



Low Code Application Development Platform

Issue - 21, January, 2023



**Faculty of Computer Applications
& Information Technology
(UG Programmes)**

Message From Dean, FCAIT-UG



The present issue of DKOSMOS brings out information about Low Code Programming. Low Code Programming proves that "A picture is worth a thousand words". It is a visual approach to software development that enables faster delivery of applications through minimal hand-coding.

The graphical user interface and the drag-and-drop features of a low-code platform automates aspects of the development process, eliminating dependencies on traditional computer programming approaches.

Low code programming offers an opportunity to build applications with little to no coding experience.

A low-code model promotes rapid application development which is the need of the time. All the DKOSMOS issues creates an opportunity for BCA, iMSc.IT and iMCA students to get familiar with several new technological advancements. Moreover, the magazine provides a glimpse of various academic, technical, and cultural activities that are carried out at FCAIT, GLS University. In the post pandemic world we rejoiced with the celebration of days, the cultural event - "SHADEZ" and Shri I. M. Nanavati Sports Meet Celebration – 2022. We have also initiated a literary club named LITERARY Buzz which ignites the creative minds of campus.

Throughout the academic terms students get exposure to learn beyond curriculum by attending several seminars on cutting edge technologies as well as we inspire students to participate in various literary activities.

-- Dr. Tripti Dodiya

From Editorial Desk

Dear Readers,

“There are just not enough developers to go around, so by going low-code, you can get a lot done with ordinary developers that you can afford.”- John Rhymer

Technologies are meant to make life less complicated, smooth and closer to each other, and we are glad to present the 21st issue of our half-yearly magazine “D-Kosmos” with a theme “Low Code”. Low code takes the leap from verbal to visual in a very interesting manner. Low code helps developers to build apps faster with the features like visual modeling, reusable components, collaboration tools, scalable environments, data integration and application lifecycle management.

Along with this, D-Kosmos also brings out glimpses of various cultural and technical events organized by FCAIT- UG for the holistic development of students. Many seminars, workshops and innovative events like Tech-Talk, Code-Express were conducted to prepare students for industry experience. The cultural event “SHADEZ” gives students a platform to showcase their creativity by participating in various literary and fine arts competitions. Students enthusiastically participated in the fun fair and days celebration.

We welcome your suggestions and remarks via email, so please get in touch for reviews at dkosmos@glstica.org.

Wishing you all a happy reading of D-kosmos!

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Introduction

Low-code automation is a means of automating business processes that requires little coding, making it easier for non-technical business users to get hands-on with automation projects and decreasing reliance on developers and software engineers. Rather than relying on complex code to automate business processes, users can implement visual tools, such as model-driven application design with drag and drop features. Forrester Research describes low-code automation platforms as “Application development platforms that enable rapid application delivery with minimal hand-coding, and quick setup and deployment.”

“Low-code platforms can help development teams work faster and increase enterprise-wide software production by empowering “citizen” developers.” The low-code market is set for rapid growth. Gartner predicts that low-code application building will make up more than 65% of all app development functions by the year 2024 and with about 66% of big companies using a minimum of four low-code platforms.

Benefits of low-code automation

Ease of use – As users do not require an in-depth knowledge of software development, it’s easy to get the grip on low-code and can be used throughout the business, without relying on skilled developers.

Empower citizen developers – The software can be used enterprise-wide without the need for IT intervention, which means users can create their own automated processes to aid their work.

