LONDON METROPOLITAN UNIVERSITY

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Final Year Project

CS6PO5

Proposal (Venue Booking System-Web Application)

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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.

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1. Introduction

It is a known fact that Nepal is an amalgam of more than 60 ethnic groups, and therefore Nepalese have a lot of extravagant festivals and celebrations connected to the diverse religion, tradition and social events. In recent years, however, this culture of celebration can be seen growing to a point where we can say that Nepalese have started to over-celebrate life events, with over the top celebrations that are more extravagant than the next public events of previously be privately celebrations. (Lonely Planet, 2017)

The celebration of *Teej* for this year- one of the most important festivals for Hindu women- can be cited as a prime example of this growing trend. Previously considered a one-day affair, this year women of various age groups and ethnicities were found gathered in banquets and halls to eat *Dar*- a meal consumed by women a day before the day of *Teej*, weeks before the given day. (Bajracharya & Ghimire, 2017)

Similarly, Nepalese have found many other traditions and celebrations, including Christmas, Bridal Shower, Baby Shower, Bachelor/bachelorette Parties, Birthdays, Anniversaries, to celebrate as a public affair like never before. In all of this, the demand for the public event venues has increased dramatically. It can be seen that restaurants, banquet halls and other party palaces have started to provide event management services to cater to the growing demands for hassle- free celebrations. Such event venues provide easy access for consumers to manage and reduce hard work by dividing the activities to the staff members of the venue. Holding an event in the venue also provide comfort and space to meet attendees and conduct their activities easily and with better company.

The event venues in Nepal, are growing every day, each providing a different value than the rest to match with the demands of the customers. However, due to lack of proper marketing and publicity for such event venues on online platforms, customers still primarily depend on the recommendations provided by a close friend/family or Word of Mouth marketing.

In context of the aforementioned growing trend and popularity of Event Venues and the gap within the trend, I believe that a web-based program that pools the information of all the venues that provides event management services in Kathmandu, in the beginning and can be expanded to Nepal in later phase, and allows customers to choose among the selection a right fit for their needs can solve the problem.

2. Aims and Objectives

The main aim of this project will be to build a web-based platform that allows pooling of the customers and the service providers, Event Venues, so facilitate easy and dependable access to required information and service. On the side of the customer, they can be able to view all potential Event Venues in one place and compare it against one another to find the best fit for their event. On the side of the service, provider, they will get a marketing platform to improve public visibility and reach larger number of customers without having to spend money on designing individual websites.

The project will include three different users: customer, owner and admin.

The major aims of the project are as follows:

Customer:

- To create an application where customer is allows viewing all nearby venues, and sorting them in a few different criteria based on price, location, event types etc.
- Get necessary information including: price range, accommodation number area of the venue, details of catering services to the customer.
- Get invoice and manage payment.
- Smart search of venues.
- Manage schedule and view calendar to reserve venue for the day.
- Create invitation and send through email.
- Post and read reviews and recommendations.

Dealer/ Owner of the venue:

- To manage the database of the venue and their customer.
- Manage orders and booking facilities.
- Manage Invoices.
- Get review and manage services.
- Post marketing and promotion schemes as well as promote various services.

Admin:

- To properly manage databases of customer and venues.

3. Expected Outcomes and Deliverables

With the completion of this project a user-friendly web application will be developed which will allow consumers to book an event venue for their events easily and efficiently. The application would primarily allow them to view important and necessary information about the event venue. They will be able to manage their event schedule online.

While the system would allow the dealer or owner of the venue to properly manage their customer and their reservations. Along with the management of the schedule and order, review provided by the customer will help them develop their business and improve their services to their customer.

4. Project risks, threats and contingency plans

The major risk of the project occurs when the dealer and admin is unable to update data to the system. If there exists programmatical error the system may not perform as expected.

Other major risk and threats are as follows:

1. Difficulty of implementing the Language.
   The proposed language to be used for the completion of the project is Python using Django as the framework. Due to inefficiency of proper knowledge on the language the project may lead to failure.
2. Booking of the Venue at the same time:
   When more than one customer tries to book the venue for the same time, there may be error in the system. it would be better to implement ‘first in priority’ case.
3. Privacy threat:
   The major threat of an ecommerce site is privacy threat.
4. Heavy load of data:
   It is a very important to manage data for management of the system. The website may crash due to heavy load of data.

