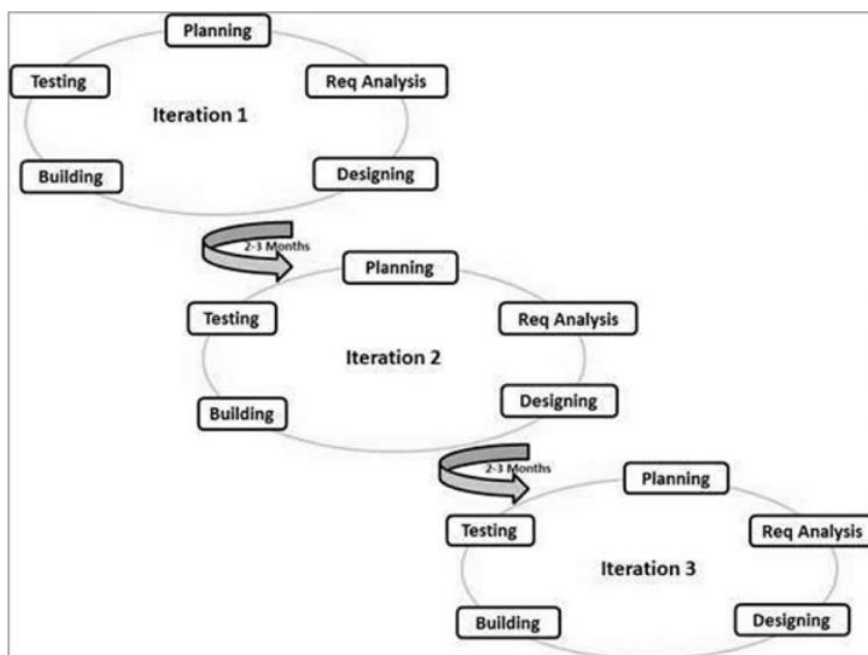


Figure 3: Agile Methodology (Tutorials Point, 2020)

### **Reason for not choosing Agile**

In this project we have a strict period of time and we need to produce good quality software which meets all the specified requirements so through agile methodology it's difficult to manage so I have not chosen this methodology. Another major disadvantage on Agile methodology is of the limited documentation.

## **3.2 Selected Methodology**

### **3.2.1 RUP methodology**

RUP is a software development process from Rational, a division of IBM. It is a process product. The main goal of RUP is to ensure the production of high-quality software that meets the needs of its end-users, within a predictable schedule and budget. RUP works in an iterative way which means it performs different iterations. And at each iteration, four of the iterations perform. The four phases of RUP are Inception, Elaboration, Project Construction and Project Transition.

#### **1. Inception**

In this phase of methodology, discussions are made with the supervisors about the development and documentation procedures. And resources required for the project are calculated and cost is estimated.

#### **2. Elaboration**

In this phase, diagrams like wireframes, class diagrams, UML diagrams are made. And the resources and cost are revaluated and finalized.

#### **3. 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 privacy policy, terms and conditions and user manual will be written and the documentation of the project will be done.



#### 4. Transition

After the construction of the application project will be delivered to clients. Here, the client's feedback is acceptable and applicable. Then the application must be upgraded and documented.

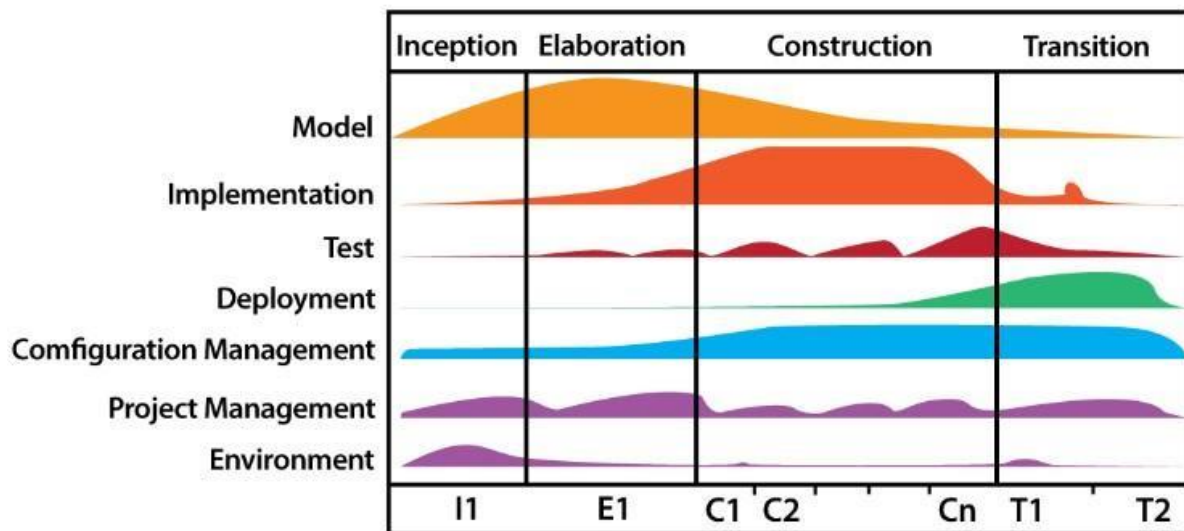


Figure 4: RUP Methodology (TestBytes, 2019)