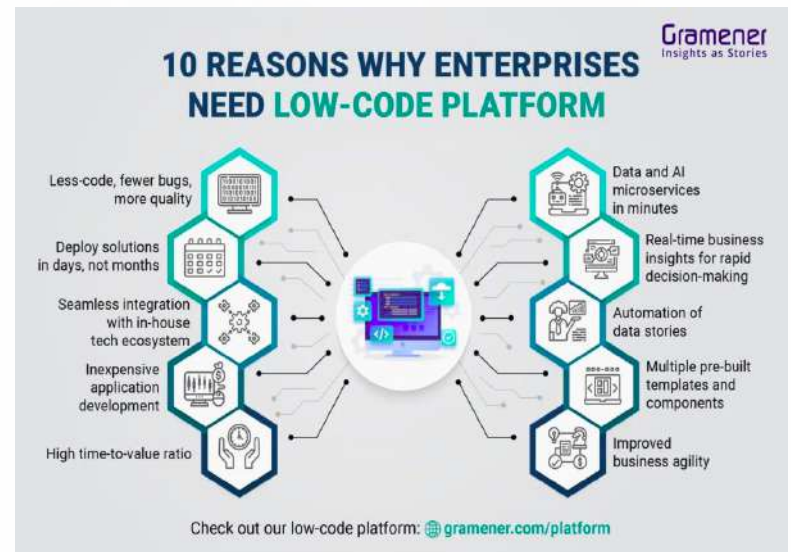
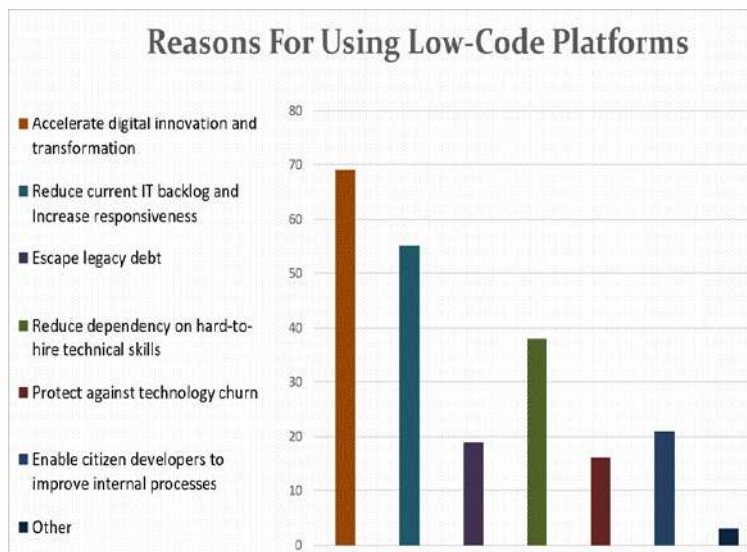
Save money – Costs can be saved on initial training, and money doesn’t need to be spent on hiring skilled developers who demand a high salary. Additional cost saving can also be achieved as it accelerates time of market and solid return of investment.

Improve productivity – Intuitive features like drag and drop interfaces means it takes less time to build processes and allows users can see results fast.

Ensure best practice and compliance – Templates play a large role in low-code automation, so providing best practice for users to follow when building and automating processes means they will be created in a compliant manner.

Improve agility – The simple approach for building and amending processes means you can make agile changes to process without having to worry about modifying complex code. This helps to keep up with regulatory changes, adapt to market changes or respond to customer needs.

The following graph will explain the importance of low-code development tools. As per the research performed by frevvo, it accelerates the digital transformation at 69% and 40% it is responsible for reducing the dependency of high technical skills.



How does cloud computing support low-code automation?

Cloud-based platforms have supported a recent surge in the use of low-code platforms such as the secure, yet flexible solution that allows users to collaborate across the organization. It's easy for citizen developers to gain access to the software, and it can be scaled up or down as required with regular updates to ensure users are always using the latest version.

A key benefit of using the cloud is the ability to spin up and test new services. And if the solution doesn't work, it can be turned off without worrying about wasting money on physical infrastructure to support the services that may or may not work. This means you can experiment with new solutions in low-code, supported by low-cost and low-risk deployment on the cloud.

Applications Built Using Low-code Tools

Here are some of the low-code examples of successful applications built using low-code tools –

1. Consumer-Facing Apps

- **Bendigo Bank:** Bendigo, one of Australia's largest banks, boasts of a whopping customer base of 1.6 million. The bank was looking for solutions to break down silos and connect the various disparate portions of its operations into one unified, exceptional customer experience. As a solution, it is decided to leverage low-code development and adopted Appian as their enterprise BPM platform. They rolled out a slew of 23 mission-critical customer-focused enterprise applications and additional citizen developer apps.

- **Dallas Fort-Worth International Airport:** Known to be the world's 4th busiest airport in terms of traffic, Dallas Fort-Worth International Airport was looking to improve customer experience and achieve excellence in their operations. They rolled out 18 new apps within 9 months using the low-code approach with an average of one new app every two weeks using Appian's low-code app development platform.

