

**VIDHYADEEP INSTITUTE OF COMPUTER & INFORMATION TECHNOLOGY**

# CERTIFICATE

This is to certify that the seminar , submitted for the Seminar entitled “**Low/No Code Development**” has been carried out by “DG-Estate” at BCA Department of Vidhyadeep Institute of Computer & Information Technology, Kim for partial fulfilment of BCA degree to be awarded by Veer Narmad South Gujarat University.

Place:- KIM

Date:-

Head of Department

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Internal Guide

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# Abstract

## **Background**

In recent years, Low-code development (LCD) is growing rapidly, and Gartner and Forrester have predicted that the use of LCD is very promising. Giant companies, such as Microsoft, Mendix, and Outsystems have also launched their LCD platforms.

## Aim

In this work, I explored two popular online developer communities, Stack Overflow (SO) and Reddit, to provide insights on the characteristics and challenges of LCD from a developers and Industry perspective.

## **Method**

I used two LCD related terms to search the relevant posts in SO and extracted many posts. Meanwhile, I explored three LCD related subreddits from Reddit and collected many posts from there too.

## **Result**

Findings show that LCD may provide a graphical user interface for users to drag and drop with little or even no code, the equipment of out-of-the-box units (e.g., APIs and components) in LCD platforms makes them easy to learn and use as well as speeds up the development, LCD is particularly favoured in the domains that have the need for automated processes and workflows; and developers have conflicting views on the advantages and disadvantages of LCD.

## Conclusion

Findings suggest that researchers should clearly define the terms when they refer to LCD, and developers should consider whether the characteristics of LCD are appropriate for their projects.

# What is Low/No Code Development

No-code implies that no hand-coding is necessary, while Low-code relies on no-code elements such as visual drag-and-drop components combined with some hand-coding.

Technically These two can be two different topics in their own, but because No code development isn’t that vast enough so here, we will talk about Low Code Development with little bit of No Code Development.

Firms prefer to choose low-code alternatives for fast, continuous, and test-and learn delivery. The survey performed by Forrester also shows that LCD platforms can accelerate development by 5 to 10 times. Moreover, these platforms also offer enterprises a more economical way to fulfil the market and/or enterprises internal requirements.

Although LCD is booming in industry, there is no clear understanding of LCD as well as its practices. To this end, we plan to explore the characteristics and challenges of LCD from the perspective of developers.

Research found that most developers tend to use low-code (e.g., “The coding effort is low”) to describe LCD. In other words, they think that the coding effort is low in LCD. The term drag and drop comes second, followed closely by visual programming.

Some developers also use pre-designed templates, non-professional programmers friendly, what you see is what you get (WYSIWYG), and business process to demonstrate their understanding and perception of LCD. A few others consider that LCD utilizes a graphical user interface to develop programs, and one use case is built automation to “automate unattended operations with minimal human involvement ”.

# Why Low Code Development

With the growth of the Internet and the wave of digitalization, there is a growing need for enterprises to make quick and resilient responses to changing market requirements.

According to the research company Gartner, the demand for information systems will increase five times faster than the ability to provide them by IT departments, because number of employees is not growing at a sufficient pace. Furthermore, recruiting software engineers has become increasingly difficult as demand is high and supply is low.

In order to solve the problems above and adapt to this rapidly evolving world, companies are looking for quicker and cheaper ways to meet their software needs. In response, low-code development (LCD) platforms have emerged with the promise that organizations can hire business professionals with no coding experience to build applications.

# History of Low Code Development

While the term “Low code development” is relatively new, the actual method it works is not that new.

<https://betterprogramming.pub/low-code-history-b756c095494f>