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1 Introduction

In a world that is culinary diverse, there is a growing appreciation for rich culinary cuisines globally. Among them, European cuisine gives us the definition of a fine dining experience and extra lavishing style of cooking, while South Asian Cuisines such as Indian shine in their use of extra-ordinary spices and their authentic way of cooking (*Ji, 2022*).

Nepalese cuisine is a hidden gem waiting to be explored, Nestled at the foothills of the Himalayas, Nepal contains a total of 142 ethnic groups all having different ways of cooking. The cuisine reflects its diverse geography with the fertile plains of the Terai region offering rice and lentils while the Himalaya region offers unique wild mushrooms, herbs, and spices. Nepalese cooks combine these ingredients with their aromatic spices to create a dish with authentic Nepalese flavors (*Maharjan, 2022*).

Nepalese cuisine offers a tantalizing palate from classics Momo and Dal Bhat to exotic dishes like Sel roti and Gundruk, these dishes are yet to be explored and are renowned all over the globe. We Nepalese have been addicted to fast food like burgers, pizza, etc. ignoring the rich taste of our Nepalese cooking (*Deepan, 2020*).

Considering these facts, I have decided to develop a website that will help promote Nepalese cuisines worldwide and in the country itself.

1.1 Problem Scenario

According to Pramod Jaisawal, President of Restaurants and Bar Association of Nepal (REBAN), there are only 2,000 standard restaurants, bars, fast food outlets, and cafes operating across the country (*PRASAIN, 2017*). Whereas only 65% of the restaurants have been registered and are online in the business in Nepal (*Sिताला, 2023*).

More than 90% of people research a restaurant online before going to the place, and “77% of consumers look up more on peer reviews compared to critic reviews” (*PYMNTS, 2020*). While many local restaurants still don’t put their business up online in Nepal causing them not to be recognized.

More than 35% of people discover restaurants through online reviews and only dine if it has good reviews. (*Toast, 2019*). This causes the revenue of restaurants to go down drastically even with good food and services.