#### Reason for Choosing RUP Methodology

The development process can be done back and forth. And end user have the accessibility of giving constant feedback. This model focuses on the product of the software itself and its quality. The four different phases of the RUP model have iterations that are meant to produce a demonstrable part of software.

### **3.3 Tools and Technologies**

#### **3.3.1 Tools**

The following are the tools used for this project:

##### **Draw.io**

Draw.io is free diagram software to make flowcharts, ER diagrams, Gantt charts and network diagrams (Draw.io, 2020). Draw.io used to create a use case diagram and activity diagram in this project.

##### **Visual Studio Code**

Visual Studio Code is source-code editor which redefines and optimizes for building and debugging web and cloud applications (Visual studio code, 2020). Visual studio is the powerful source code editor used for coding in both the frontend as well as backend part of the project.

##### **Google Chrome**

Google chrome is a web-browser developed by google. It is used to run web applications developed in this project.

##### **Microsoft Word**

Microsoft word is a popular word processing software used for the documentation of any written format.

##### **Visio**

Visio is the Microsoft software that helps to draw ERD, flowcharts, data flow diagrams and many more.

##### **Adobe XD**

Adobe XD is used to design that look and feel like the real thing. It is used to make wireframe, prototypes, collaborate and many more. It is a UI/UX design tool.

### 3.3.2 Technologies

The following are the technologies used for this project:

1. **JavaScript** as the core language of this project. Due to its easy DOM manipulation and cross platform app development support, I have chosen this language.
2. **React** as the front-end framework for this project because building user interfaces is easier in React and has many helpful libraries.
3. **MongoDB** it as the database for this project because it used JavaScript instead of Procedures and provides high performance.
4. **Node.js** is the back-end for this project because it is super-fast and all api's of Node.js library are asynchronous.
5. **CSS** describes the presentation of web pages including colors, layouts and fonts.
6. **Bootstrap 5** as a UI framework for React.

