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MINI PROJECT REPORT

OF

SCIENTIFIC CALCULATOR USING ANDROID STUDIO

Submitted by

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Under the Guidance

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MOODBIDRI- 574225, KARNATAKA

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Mini Project Guide

Dept. of ISE, AIET

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CERTIFICATE

*Certified that the mini project work entitled "**SCIENTIFIC CALCULATOR USING ANDROID STUDIO**" is a bonafide work carried out by*

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in partial fulfilment for the award of **BACHELOR OF ENGINEERING** in **INFORMATION SCIENCE AND ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM** during the year 2022-2023 It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.



Ms. LOLAKSHI

Project Guide



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ABSTRACT

This the design, development, and functionality of a scientific calculator application. The report highlights the key features, implementation details, and the user interface of the app. It also discusses the challenges faced during development and provides insights into potential future enhancements. The scientific calculator app aims to provide users with a comprehensive set of mathematical functions, including basic arithmetic operations, trigonometric functions, logarithmic functions, factorials, and more. The app is developed for the Android platform using Java and the Android SDK. The report begins with an introduction to the purpose and goals of the scientific calculator app. It outlines the importance of scientific calculators in various fields and highlights the need for a mobile application that offers advanced mathematical functionalities.

The functionality of the scientific calculator app is then described in detail. Each mathematical operation, such as addition, subtraction, multiplication, division, exponentiation, and square root, is explained along with its implementation. The report covers the integration of trigonometric functions like sine, cosine, and tangent, logarithmic functions, and factorial calculations.

The handling of user inputs, validation mechanisms, and error handling to ensure accurate calculations and a smooth user experience. It highlights the utilization of data structures like Array Lists for storing calculation history and demonstrates the implementation of updating the calculation history in real-time.