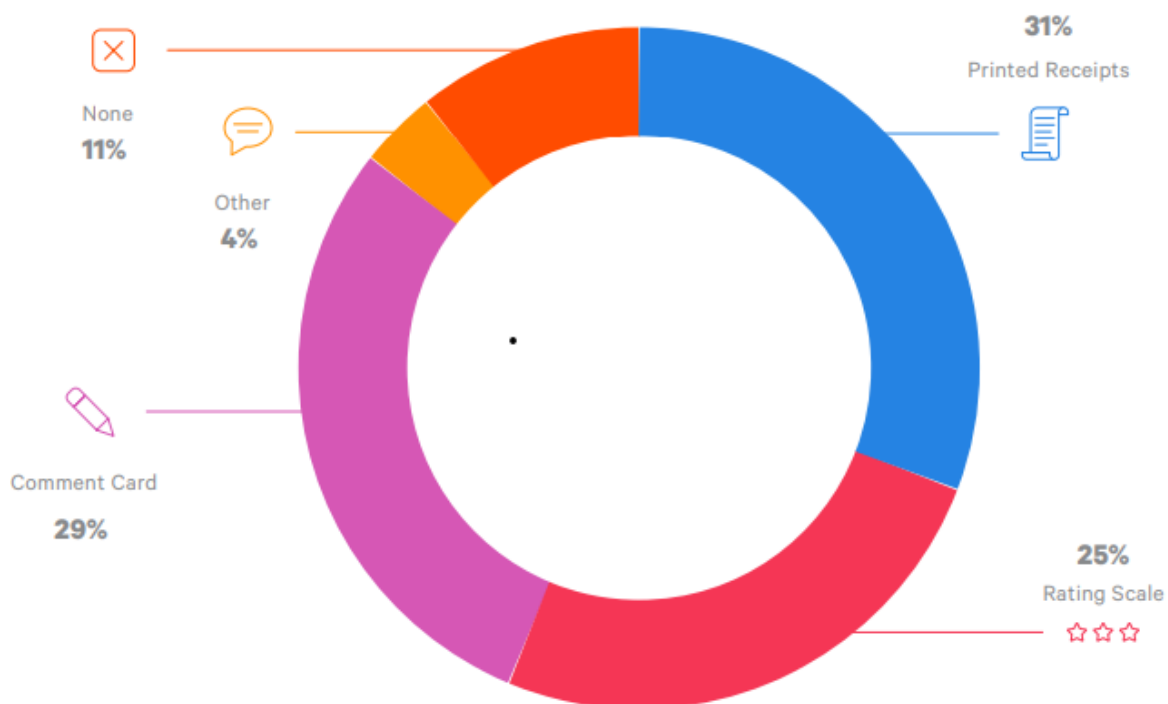


Figure 1: Rating Scale

(*Toast, 2019*)

Since the pandemic, about 55% of diners have been eating at home and want to elevate their home cooking into a lavish dining experience. However, due to a lack of experience, it has been difficult for home cooks to gain proper dining experience (*FinanceOnline, 2021*). One of the reasons is difficulty in finding correct ingredients to follow a proper recipe. Where, more than 47% of consumers find it difficult to correct ingredients due to numerous factors (*Hutzler, 2022*).

1.2 Solutions

The problems mentioned above can be overcome with the help of the system “Nepalicious”. With growth in foodies all over the world, Nepalicious will help them find different local restaurants easily. Nepalicious will also provide traditional Nepalese Cuisines recipes for all home cooks who would like to elevate their cooking experience.

The major solutions the project provides are listed below:

- a. Registration as admins for restaurants, chefs, and vendors.
- b. Curated Searching System for restaurants.
- c. Evaluation and Feedback systems for restaurants and recipes.
- d. Exploring Secrets of Nepali Recipes.
- e. Special Marketplace for ease of purchase of products for users

2 Aims and Objectives

2.1 Aim

The project aims to develop a user-friendly website that allows users to learn about Nepalese cuisine and help promote Nepalese cuisine while supporting local restaurants. The objectives are listed below:

2.2 Objectives

- a. Develop a web application using Django, allowing users to discover hidden Nepalese culinary gems.
- b. Implementation of registration for restaurants, users, chefs, and vendors.
- c. Developing registration for chefs, restaurants, and vendors which requires documents that are approved by the admin.
- d. Search feature to gain knowledge about different restaurants.
- e. Develop system that provides Nepalese recipes published by chefs registered into the system.
- f. Rating and Review system for the Recipes and restaurants available on the system.
- g. Develop a marketplace where users can shop and make payments.
- h. Develop a dynamic profile system for different users which allows them to manage their historical data within the system.

3 Expected Outcomes and Deliverables

After the completion of the project “Nepalicious”, the project will have several features and functionalities. The deliverables are listed below:

- a. The project should allow users to find quality restaurants based on different Nepali Cuisines.
- b. The project will allow different types of users to register into the system.
- c. The user like the chef, restaurant, and vendor must provide documents for registration that are approved by the admin.
- d. The project will allow users to find and review different recipes and restaurants available on the website.
- e. This system acts as a marketplace where users can buy the necessary equipment and spices required for cooking.
- f. Users will have a personalized profile that allows them to save recipes for future use and the history of products they bought from the marketplace.
- g. Chefs will also have a personalized profile that allows them to view their posted recipes.
- h. Vendors will have a personalized profile that allows them to add their products to the marketplace and keep the history of the products sold by them.

4 Project risks, threats and contingency plans

4.1 Project risks

a. Technical failures:

There's a risk of technical issues, such as app crashes, server downtime, or data loss.

b. Competitions:

Other apps offer similar services which may pose risk while joining the market race.

c. Data Security and Privacy:

Data leaks and personal data leaks could damage the reputation of the system.

d. Internet connectivity issues:

Users with poor internet connectivity could have hard time accessing the features of the projects.

e. Imposter accounts

Users such as Chefs and vendors may provide fake details and become one of the admins.

f. Improper rating and reviews

Users may give unfair reviews and ratings for different recipes and restaurants.

g. Payment disputes

There may be disputes related to payments while buying different products from the marketplace.

h. Completion of project

There are many features to be integrated into the system, this may cause delays in completing the project on time.

