



Low Level Document (LLD) QR Code Generator

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DECLARATION

I declare that this written submission represents us ideas is my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources.

I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission.

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Revision History

Version	Date	Author	Reviewer	Approver	Comments
0.1	15-09-2022	Karishma	Karishma		Draft version
0.2	16-09-2022	Karishma	Karishma		Suggested some selections like key notes, screen validations and attributes to be added
0.3	17-09-2022	Karishma	Karishma		Suggested document format related comments like correction of version, adding one sections for open issues etc
0.4	01-01-2023	Karishma	Karishma		Suggested some changes like correct sequence diagram, changes in data design sections etc
1.0	05-01-2023	Karishma	Karishma		Baseline version



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1. Introduction:

1.1 Scope of the Document

- This section will cover details regarding scope of the document
- Low level design document will be at component level i.e., for website portal there will be one LLD

1.2 Intended Audience

- This section will cover categories of audiences who will be referring/reviewing this document

1.3 System Overview

- This section will capture overview of system application i.e for what system is being developed
- Who are the stake holders of system?
- What are other external Systems through which this will be interacting

2. Project Briefing:

2D barcodes (a group of barcodes the QR code belongs to) are comparable to common, one-dimensional bar codes as they are e.g. used on the product packaging at the grocery store. However, QR graphics are able to store much more data, they can include over 3000 characters on a very small space. To create one, the information gets encoded according to ISO/IEC 18004:2006 by a **QR generator** like ours. The high data density compared to simple barcodes, the licensing policy of the QR developer / creator Denso Wave plus the wide availability of reading software has helped the QR code to establish itself and pushed technically comparable 2D codes out of the market (see “What is a QR code” for more information on this topic). The most prominent use-case for QR codes is the area of mobile marketing. Because there is free QR code software to read QR codes for almost every smartphone with a camera (e.g. iPhone, Google Android, Blackberry, Symbian), QR codes are used as a link between offline media such as paper and websites. The user just needs to scan the code instead of typing long, unpleasant web addresses. However, a QR image can even be scanned and decoded with older mobile phone cameras and models without Internet access as QR code readers are available for free for less common and legacy platforms. But the intended use of QR codes and for devices without Internet access is mostly limited to the import of business contacts and address data (vCards), trigger phone calls or text messages (see also “Overview of the different QR code types and functionality”). In particular, QR code business cards are perfect to enable others an easy and typo-free import of your own contact details. Just print a vCard QR code on your business card.

3. Problem Statement:

Problem: when the QR Code was designed, it was too small or not of high enough quality. So when the QR Code was printed, the image now appears blurry and can't be scanned. It also detracts from the design of the total print material and deters customers.

4. Problem Solution:

Solution: Make sure to always leave enough space for the quiet zone. The ideal size would be if the quiet zone is at minimum four times larger than the width of your QR Code modules. When in original form, the modules are the black pixels that make up the QR Code (or also come in color when customized). The more data that you add to a QR Code, the smaller those pixels will become. Nevertheless, this is not a reason to reduce the quiet zone perimeter to compensate.

5. Objective of the Project:

Consumers want to better connect with their favorite brands. Want to automatically make it so that people who access your contact information on your website are more likely to save it to their mobile devices? Excellent! So does QR Code Generator PRO. The vCard Plus QR Code displays your phone number, email, and even directions to your office or store. And, with a 'save to phone' button, your details can slip into your customers' and leads' smartphone effortlessly. If you want customers to grow with your products and services over time, opt for the Social Media QR Code. This Code connects your