### 3.4 Use Case Diagram

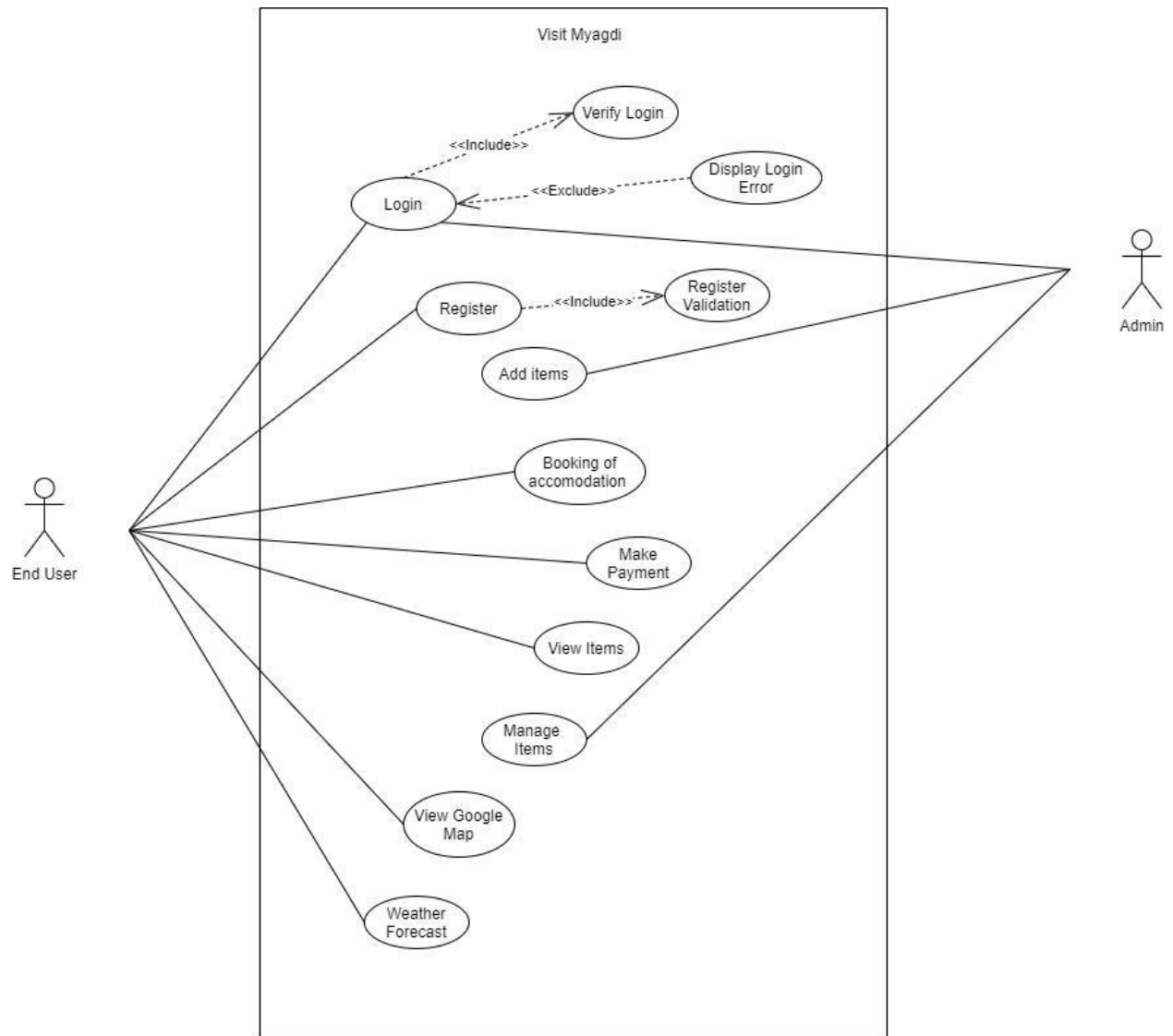
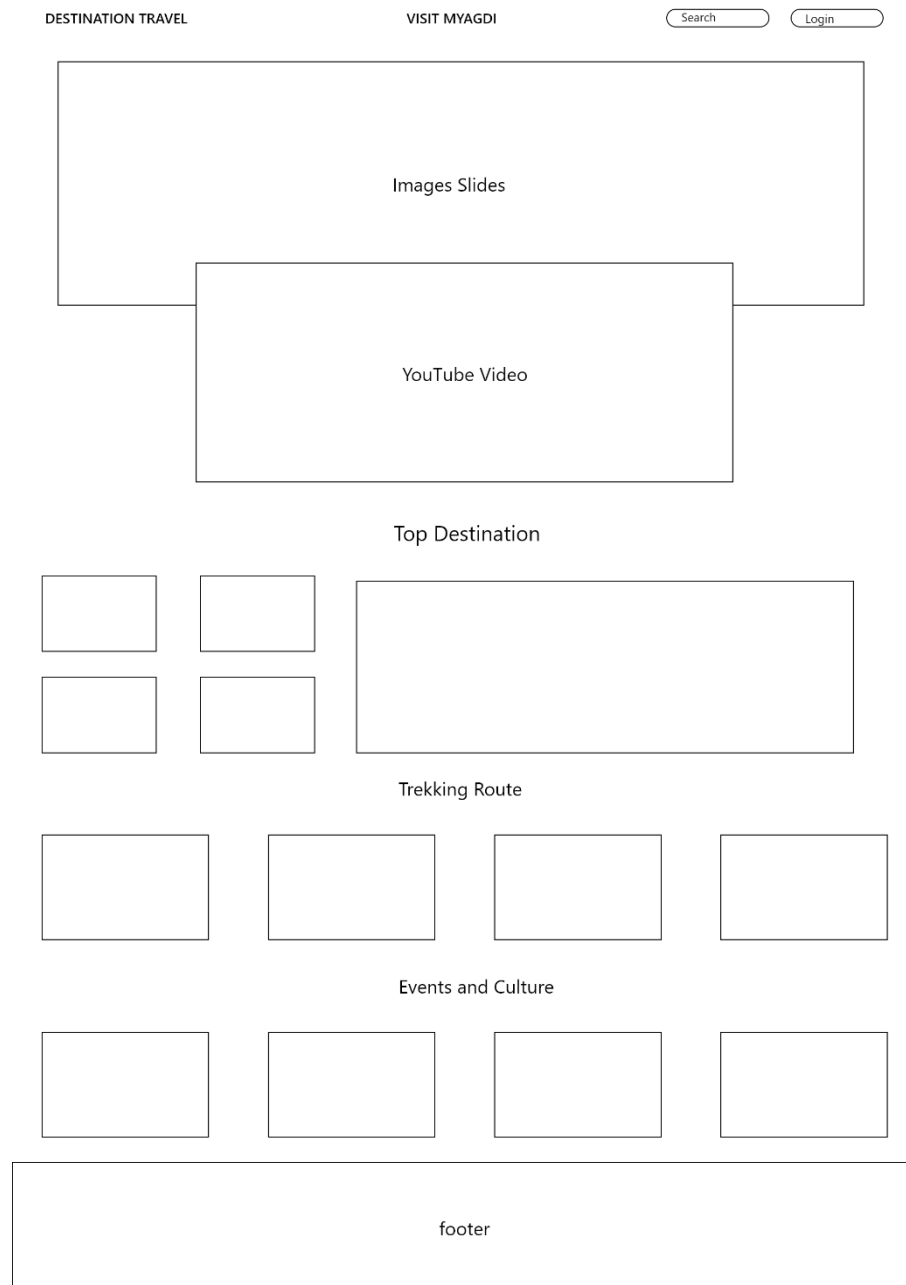