4.2 Contingency plans

a. Technical Failures

Implementation of regular backups and setting up recovery plans.

b. Review of budget

Review budget of the project daily and find affordable ways to complete the project.

c. Setting clear milestones

Monitoring progress and setting clear milestones for every task.

d. Optimization of database and data security

Using load balance techniques and investing in security audits.

e. User Adoption

Provide warnings and training to increase awareness of fake users and reviews.

f. Internet Connectivity

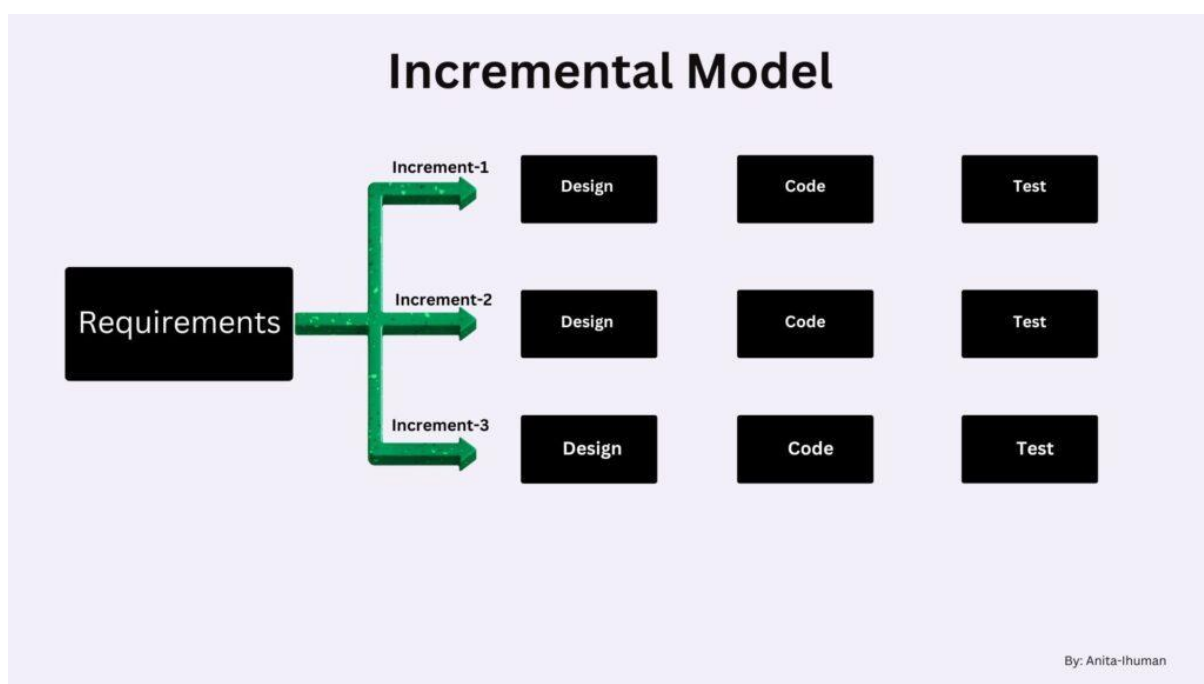
Optimizing the system for low bandwidth connectivity.

5 Methodologies

5.1 Considered Methodologies

5.1.1 Incremental Methodology

Incremental Methodology is a type of SDLC that is mainly used to build large and complex systems. This methodology is based on idea of adding to features on “increment” (Plutora, 2023).