Contingency plan

1. In case of inability to properly implement the language, the work would be iterated in a new pattern using PHP with Laravel as the framework.
2. The booking will follow first-in priority.
3. To maintain security, follow all the law carefully and suggesting user to use strong password.
4. Regularly maintaining backup of data.

5. Methodology

The methodology to be followed in this project, would be **USDP Model**. Unified Software Development process also known as Agile Unified Process is an incremental software development process. The process includes four phases: Inception, Elaboration, Construction and Transition. In the initial stage called **Inception**, various scopes and objectives of the project is discussed. The phase would help recognize risks and also lays down both aims and objectives of the project. The **Elaboration** stage is the next stage that includes introduction of basic designof the system. The use case model developed in this phase would help capture functional requirements of the system and other conceptual diagrams would allow to plan the project for construction phase. After the process of collecting requirements, reviewing specification and designing the system, the software is to be developed. The primary goal of the **Construction** phase consists of series of short iteration, each resulting in software release. The test such as unit testing, integration testing etc. are also conducted and reviewed. Finally, at the **Transition** phase the application is deployed. The software is maintained and finally submitted. (TechnologyUK, 2019) (Kendall, 2019)

With the guidance of the methodology the project can be managed efficiently and smoothly. It would help to manage time and amount of effort for modules of the project. Additionally, if we detect and problems or change in ideas, with continuous learning and guidance from the supervisor we can adopt the changes and manage features to the project.

6. Work Breakdown

Activities	Time Allocated	Description
1. Research	12 days	Before the acceptance of the feasible project, various research is to be conducted on the topic.
2. Requirement Collection and Analysis	16 days	After the acceptance of the title for the project, requirement for the project are listed and features for the project is decided. The schedule for project is discussed and planned carefully.
3. Design	40 days	Numerous diagrams like Use Cases, UML diagrams are to be designed. Wireframe for web application is also maintained.
4. Development	98 days	The project is developed module by module using various software tools.
5. Testing and maintenance	60 days	The outcome of implementation is tested on the basis of various testing methods: unit test, integration test, black-box testing etc. The project is then maintained and managed.
6. Documentation	97 days	Along with designing, implementating and testing the application, details about the project is documented.
7. Deployment	2 days	The project is maintained and finally submitted.

