Chapter 5

**SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS**

This chapter summarizes the study's findings and the conclusions to the problems concerned with the development of the proposed Monitoring System for Bolinao and provides recommendations on its proper implementations and further developments.

**Summary**

This research aims to design and develop Monitoring System for Bolinao that will aid the Bolinao Tourism Office in tourist activities in the locale.

Furthermore, this study aims to achieve the following:

1. Identify the existing process and monitoring techniques of Bolinao’s Tourism.
2. Identify the problems encountered within the existing process of Bolinao Tourism Office.
3. Devise features to be integrated in the proposed Tourism Monitoring System; and
4. Determine the acceptability level of the developed system: a) Functionality, (b) Reliability, (c) Usability, (d)Efficiency, (e)Maintenance, and (f)Portability

This project study utilized Microsoft Visual Studio Code as the IDE alongside with Laravel PHP Framework as the programming language to implement the different features of the proposed system using Scrum Methodology. The Scrum Methodology has the following phases: a.) Initiation, b.) Planning and Estimation, c.) Implementation, d.) Reviewing; and e.) Releasing

**Findings**

1. The existing process in tourism office is by fill-up of registration form and collecting this data for encoding.

2. The tourism office encountered difficulties in collecting tourists’ data because of network signal problems and time-consuming process of collection based on location.

3. The features of the proposed system are (a) Register account where OTP is implemented, (b) User Profile Setting, (c) Dashboard, (d) Live Map Counter, (e) Booking which allows user to request entry, (f) Manage Request which has Cancel Request, Leave destination, and Check status of the booking, (g) Staff Account Creation; and (h) Notification.

4. Based on the results of the proponent’s survey, the weighted mean in terms of functionality, reliability, usability, efficiency, maintenance, and portability.

**Conclusion**

Based on the findings, the following conclusions are drawn.

1. The existing process of the Tourism Office was collection of tourist data through distribution of registration forms in the tourist sites and establishments. Monitoring Techniques observed is by collection of tourists’ data through (a) manual collection; and (b) Google Forms which is being processed by assigned statistician.

2. The tourism office encountered difficulties in collecting data because of how network signals are being interrupted specifically to remote areas of Bolinao that has tourist site or establishment. This affects the time to collect, encode, and generate reports in the tourism office.

3. The features of the proposed system are (a) Register account where OTP is implemented, (b) User Profile Setting for users to edit profile information for booking, (c) Dashboard where users will see the live counts of people who booked in a destination, (d) Live Map Counter to see the map of Bolinao with pins and live counts, (e) Booking which allows user to request entry to their preferred destination with ticket number generation, (f) Manage Request where users will be able to cancel, leave destination, and see status of the booking, (g) Staff Account Creation to create staff accounts per destination registered in the system; and (h) Notification that notifies users for alerts or updates from a destination .

4. Based on the results of the proponent’s survey, the weighted mean in terms of functionality, reliability, usability, efficiency, maintenance, and portability is <<placeholder>> which reflects as <<Placeholder description>>; therefore, the developed web-based system can now be adopted for implementation by the Tourism Office of Bolinao.

**Recommendations**

The following were the recommendations for the implementation and further development of the system:

1. To use the web-application, the tourism office will be given hands-on training.

2. It is recommended to train the user of the staff accounts of the location in using the web-application specially in cases that there is network signal interruption.

3. To effectively use the web-application, the tourism office should secure their server and domain to avoid network attacks such as DDoS.

The web-application should be updated through GitHub after implementation. Code collaborators should use branches to create PRs for easy compiling of fixes or updates.