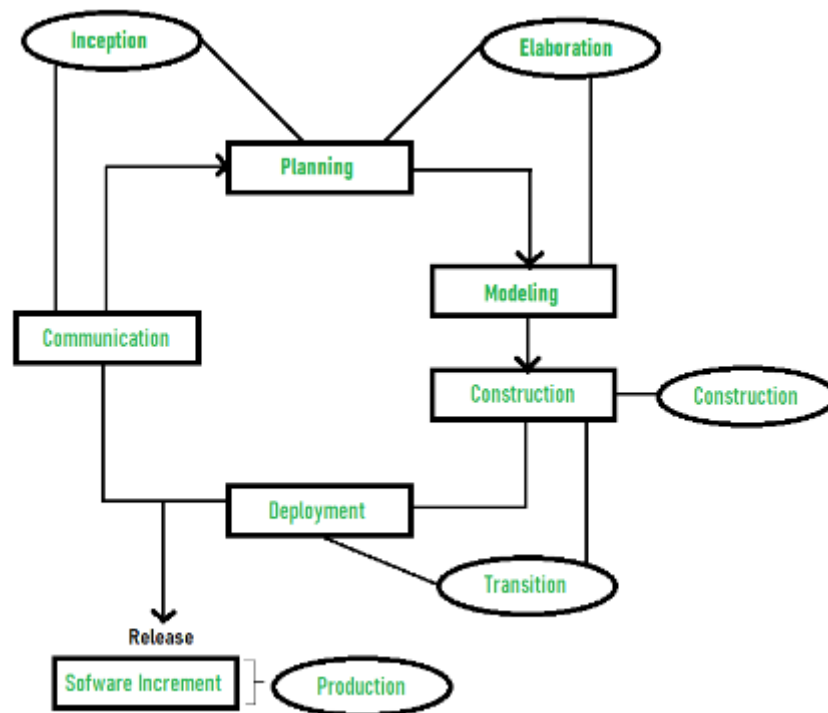


(Plutora, 2023)

Figure 2: Incremental Methodology

5.1.2 RUP Methodology

RUP (Rational Unified Process) is an SDLC developed for object-oriented models. RUP uses UML (Unified Modeling Language) which can be difficult to be understood by beginners. Hence it requires an expertise to maintain the project (GeeksForGeeks, 2022). RUP has 5 phases; they are shown below:



(GeeksForGeeks, 2022)

Figure 3: RUP methodology

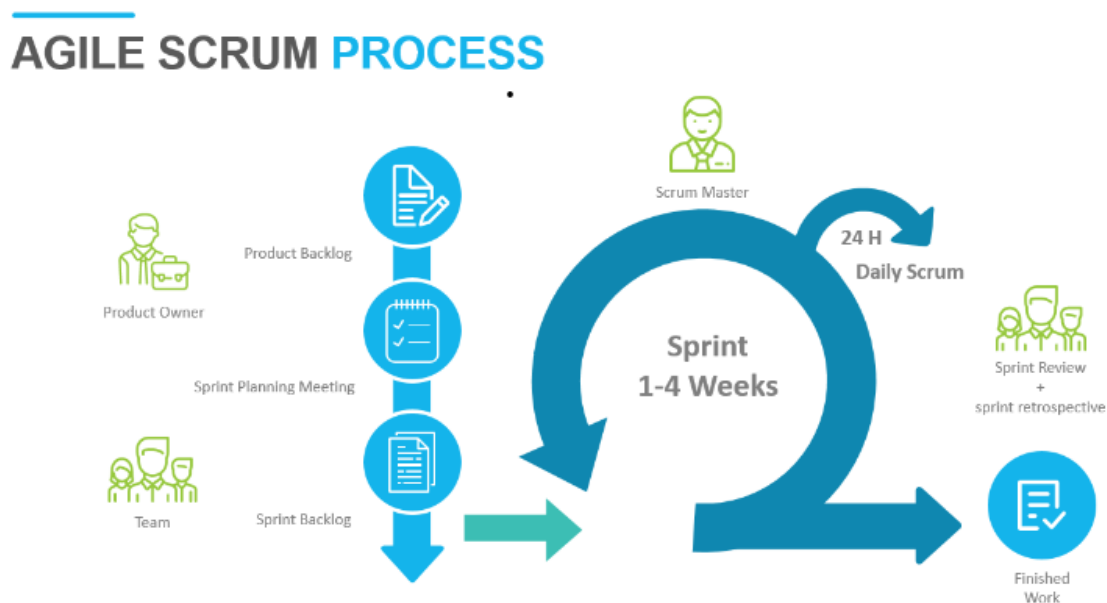
5.2 Selected Methodology

5.2.1 Agile Methodology

Agile methodology consists of many Frameworks, one of them being the Scrum Framework.