Table 1: Work Break-down

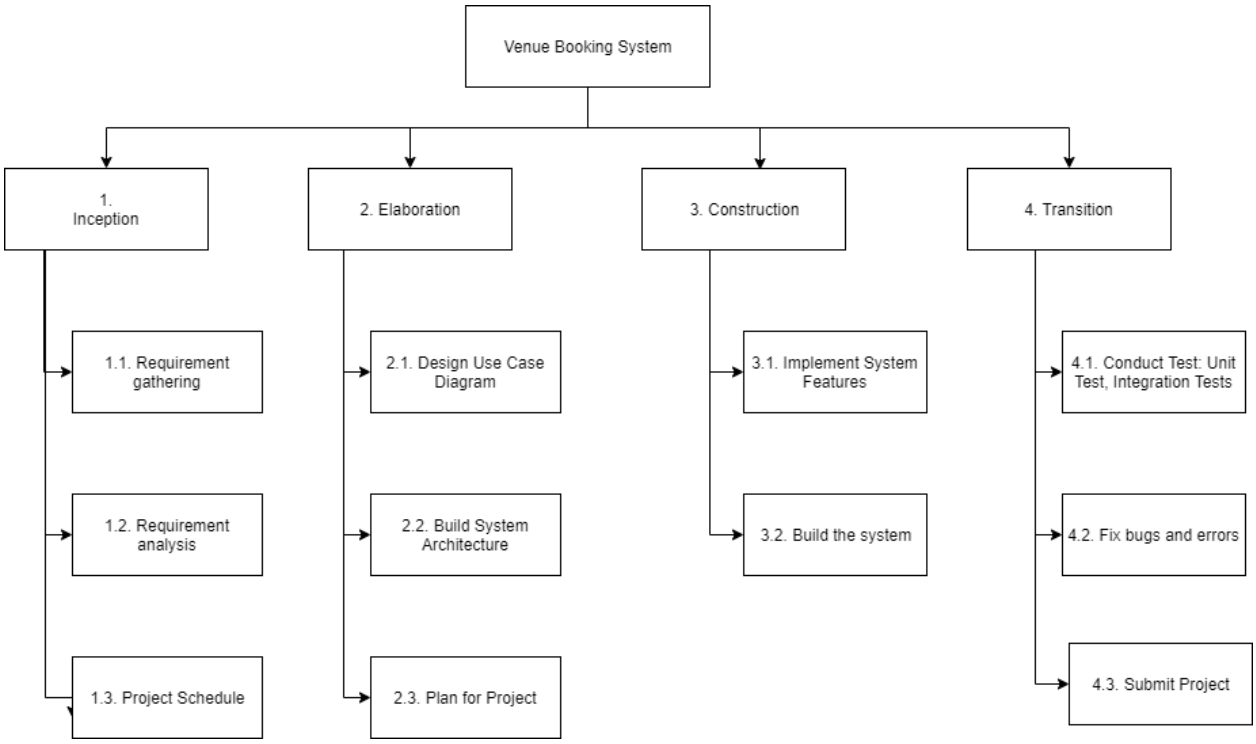

Figure 1: Figure showing work breakdown.

7. Gantt Chart

Task Name	Duration	Start	Finish
1. Inception	28 days	Wed 10/16/19	Fri 11/22/19
1.1. Research	12 days	Wed 10/16/19	Thu 10/31/19
1.2. Requirement Collection and analysis	16 days	Fri 11/1/19	Fri 11/22/19
2. Elaboration	40 days	Sat 11/23/19	Thu 1/16/20
2.1.Design Mockup for user interface	16 days	Sat 11/23/19	Fri 12/13/19
2.2. Design Use Case Diagram	19 days	Thu 12/5/19	Tue 12/31/19
2.3. Design ERD	20 days	Thu 12/12/19	Wed 1/8/20
2.4. Design System Architecture	15 days	Fri 12/27/19	Thu 1/16/20
3. Construction	98 days	Fri 12/20/19	Tue 5/5/20
3.1. Development of user Login	7 days	Wed 12/25/19	Thu 1/2/20
3.2. Development of dashboard for users	20 days	Fri 1/3/20	Thu 1/30/20
3.3. Development of other pages for users.	49 days	Wed 1/29/20	Sun 4/5/20
3.4. Manage Payment gateway	15 days	Wed 3/25/20	Tue 4/14/20
3.5. Implementation of database	35 days	Tue 3/10/20	Mon 4/27/20
4. Transaction	89 days	Fri 12/20/19	Wed 4/22/20
4.1. Conduction of Unit Testing	30 days	Mon 12/30/19	Fri 2/7/20
4.2. Conduction of Integration Testing	23 days	Sat 3/14/20	Tue 4/14/20
4.3. Maintainance of Project	20 days	Sat 4/4/20	Thu 4/30/20
4.4. Documentation	97 days	Fri 12/20/19	Sat 5/2/20
4.4.1 Interim Report	14 days	Fri 12/20/19	Wed 1/8/20
4.4.2. Final Report	92 days	Fri 12/20/19	Sun 4/26/20
4.5. Deployment	2 days	Fri 5/8/20	Sun 5/10/20

Figure 2: Gantt chart.

8. Resources Requirements

The resources required for the completion of the project are Hardware including a laptop device. HTML, CSS and Django framework will be used for developing the Frontend. While Python, database (MySQL) and different APIs will be used for backend. Software like Vs Code will also be used for completion of the project.

9. Milestones

- Requirement for the project will be collected (22nd November 2019).
- Wireframe for the web app will be developed (13th December 2019).
- GUI will be completed (5th April 2019).
- Database will be created for the application (15th April 2019).
- Python and different APIs will be used for backend (23rd April 2019).

10. Conclusion

With ever-growing use of ecommerce, and online booking sites and Nepal being indigenous country with varieties of people celebrating various occasions and festivals through out the year, the project "Venue Booking System" might be a simple yet a powerful application for both event managers and customers.

The major goal of this project is to provide a user-friendly application to the venue dealers or owners and their valuable customer of the venue. The system would also allow the venue managers to proper keep track of their schedule and handle customers carefully. It would help the dealer to provide better service to their customer and flourish their business. From customers' point of view the system would not only help view and book the venue but allows helps to send invitation cards through emails and manage schedules and payment for their event. Therefore, the system would help digitalize event management and uproot the requirement of physically visiting the venue to manage event (PeekPro, 2019).

Moreover, the application may also help maintain friendly relationship between the owner and the customer. Therefore, the key objective of the application is to deploy a user-friendly application which is easy and comfortable to use for the end-user.

11. References

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