Figure 5: Use Case Diagram

### 3.5 Wireframe

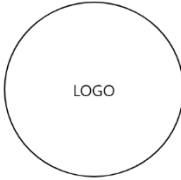
#### 1. Home Page



*Figure 6: Home Page*

## 2. Login Page

VISIT MYAGDI



Username

Password

[Forget Password?](#)

Login

*Figure 7: Login Page*

## 3. Item Detail Page

VISIT MYAGDI

Post title



description of post

*Figure 8: Item Detail Page*

#### 4. Sign Up Page

VISIT MYAGDI

### Create Account

<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

*Figure 9: Sign Up Page*

### 3.6 Work breakdown structure

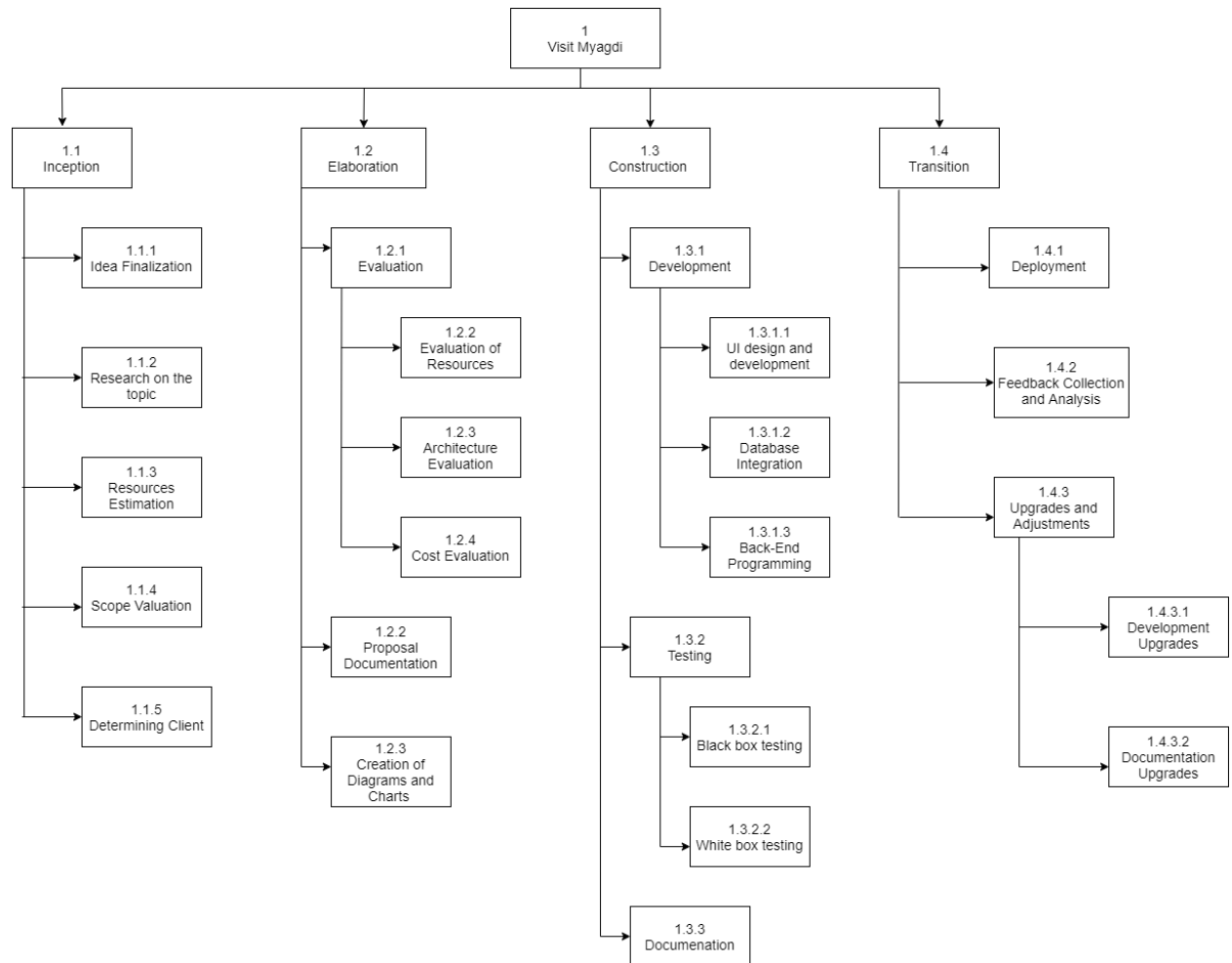


Figure 10: Work Breakdown Structure



### 3.7 Gantt chart

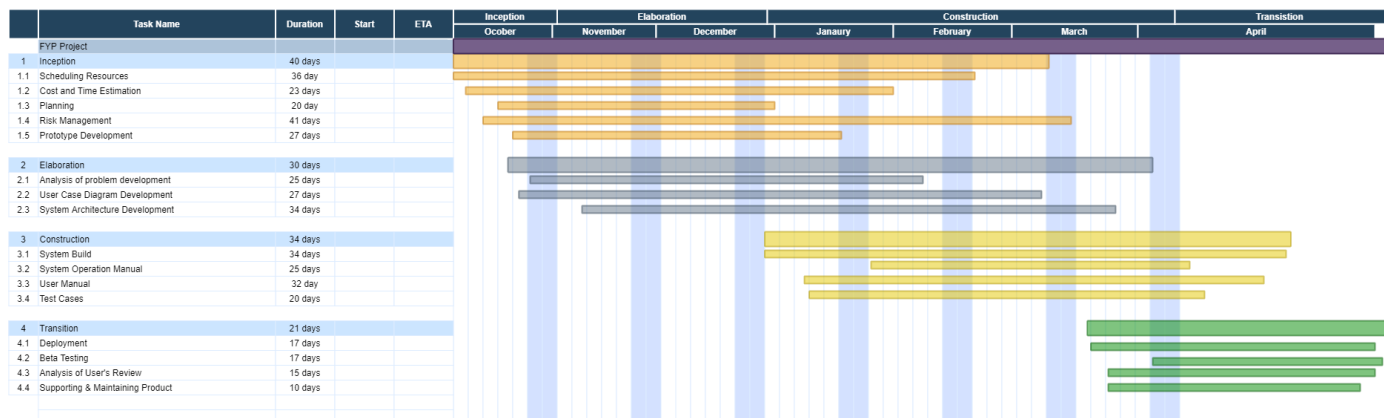


Figure 11: Gantt Chart

According to the Gantt chart, a prototype of my project has to be started but it could not happen. However, the development phase of coding has been started and Landing page, signup page, login page has been completed and CSS has to be implemented to design and style these pages. The reason behind the delay in my Final Year Project is due to regular Internship and college coursework. I assure you to give my best effort and time to my project and complete it in required time.

## Section 4: Review of Progress

### 4.1 Progress table

SN	Tasks	Status	Progress %
1	Topic Selection	Completed	100%
2	Feasibility Study	Completed	100%
3	Cost Estimation	Completed	100%
4	Research on Similar projects	Completed	100%
5	Technical Research	Completed	100%
6	Finalize Proposal	Completed	100%
7	Conduct Survey	Completed	100%
8	Selection of Client	Completed	100%
9	Gather Initial Requirements	Completed	100%
10	Finalize Interim Report	Completed	100%
11	Use Case Diagram	Completed	100%
12	Wireframes	Partially Completed	50%
13	UI Development	Not Completed	0%
14	Database Design	Not Completed	0%
15	Development of System	Not Completed	0%
16	Testing Cases	Not Completed	0%
17	Deployment	Not Completed	0%
18	Review and Refinement	Not Completed	0%
19	Final FYP	Not Completed	0%

*Table 1: Progress Table*

## **4.2 Progress Review**

In the initial phase, the process of topic selection and feasibility study was carried out for making sure if the topic is viable or not. The survey was conducted and collected the requirements as per the client. After the conduction of Survey, it helped to add the possible necessary ideas, features and its usability to add on my project. so, after the detailed analysis, RUP methodology is chosen for the development of the project. Gantt chart and work breakdown structure are made for the ease of carrying out the development work. However, as per the Gantt chart I am delayed in completion of the prototype while in the development phase I have completed the initial part of coding like Landing page, Login page and Signup page but yet to use CSS components to design and style these pages.