5.2.1.1 Scrum Framework

Scrum framework is one of the most used frameworks in Agile Methodology. Scrum works in different sprints while dividing tasks, allowing system to evolve and adapt to changes to complete a project. Scrum provides teams with perfect structure to fit their workflows ensuring effective time usage and money (Singh, 2021). The process for scrum development can be seen below:



(Ihor, 2022)

Figure 4: Agile Scrum Framework

I have chosen Scrum framework to help complete my project Nepalicious. The reason I chose Scrum excluding other methodologies listed down below:

a. Project Flexibility

Scrum's iterative development method helps in making quick changes according to the requirements of the project.

b. Project Visibility

Scrum works in different sprints. This allows us to track our progress easily as different tasks are divided into different sprints.

c. Clear milestone

We can define clear milestones, which will allow us to visualize the development pace and keep track of time.

6 Resource Requirement

Basic requirement to complete this project are as follow:

6.1 Hardware Requirements

- a. Computer: Personal laptop to run development tools and applications
- b. High-speed internet connection runs applications without any connectivity issues.

6.2 Software Requirements

- a. Project Management Tool: Jira
- b. IDE: VS code
- c. Frontend requirement: HTML/CSS, JavaScript, Tailwind/Bootstrap
- d. Backend requirement: Python, Django
- e. Database: SQLite
- f. Version Control: GitHub
- g. Cloud Service: Google Cloud

7 Work Breakdown Structure

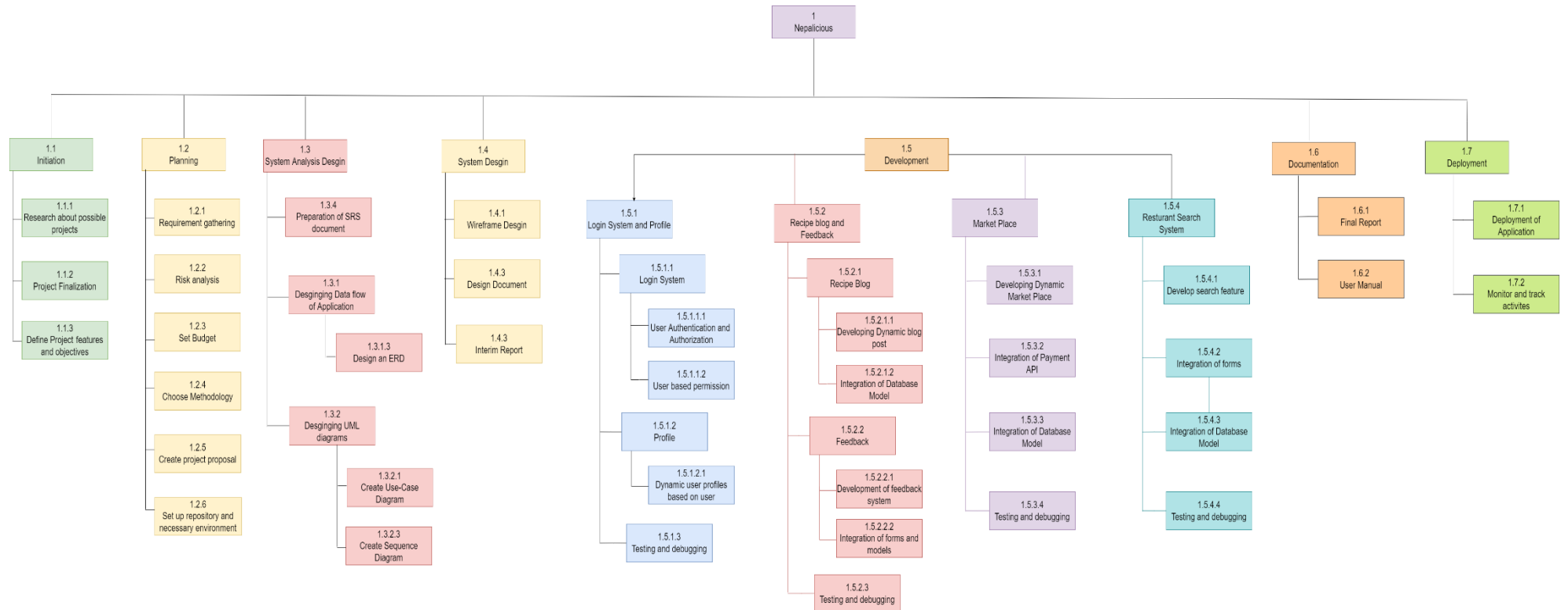


Figure 5: WBS

8 Milestones

Milestone 1 Finalize topic for the project:

After multiple research and discussion with my supervisor, the project topic was decided “Nepalicious”.