2. Enterprise-Grade Apps

- **Optum (UnitedHealth Group):** A part of UnitedHealth Group, a diversified health and well-being company, Optum deals with providing information and technology-enabled health services to its parent organization. The critical challenge that Optum faced was with its claims-processing applications. They wanted to streamline the IT and business coordination to offer quality services to their clients. The company chose a low-code approach to build various apps and completely revamp their claims processing. The low-code development approach's multiple features helped all the stakeholders at Optum to collaborate seamlessly and work on new applications iteratively.

- **Bswift (CVS Health):** A part of CVS Health, Bswift, offers cloud-based software and services to streamline HR, benefits, and payroll administration for employers and public and private exchanges nationwide. The company was primarily looking for a robust environment of innovation without any loss of integrity. The company adopted low-code primarily for its speed and customizability and went with OutSystems because it built the platform to support C# on the Microsoft .NET framework. Going with a low-code platform helped the company deliver continuous improvement without incurring any additional legacy debt and quick turnaround time.

3. Internal Process Automation

- **The Salvation Army:** Renowned as both a church and an international charitable organization, the salvation army is a pretty big organization spread across various zones globally. They were looking to build workflow-centric applications that leveraged Microsoft Corp. technologies without increasing their expenses. They used a low-code application development approach for most of their applications and enjoyed the benefit of a substantial reduction in the application development lifecycle.

- **Sprint:** Sprint used the Appian Platform and lean startup techniques to drive various digital experimentation in their application development process. This allowed Sprint to introduce non-expensive solutions to experiment with unique digital ideas.

Challenges of low-code development

While low-code approaches and tools make compelling arguments for enterprise use, low-code also presents some significant disadvantages:

Knowledge beyond the tools: Low-code is not a way to skate around skilled staff and a well-designed infrastructure apps built with reliable code require knowledge of enterprise software development and business practices. Enterprises that ask individuals who lack programming knowledge to take on enterprise-level programming tasks can actually spend more to fix bad code than if they'd crafted good code from the start.

Inefficient and unoptimized code: When code is abstracted into generic, reusable components, it can create underlying code that is bloated and excessive for the actual task at hand. It's easy to lose many of the potential optimizations that could reduce software size and improve performance. Quality, handwritten code can address such coding problems with efficiency and even elegance.

Complexity under the hood: Low-code's promise of simplicity is true when the resulting code functions as expected. What if it doesn't work or performs poorly? Is the application secure and consistent with the organization's compliance strategy? Someone within the organization must possess a comprehensive knowledge of what's happening under the hood of the low-code platform to understand underperformance, address errors or enforce software security and other coding standards.

Limited use cases: Low-code platforms effectively solve some business programming problems, but not all. It may stumble with many complex tasks, or require so much customization and integration that conventional software development approaches and tool sets are the better choice.

Potential vendor lock-in: When a team uses a low-code tool to create an app, the tool may produce code that is poorly documented and difficult to maintain outside of the tool. Evaluate a low-code tool's ability to export, access and edit code using other editors and software development tools.

Low-code Use Cases and Applications

Once IT and the business-side identify and align the business goals with clear IT requirements, low-code projects can fill an array of potential opportunities. Common low-code applications include the following:

Web portals: Portals are common and popular means for customers to interact with businesses, find services or products, get quotes, check the availability of resources, schedule work or place orders, and make payments. Low-code can help to quickly create an array of portals with common front ends or user interfaces instead of manually coding HTML and back-end components.

Mobile apps: With low-code, a business can build a wide range of apps for mobile devices that present data and business interactions to customers. For example, an insurance company's mobile app lets customers file claims and upload documentation of an incident, such as collision photos, from their smartphones. Today's low-code platforms can assemble apps for both Android and iOS devices from the same project.

Line-of-business systems. Businesses rely on LOB systems and apps to conduct everyday tasks. For example, a mortgage lending company adopts a system to organize mortgage documents and paperwork, integrate appraisals, and conduct credit checks and financial analyses of borrowers. Businesses often buy such a platform from a vendor or build it in-house using traditional coding processes. Low-code brings a third option to help businesses build and add adaptive and scalable applications, and even migrate them to single or multi-cloud deployments.

Digitized business processes: Traditional paper- or spreadsheet-based business processes are time-consuming and error-prone. Businesses can use low-code to create applications that gather required information, pass the information and requests through the company's approval process, deliver results to requesters and integrate with conventional business systems, such as ERP. For example, low-code can be used to streamline a capital request application.