## Section 5: Future Work

The following are the future tasks that need to be done:

1. Creating an Admin panel with delete update and edit features.
2. Creating a Destination dashboard where users can look at all the famous destinations.
3. Creating a hotel and homestays dashboard where users can view all the hotels and homestays according to their requirement.
4. Creating online booking and payment systems for hotels and homestays.
5. Integrating google map API and weather API in system.

### 5.1 Conclusion

Tourism is one of the mainstay of Nepalese economy. It is also a major source of foreign exchange and revenue. Nepal itself is a very small yet very beautiful country. Despite the known fact of the country of MT Everest, Birthplace of Gautam Buddha and various Natural Heritage sites, we lack to bring each and every corner of our country to showcase the local beauty and tradition. Cradled in the laps of the Himalayas, Myagdi district is an enticing place to visit every time of the year because of the glorious mountain ranges that wind through its scenery, substantial biodiversity, and a rich past

Therefore I personally decided to uplift the beauty of my own district showcasing various destinations, trekking paths, cultures, traditions and events. I insist people to come and revel in the untouched, undiscovered and uncover yourself with the spectacular scenario of Myagdi. Hence, this project is aimed to address the development of web application "Visit Myagdi" which helps to attract and approach the tourists by the beautiful Himalayas and scenery of this district. This project also contributes towards complete growth and development of a district by numerous economic value and built-in place's brand value, images and identity. This place is just perfect for people who crave adventure and enjoy mountaineering.

## Bibliography

- Badal, B. P. (2020). Tourism: Visit Nepal 2020. *Research Nepal Journal of Development Studies*.
- BAJAJ, A. (2019, April 23). *Travel & Tourism Web Applications – How to make them Successful?* Retrieved from Signity: <https://www.signitysolutions.com/blog/travel-tourism-web-apps/>
- CharanjeetNarang. (2019). Tour And Travel Final Project Report. *IDOC PUB*.
- Dhakal, R. (2015). Overview of Tourism Development prospects in Nepal. *Laurea*.
- Draw.io. (2020). *draw.io*. Retrieved from draw.io: <https://drawio-app.com/>
- Gaurav Kumar, P. K. (2012). Impact of Agile Methodology on Software. *IJCTEE (International Journal of Computer Technology and Electronics Engineering)*.
- Gautam, H. K. (2017). My Republica. *Myagdi Rise in Tourist footfalls*.  
<https://drawio-app.com/>. (2020). *draw.io*. Retrieved from draw.io: <https://drawio-app.com/>
- Lama, S. P. (2019). Towards a Digital Platform to Support/Enhance Community-based Tourism in Developing Countries - Findings from Nepal. *Research Gate*.
- Ministry of Culture, Tourism & Civil Aviation. (n.d.). NEPAL TOURISM STATISTICS 2019. *Government of Nepal*.
- MT. DHAULAGIRI EXPEDITION . (2020). Retrieved from Seven Summit Treks: <https://www.sevensummittreks.com/trip/dhaulagiri-expedition>
- Node.js Introduction. (2020). Retrieved from Tutorials Point: [https://www.tutorialspoint.com/nodejs/nodejs\\_introduction.htm](https://www.tutorialspoint.com/nodejs/nodejs_introduction.htm)
- Prasain, S. (2020). Tourist arrivals slowed significantly in 2019, raising concerns for Visit Nepal 2020. *Kathmandu Post*.
- TestBytes. (2019, May 2). *What is Rational Unified Process Methodology*. Retrieved from TestBytes: <https://www.testbytes.net/blog/rational-unified-process/>
- Visual studio code. (2020). *Visual studio code*. Retrieved from Visual studio code: <https://code.visualstudio.com/>