Milestone 2 Proposal Submission:

The proposal acts as a foundation for the project. Proposal contains all the initial requirements of the project and research needed for future developments.

Milestone 3 System Analysis:

This milestone contains SRS documents, ERD, and UML diagrams. These all showcase the requirements and functionalities of the project.

Milestone 4 Designing:

Designing acts as the blueprint of the project. These milestones will contain all the designing of wireframes and design documents. Creation of these would help in developing user-friendly UI.

Milestone 5 Interim Report:

Interim report plays a vital role in completion of the project as it explains all the project features and functionality in complete detail through different diagrams.

Milestone 6 Login System and Profile:

This milestone is dedicated to developing a fully-fledged login system for the project using user authentication. And create dynamic profiles for different user types.

Milestone 7 Recipe Blog and Feedback System:

This milestone is based on developing a Blog where users can see the Recipe posted with a Feedback mechanism for registered users.

Milestone 8 Marketplace:

Developing a Marketplace where users can buy necessary equipment and ingredients needed for the cooking with implementation of payment API.

Milestone 9 Restaurant Search System:

Developing a search feature to gain easy information about different restaurants registered in the system.

Milestone 9 Documentation:

Documenting the whole journey with a proper report that excellently documents the project created which includes a user manual to guide new users.

Milestone 10 Deployment:

After thorough testing and being satisfied with the project. In this milestone, the project is deployed for public use.