Microservices applications: A microservices architecture creates highly scalable applications from a series of independent components that communicate through APIs across a network. The components can be developed, and

maintained independently, which enables faster development and easier updates with less regression testing than conventional monolithic applications. Low-code is a viable platform for microservices-based components, to quickly create and re-imagine core applications for greater performance and stability, and to help to translate traditional legacy code into modern, agile microservices applications.

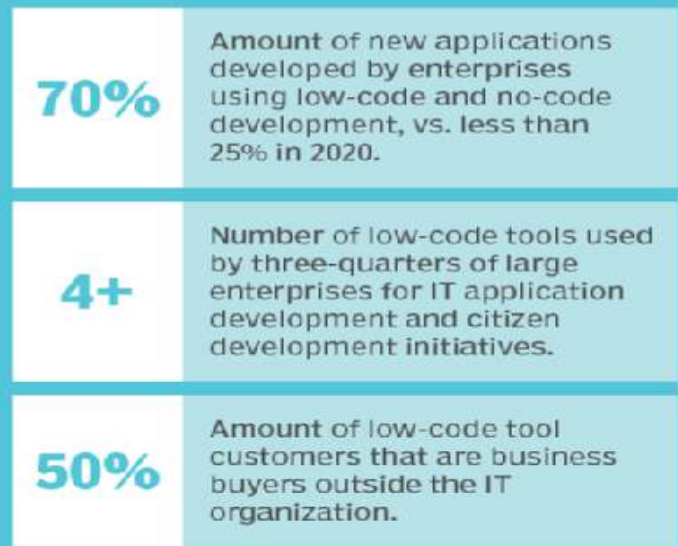
IoT-based apps: Businesses grapple with ways to derive meaningful business data from the volumes of sensors and real-world devices that make up the internet of things (IoT), and to monetize the resulting data or services. Businesses can use low-code to build apps and functions that integrate IoT endpoints and collect data, send IoT data through back-end computing infrastructures, and provide resulting data requests to internal or external customers. For example, a low-code horticultural application might use moisture and temperature sensors – combined with data about growing cycles and conditions – to automatically control indoor lighting and irrigation for cultivated crops.

The future of low-code and the low-code

Low-code development use cases in specific industries

INDUSTRY	REQUIREMENTS	HOW LOW-CODE HELPS
 Education	<ul style="list-style-type: none"> Address fluctuating enrollments, evolving educational strategies and assessments, and hybrid and remote learning 	<ul style="list-style-type: none"> Build and rebuild applications that measure learning outcomes as variables change Integrate various digital platforms, such as enrollment management platforms and learning management systems Help schools manage reopening amid the pandemic, e.g., template-based websites for COVID-19 information
 Healthcare	<ul style="list-style-type: none"> Make data more accessible to patients on more platforms Adhere to stringent security requirements 	<ul style="list-style-type: none"> Allow developers to build customer-facing apps that integrate with enterprise systems on the back end so that patients can access information more easily Simplify compliance requirements by generating code that is designed to conform with frameworks like HIPAA out-of-the-box
 Financial services	<ul style="list-style-type: none"> Allow customers to easily monitor financial accounts and data User-friendly interfaces must work across devices and platforms (PC, mobile and web) 	<ul style="list-style-type: none"> Developers use low-code to build integrations and UIs that tie into complex or legacy back-end systems Updating limited-functionality customer apps is easier than updating extensive back-end systems
 Retail	<ul style="list-style-type: none"> Adapt to an increasingly digital world with apps that serve customers and also manage back-end operations 	<ul style="list-style-type: none"> Develop and deploy apps for order processing, inventory and online order fulfillment Avoid dedicating or hiring a large team of developers to build apps using traditional methods Low-code tools in BPM platforms can help retailers build the software they need at a lower cost

Low-code projections, by 2025



The future for low-code development and platforms will largely build on the trends and behaviors that shaped 2020 due to the COVID-19 global pandemic, which has placed a tremendous strain on development budgets, personnel availability and team dynamics. Many businesses have struggled to develop apps, portals, web forms and automated workflows because employees are now remote and less available. Gartner predicted that the majority of application development will be low-code in the next several years.

Low-code helps businesses fill this gap and build apps for specific business purposes with a wider range of IT and business participation. Low-code and no-code represented less than 25% of all application development in 2020 but will account for 75% of it by 2025, according to analyst firm Gartner. Over that same timeframe, Gartner projected that annual revenues for low-code and no-code platforms will surge from a little over \$9 billion to nearly \$30 billion.