## References

- Badal, B. P. (2020). Tourism: Visit Nepal 2020. *Research Nepal Journal of Development Studies*.
- BAJAJ, A. (2019, April 23). *Signity*. Retrieved from Travel & Tourism Web Applications – How to make them Successful?: <https://www.signitysolutions.com/blog/travel-tourism-web-apps/>
- CharanjeetNarang. (2019). Tour And Travel Final Project Report. *IDOC PUB*.
- Dhakal, R. (2015). Overview of Tourism Development prospects in Nepal. *Laurea*.
- Gaurav Kumar, P. K. (2012). Impact of Agile Methodology on Software. *IJCTEE (International Journal of Computer Technology and Electronics Engineering)*.
- Gautam, H. K. (2017). My Republica. *Myagdi Rise in Tourist footfalls*.
- Jackluter. (2017, Sep 11). *Benefits of Having a Mobile Apps for Your Travel or Tourism Business*. Retrieved from Medium: <https://medium.com/@jackluter/benefits-of-having-a-mobile-apps-for-your-travel-or-tourism-business-cc4c49c04e0a#:~:text=Travel%20applications%20provide%20you%20all,the%20updates%20provided%20on%20weather.>
- Lama, S. P. (2019). Towards a Digital Platform to Support/Enhance Community-based Tourism in Developing Countries - Findings from Nepal. *Research Gate*.
- Ministry of Culture, Tourism & Civil Aviation. (n.d.). NEPAL TOURISM STATISTICS 2019. *Government of Nepal*.
- MT. DHAULAGIRI EXPEDITION . (2020). Retrieved from Seven Summit Treks: <https://www.sevensummittreks.com/trip/dhaulagiri-expedition>
- Prasain, S. (2020). Tourist arrivals slowed significantly in 2019, raising concerns for Visit Nepal 2020. *Kathmandu Post*.
- Saayman, A. G. (2018). Community-based tourism development model and community participation. *Research Gate*.

- Smith, J. (2018, JULY 18). *9 Popular JavaScript frameworks to consider*. Retrieved from RAYGUN: <https://raygun.com/blog/popular-javascript-frameworks/>
- Tourism Government Nepal*. (2019). Retrieved from Nepal Tourism Facts 2019: <https://www.tourism.gov.np//files/statistics/21.pdf>
- Tourism industry in Nepal: Make it backbone of economy. (2019). *The Himalayan Times*.
- Travel Massif. (2020). *Pulastya Pulhashram And Galeshwor Dham Info*. Retrieved from Travel Massif: <https://travelmassif.com/pulastya-pulhashram-galeshwor/>
- Tutorials Point. (2020). *SDLC -Agile Model*. Retrieved from Tutorials Point: [https://www.tutorialspoint.com/sdlc/sdlc\\_agile\\_model.htm](https://www.tutorialspoint.com/sdlc/sdlc_agile_model.htm)
- WATSON, M. (2017, OCTOBER 31). *ASP.NET Core Features You Need to Know*. Retrieved from Stackify: <https://stackify.com/asp-net-core-features/>

## **Appendix 1: Milestone Review**

### **Milestone 1: Topic Selection**

Status: Completed

### **Milestone 2: Proposal submission**

Status: Completed

### **Milestone 3: UI design and diagram completion**

Status: Ongoing

### **Milestone 4: Coding**

Status: Ongoing

### **Milestone 5: Testing**

Status: Not completed

### **Milestone 6: Deployment**

Status: Not completed

### **Milestone 7: Taking feedback from User**

Status: Not completed

### **Milestone 8: Project Submission**

Status: Not Completed



## Appendix 2: Survey

I did survey of my project in Narchyang village and did filed visit to acknowledge the environment, promotion and advertisement done to attract the tourism in this community

After the survey, I came to acknowledge personally about the Narchyang Village and many destination sites of Annapurna Rural Municipality like Poonhill, Ghorepani, Mohare Dada, khayer lake and many more. Mentioned places are the one of the most trekking routes in this community. Looking at the current scenario based on digital platforms, the community lacks behind to bring such names into the digital world. The first platform is the digital platform like websites, social media that people look for before visiting that specific place. So, by viewing the real pictures and videos people get their eye on it and add on their bucket list. Therefore travel applications are one of the major and beneficial factors for travelers because such applications provide all the help lines for travelers like location, bookings, accomodations, weather forecast, easy transaction, explore local experiences, itineraries and many more.

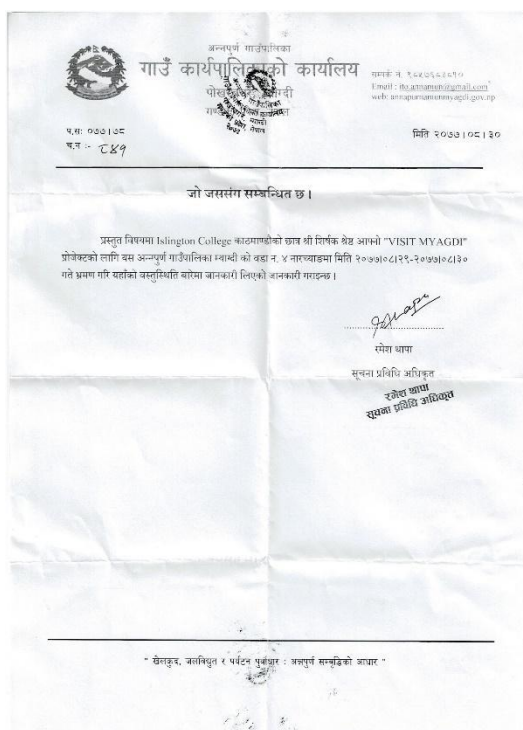


Figure 12: Survey



*Figure 13: Narchyang Waterfall*

## Appendix 3: Development

## 1. Coding of Signup Page

[illegible]