9 Gantt Chart

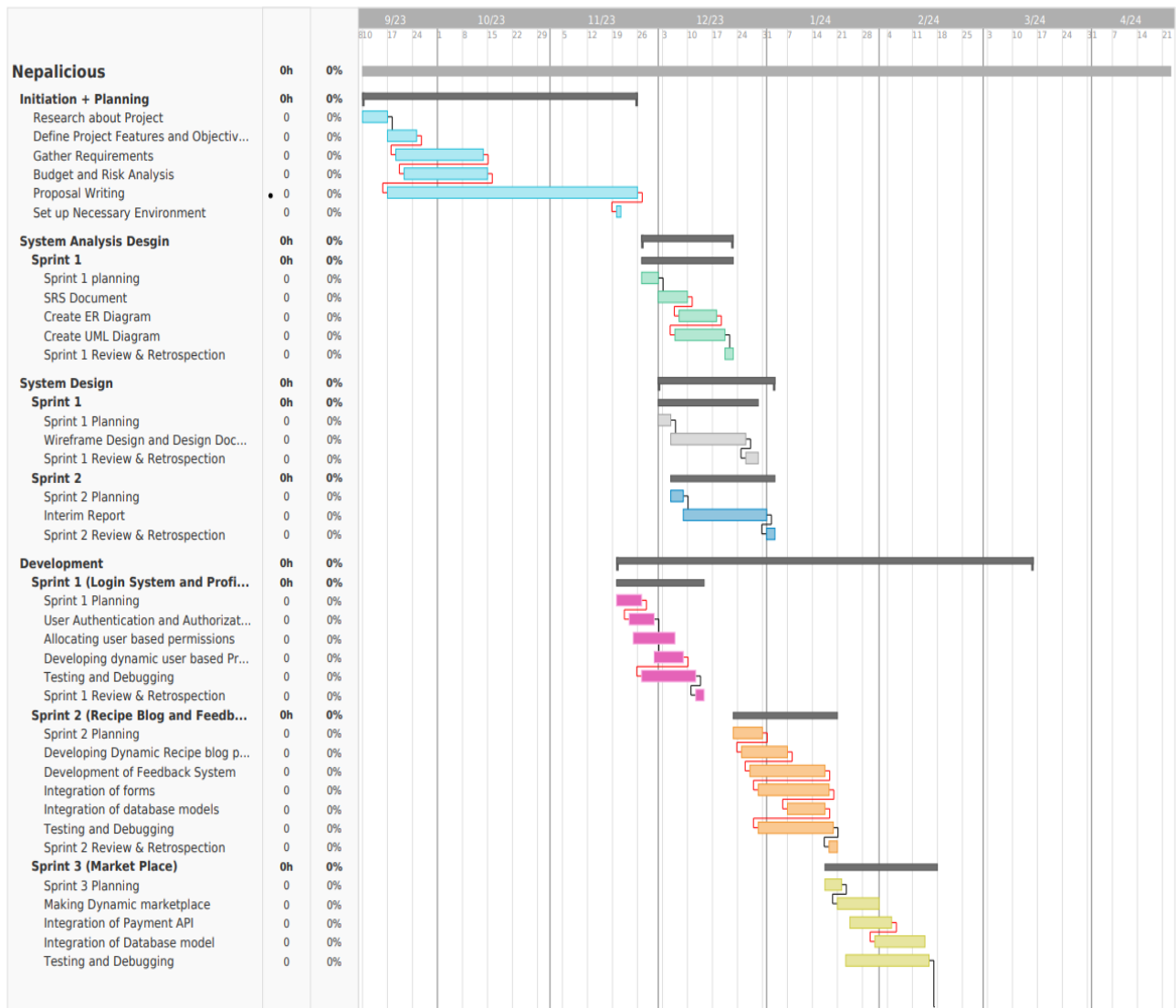


Figure 6: Gantt Chart page 1

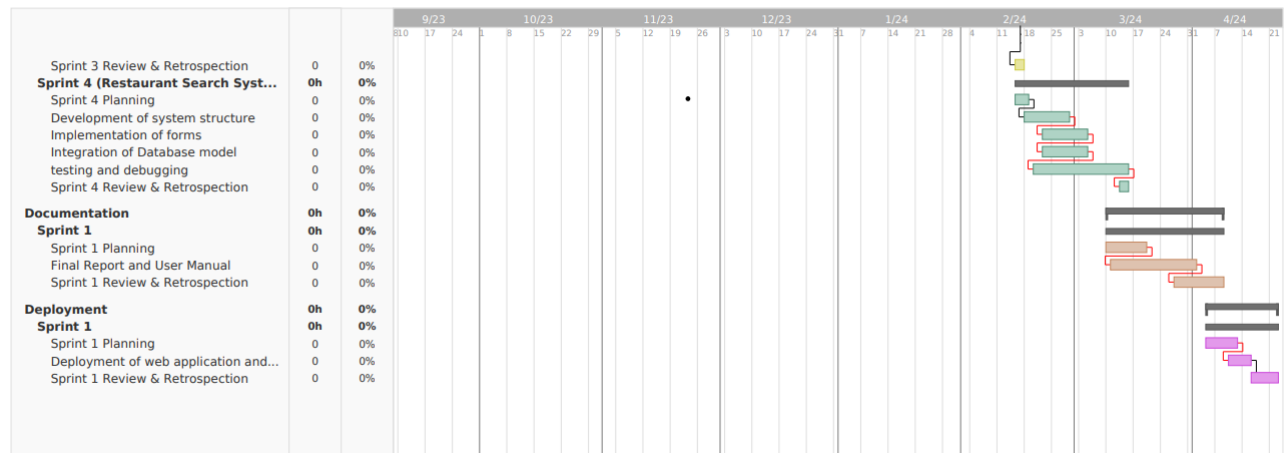


Figure 7: Gantt chart page 2

10 Conclusion

With the growth of foodies all around the world, Nepalese cuisine is still neglected and still does not have the recognition it deserves. This platform aims to promote Nepalese Cuisine worldwide while promoting local restaurants. This platform allows different restaurants to register into the system to promote their own local business and gain more customers. Alongside promoting business, people all around the world can also view the website and try out Nepalese cuisine by following the recipes posted on the website by top chefs in the Nepalese cooking industry.

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