



## “GradesGo” - A Comprehensive Practical Framework for Calculating Grade One Admission Marks

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### Abstract

"GradesGO" is a comprehensive approach to the grade 1 admission mark calculation process in government schools. It aims to streamline operations, reduce paperwork, and enhance transparency. Initially tailored for the Galle district due to the absence of a digitalized solution, our platform seeks to address the island-wide need for a reliable, robust system. To achieve this, we developed a user-friendly website accessible to the public, leveraging latest MERN stack. We prioritized accurate proximity calculations to schools, utilizing Google Maps® API for precise distance measurement. Additionally, we compiled a comprehensive digital database specific to the Galle district containing school

coordinates. Our platform generates printable PDF documents that reflect final marks aligned with government circulars. Each document includes a unique hash for verification via our platform, ensuring accuracy and transparency. Feedback from educators and parents in Galle district, collected through administrative channels, highlights a 98% satisfaction rate, validating our platform's success. The feedback mechanism, involving individuals with over 90% computer literacy, proves efficient and cost-effective, empowering parents in their decision-making process. Despite current limitations, our future roadmap includes expanding island-wide and integrating with existing educational systems, fostering greater connectivity and efficiency.

**Keywords:** Automated grading, Digitalized solution, Grade 1 admission, Parental Empowerment, User-friendly

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