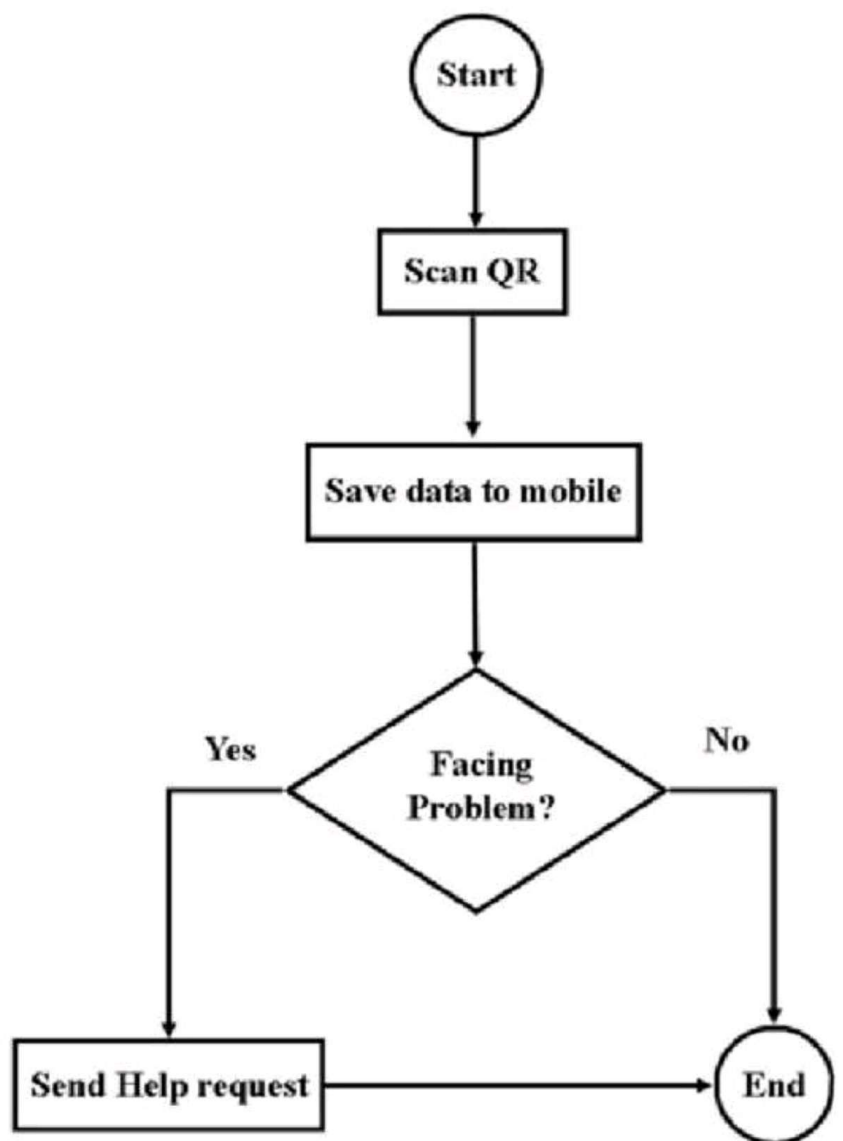
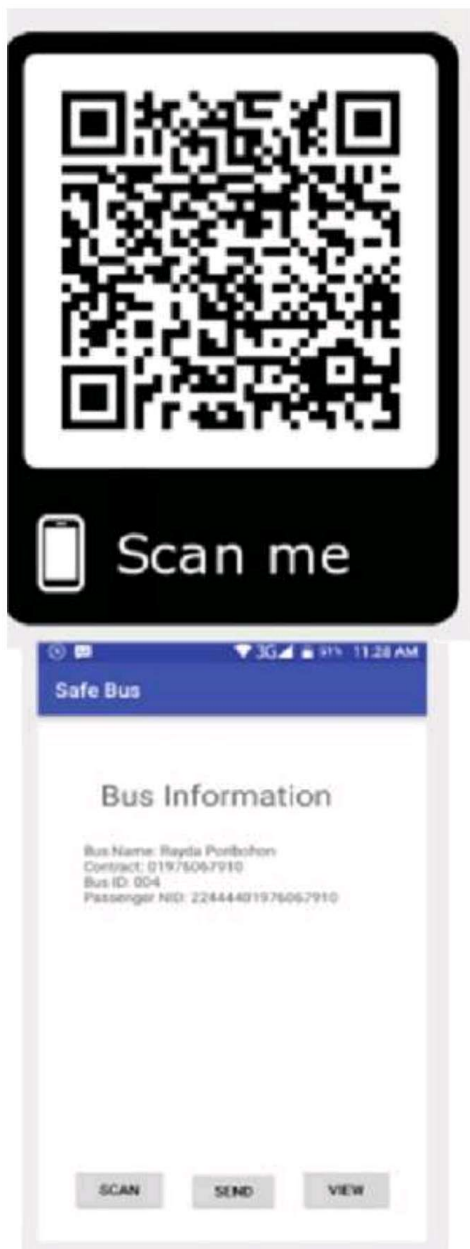


