



GODAVARI COLLEGE OF ENGINEERING AND POLYTECHNIC,  
JALGAON

## **CAPSTONE PROJECT (CPE)**

Abstract

of

**BUS PASS MANAGEMENT APPLICATION:**

**“ GoPass ”**

Submitted by Students of

**DIPLOMA IN COMPUTER ENGINEERING**



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# ABSTRACT

The **Bus Pass Management Application**, named "**GoPass**", is an Android application developed using **Kotlin** and **Jetpack Compose** to streamline the process of bus pass management. This system is specifically being designed for **our college's use**, aiming to provide students and teachers with a **convenient and efficient** way to access, manage, and track their bus passes.

The primary objective of **GoPass** is to replace traditional paper-based passes with a **digital, user-friendly solution** that enhances accessibility and organization. The system will include key features such as **student and teacher profile management, bus pass issuance and renewal, real-time pass validation, and fare calculation**. By digitizing this process, **GoPass** seeks to **minimize administrative workload, reduce errors, and improve overall efficiency** in transportation management.

While this project is initially being developed **exclusively for our college**, if it proves to be **successful and effective**, it has the potential to be **adopted by other colleges** as well. With its **intuitive UI, seamless functionality, and ability to maintain accurate records**, **GoPass** could serve as a **scalable solution** for educational institutions looking to modernize their bus pass systems.