

## FLIGHT SCHEDULING SYSTEM FOR AAA

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## **A Thesis**

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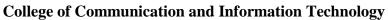
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## APPROVAL SHEET

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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#### **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



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

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