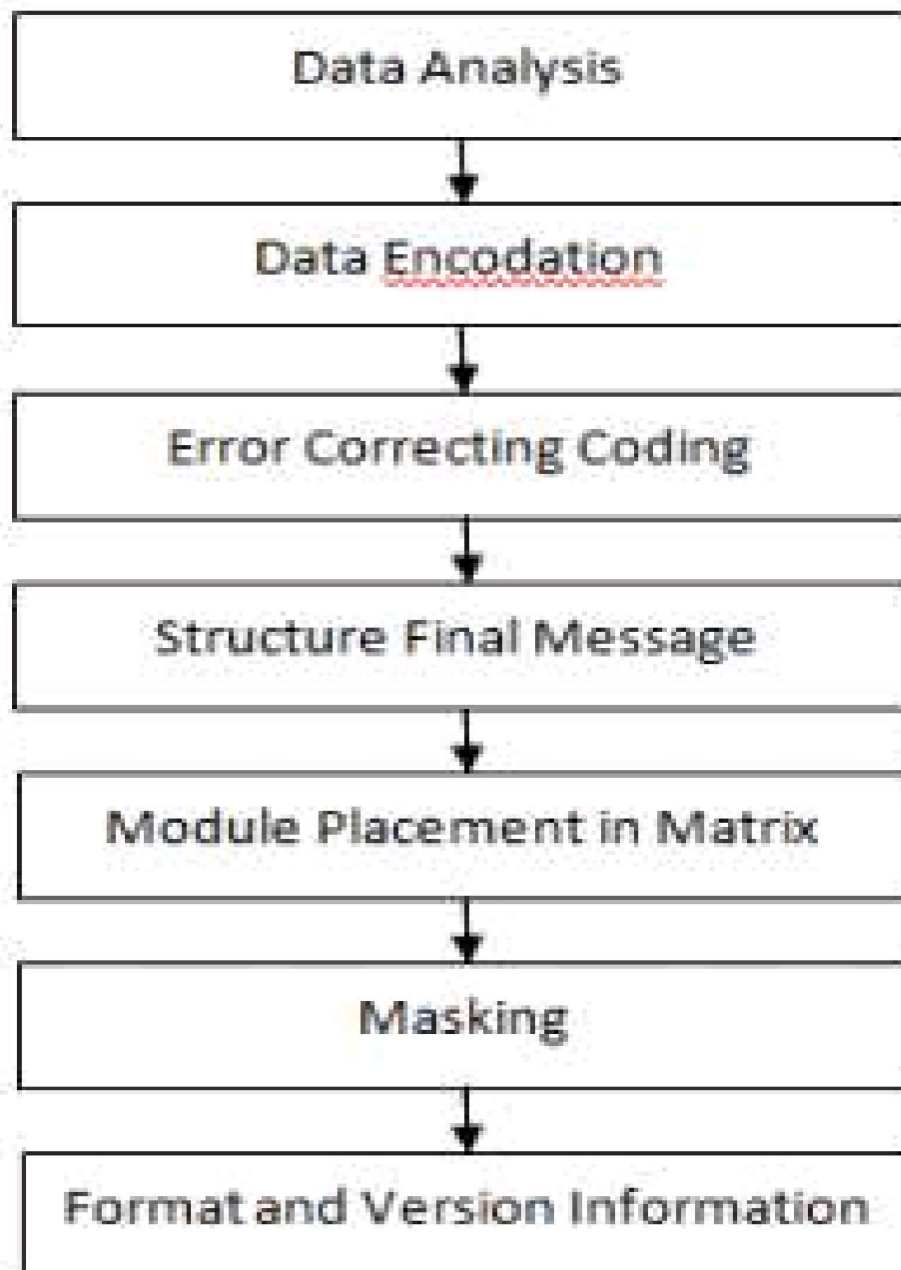
fans to your brand by allowing them to choose which social media platform they want to engage with you on

6.Scope of Project:

QR Code is capable of storing up to 4,296 characters, making them a viable tool for various industry verticals. A QR Code can be used for inventory management, mobile marketing, product packaging, contact tracing, and even for print advertising.

6. Block Diagram:





7. Requirements Gathering:

- Window 10 Operating system
- Visual studio software.
- Few Github Non copyrighted source codes.

8.Final Screenshot of Project output:

