ICT167 Principle of Computer Science

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# **1. Title**

**Student Management System Documentation:** Authored by Keith Neo Kai Si on March 28, 2024, the Student Management System Documentation provides an overview of the functionalities of the Java-Based Student Management System. The system is designed to handle student data through CSV files and comprises several Java files, including CsvHandler.java, Client.java, Student.java, Student\_Research.java. Studetn\_Course.java, Unit.java, Unit\_Course.java, and Research.java. Its core objectives include efficient loading of student information from stude.csv, adding marks from student\_marks.csv. student removal, information display, and exporting organized student data back to a CSV file. Employing Java’s object-oriented programming principles, such as inheritance and polymorphism, the system effectively models various student types and their enrolment in different units. Furthermore, the documentation elaborates on Java’s files handling capabilities, illustrating the system’s CSV file reading, and writing processes for sustained data integrity. This comprehensive guide serves as a valuable reference for developers seeking to implement or enhance student management systems using Java.

# **2. Requirements/Specification**

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