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FLIGHT SCHEDULING SYSTEM FOR AAA

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**A Thesis
In partial Fulfillment of the Requirements
for the degree of Bachelor of Science in Computer Science
College of Communication and Information Technology
President Ramon Magsaysay State University
Iba, Zambales**

June 2023



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Republic of the Philippines
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APPROVAL SHEET

This study entitled “**Flight Scheduling System for AAA**” prepared and submitted by **Jonathan C. Abiva, Roselle M. Dela Cruz, Patrick Mark O. Labrador, Kaila Mae B. Macadaan, and Lesly Ann D. Reyes** in partial fulfilment of the requirements for the degree of **Bachelor of Science in Computer Science** are hereby recommended for oral examination.

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ACKNOWLEDGEMENT

The researchers would like to sincerely thank and show their gratitude to those who made significant contributions to the completion of the researcher's thesis during this journey.

First and foremost, the researchers would like to express the researcher's gratitude to the Almighty God for bestowing upon them the power, endurance, and wisdom necessary to successfully complete this thesis.

The researchers like to express their deepest gratitude to the following people:

Mr. Daniel M. Bachillar, their thesis adviser, who have been guiding and supporting them throughout research. His expertise, encouragement, and patience have been invaluable, and the researchers are grateful for his invaluable contributions and dedication to their success. The researchers are really appreciative of his unending assistance and mentoring;

Engr. Carl Angelo S. Pamplona, the Program Chair of Computer Science and their Instructor in Thesis 1 and 2, for taking the time to teach them in their research. The researchers are grateful his dedication and commitment to helping them understand the material and grow in their knowledge. His expertise has been invaluable in helping them to gain a deeper understanding of the capstone project to finish their research;

Dr. John Lenon E. Agatep, Mr. Israel M. Cabasug and Mr. Darwin M. Moraña, the excellent research panels for their helpful contribution to their research. Their thoughtful feedback and insights have been incredibly helpful in advancing and significantly enhancing proposed system;



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Mr. Rodolfo R. Ubaldo, the OIC of CAAP, and **Capt. Kazuya Katayama**, the Chief Admin of AAA for allowing them to distribute their questionnaires to AAA employees and students and for providing time to demonstrate their proposed system;

To the members of the AAA, employees, and to the students for being their respondents for taking their time to complete their survey and provide valuable feedback. Their insights are greatly appreciated and will help them to improve their research;

Lastly, to their parents and friends for their continuous support and inspiration during the course of their research. Their unwavering love and support helped the researchers stay focused and determined to finish their research, and it was a tremendous source of strength. The researchers sincerely appreciate their support and faith in their talents, as well as their words of encouragement.

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EXECUTIVE

The Flight Scheduling System for All Asia Aviation (AAA) is a comprehensive software solution designed to streamline and optimize flight scheduling operations for the aviation industry. This executive summary provides a clear and easy-to-understand overview of the system's key features, benefits, and potential impacts.

The Flight Scheduling System for AAA is a user-friendly web-based application that simplifies and automates the flight scheduling process. It aims to enhance operational efficiency, improve resource allocation, and provide real-time visibility into flight schedules. By replacing manual scheduling with an automated system, the AAA can save time, reduce errors, and improve overall productivity.

Key features of the Flight Scheduling System for AAA include schedule management, resource allocation, notifications and reminders, reporting and analytics, and integration capabilities. The system allows for easy creation, modification, and cancellation of flight schedules, minimizing conflicts and maximizing resource utilization. Automated notifications and reminders keep stakeholders informed about flight updates, ensuring effective communication. The system also provides valuable insights through reporting and analytics, enabling data-driven decision-making. Integration capabilities ensure seamless data flow with existing systems.

With 71 respondents, the employees and students of AAA assessed the system quality, level of acceptance, and level of readiness of the Flight Scheduling System, using the ISO/IEC 25010:2011 measure. According to the overall results, employees of AAA



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rated the system's web application quality as "excellent," with a grand mean of 3.50, its level of acceptability as "highly accepted," with a grand mean of 3.46, and its level of readiness as "very ready" with a grand mean of 3.55. Students of AAA rated the system's web application quality as "excellent", with a grand mean of 3.51, its level of acceptability as "highly accepted," with a grand mean of 3.39, and its level of readiness as "very ready" with a grand mean of 3.51.

The researchers recommended Automatic Cancellation, Enhanced Security and Virus Protection, System Improvements, Addition of New Features, and AI Support and Data Analysis. These improvements can be made to enhance the overall functionality and usefulness of the system.

In summary, the Flight Scheduling System for All Asia Aviation is a user-friendly software solution that automates and simplifies flight scheduling operations. With its features such as schedule management, resource allocation, notifications, reporting, and integration capabilities, the system brings numerous benefits to the aviation industry. These benefits include improved efficiency, enhanced communication, increased transparency, cost savings, improved productivity, and scalability. By implementing this system, All Asia Aviation can optimize their flight scheduling operations, leading to a more streamlined and efficient aviation industry.



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LIST OF NOTATIONS

AAA	All Asia Aviation Academy
Ajax	Asynchronous JavaScript
CSS	Cascading Style Sheets
DOM	Document Object Model
GUIS	Graphical User Interfaces
HTML	Hypertext Markup Language
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
MathML	Mathematical Markup Language
RDBMS	Relational Database Management System
SAA	Sample Average Approximation
SQL	Structured Query Language
SVG	Scalable Vector Graphics
XHTML	Extensible Hypertext Markup Language