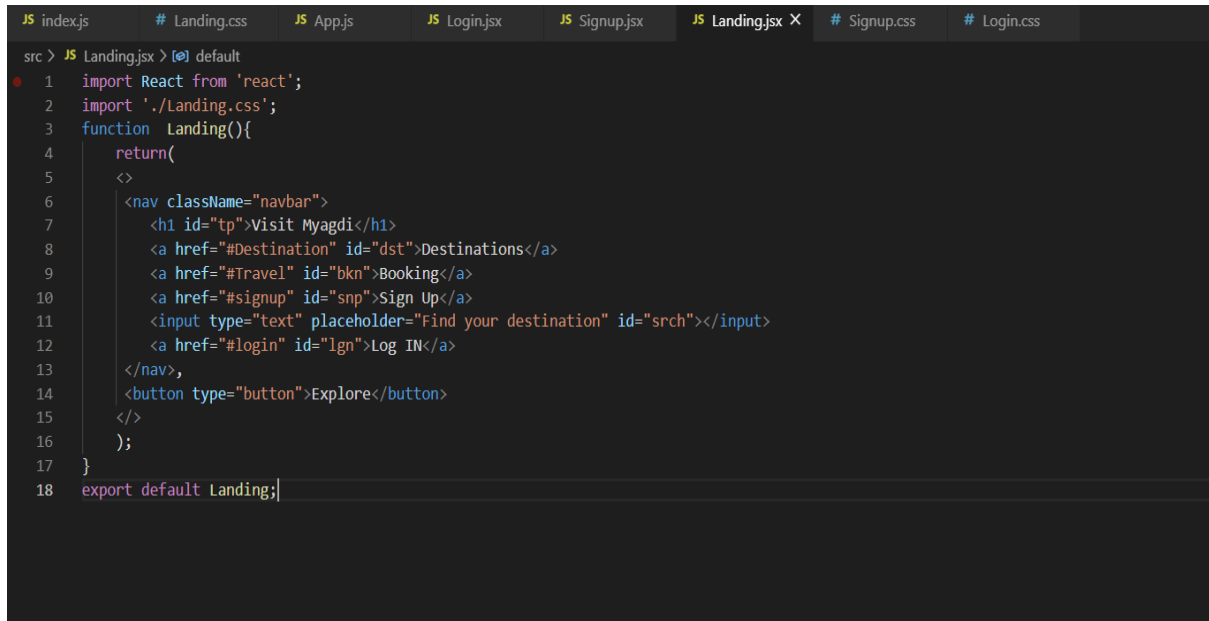
Figure 14: Coding of Signup Page

## 2. Coding of Login Page

```
JS index.js # Landing.css JS App.js JS Login.jsx X JS Signup.jsx JS Landing.jsx # Signup.css # Login.css
src > JS Login.jsx > @ default
1 import React from 'react';
2 import ReactDOM from 'react-dom';
3 import './Login.css';
4 function Login(){
5     return(
6         <div className="log">
7             <h1>Log In</h1><br/><br/>
8             <input type="text" name="username" placeholder="Username" id="uname" required/><br/><br/>
9             <input type="password" name="password" placeholder="Password" id="psd" required/><br/><br/>
10            <input type="submit" value="Login" id="lgbtn"/><br/><br/>
11            <a href="#forgotpswd">Forgot password ?</a>
12            <a href="#signup" >Sign Up</a>
13        </div>
14    )
15 }
16 export default Login;
```

Figure 15: Coding of Login Page

### 3. Coding of Landing Page



The screenshot shows a code editor with several tabs at the top: index.js, Landing.css, App.js, Login.jsx, Signup.jsx, Landing.jsx (active), Signup.css, and Login.css. The active tab, Landing.jsx, contains the following code:

```
src > JS Landing.jsx > [0] default
1 import React from 'react';
2 import './Landing.css';
3 function Landing(){
4   return(
5     <>
6       <nav className="navbar">
7         <h1 id="tp">Visit Myagdi</h1>
8         <a href="#Destination" id="dst">Destinations</a>
9         <a href="#Travel" id="bkn">Booking</a>
10        <a href="#signup" id="snp">Sign Up</a>
11        <input type="text" placeholder="Find your destination" id="srch"></input>
12        <a href="#login" id="lgn">Log IN</a>
13      </nav>,
14      <button type="button">Explore</button>
15    </>
16  );
17 }
18 export default Landing;
```

Figure 16: Coding of Landing Page