

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY,  
BELAGAVI - 590018**



**Mini Project Report**

**On**

**“ QR CODE SCANNING”**

**A report submitted in partial fulfillment of the requirements for**

**MOBILE APPLICATION DEVELOPMENT LABORATORY (18AIMP68)**

**in**

**ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING**

**Submitted by**

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**CERTIFICATE**


This is to certify that the Mini Project entitled "QR CODE SCANNING" has been successfully completed by

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in the partial fulfillment for the award of Degree of Bachelor of Engineering in Artificial Intelligence and Machine Learning of the Visvesvaraya Technological University, Belagavi during the year 2023-2024. It is certified that all corrections/suggestions indicated have been incorporated in the report. The Mini project report has been approved as it satisfies the academic requirements in respect of Mini Project Work prescribed for the award of Bachelor of Engineering Degree.

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# ABSTRACT

QR (Quick Response) code scanning has become increasingly popular in recent years due to its convenience and versatility. This technology allows users to scan QR codes using their smartphones or dedicated scanners, enabling quick access to information or performing various actions. This abstract explores the process of QR code scanning, highlighting its key components and applications.

The process of QR code scanning involves three main steps: code recognition, decoding, and action execution. Code recognition involves detecting and identifying the QR code within an image or physical object. Once the code is recognized, decoding takes place, where the encoded information within the QR code is extracted and translated into a readable format. The decoded information typically includes URLs, text, contact information, or other data types.

Once the QR code is decoded, the final step is executing the desired action associated with the code. This can involve opening a website, displaying additional information, making a payment, adding a contact, or initiating various other interactive functions. The specific action depends on the purpose of the QR code and the intention of the code creator.

QR code scanning finds applications in various domains. In marketing, QR codes are used to provide quick access to product information, promotions, or discounts. They can also be utilized for mobile ticketing, allowing users to access event tickets or boarding passes directly on their smartphones. In the retail sector, QR codes enable easy payment through mobile wallets or provide product details and reviews. Furthermore, QR codes have become prevalent in contactless menus at restaurants, reducing physical contact and enhancing the dining experience.

Overall, QR code scanning simplifies information retrieval and enables seamless interactions between the physical and digital worlds. With the ubiquity of smartphones and the ease of QR code creation, this technology continues to gain traction and offers limitless possibilities for user engagement and enhanced convenience.