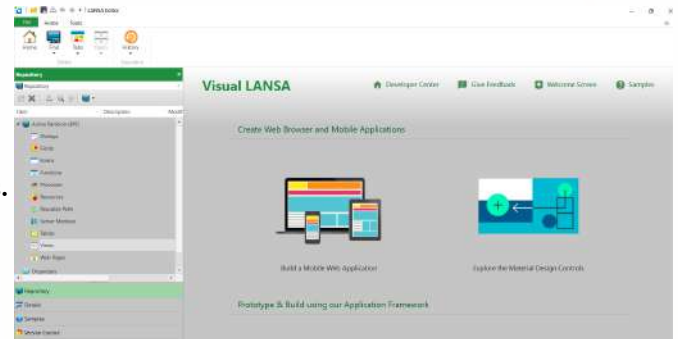
As low-code platforms evolve with more speed and automation, the need to ensure proper coding standards and manage defects (testing and bug fixes) will drive additional testing capabilities and push test automation deeper into the CI/CD pipeline.

Ultimately, the developer community must embrace the reality of low-code and low-code business strategies. Developers must learn low-code platforms and work more closely with low-code practitioners to extend and customize low-code components. This requires improved communication and collaboration skills, and the ability to interact with business personnel and even "citizen developers" to build future enterprise applications.

10 Best Low-Code Development Platforms



LANSa's low-code development platform accelerates and simplifies the creation of enterprise apps while making your development team more productive. LANSa puts you back in control.



Features:

- Powerful low-code IDE to create desktop, web and mobile apps.
- Build apps faster, easier and at a lower cost than traditional methods.
- Extensive testing, deployment and integration controls.
- In use by several thousand companies around the world.
- Ability to write code inside the IDE.



Enterprises use Quixy's cloud-based no-code platform to empower their business users (citizen developers) to automate workflows and build simple to complex enterprise-grade applications for their custom needs up to ten times faster. All without writing any code. Quixy helps eliminate

manual processes and quickly turn ideas into applications making business more innovative, productive, and transparent. Users can start from scratch or customize pre-built apps from the Quixy app store in minutes.

Features:

- Build the app interface the way you want it by dragging and dropping 40+ form fields including a rich text editor, e-signature, QR-Code scanner, Facial Recognition widget, and much more.
- Model any process and build simple complex workflows be it sequential, parallel and conditional with an easy-to-use visual builder. Configure notifications, reminders, and escalations for each step in the workflow.
- Seamlessly integrate with 3rd party applications through ready-to-use connectors, Webhooks, and API Integrations.
- Deploy apps with a single click and make changes on the fly with no downtime. Ability to use on any browser, any device even in offline mode.
- Live actionable Reports and Dashboards with the option to export data in multiple formats and schedule automated delivery of reports through multiple channels.
- Enterprise-ready with ISO 27001 and SOC2 Type2 Certification and all enterprise features including Custom Themes, SSO, IP filtering, On-Premise deployment, White-Labeling, etc.





Studio Creatio is an intelligent low-code and process management platform with out-of-the-box solutions and templates. Creatio Marketplace has ready-to-use apps and solutions that will extend the platform functionality.

Features:

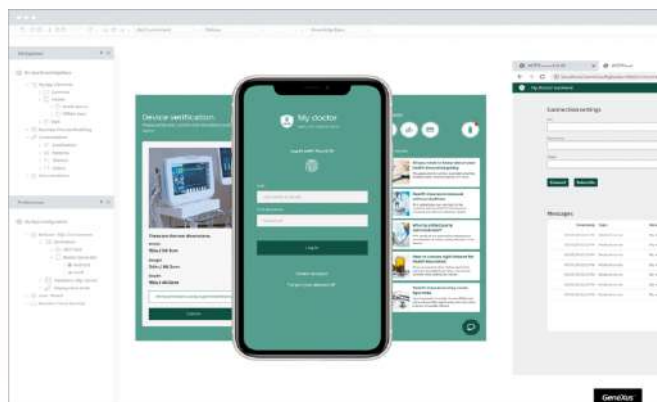
- BPM engine to flexibly manage structured and unstructured processes.
- Low-code/no-code automation to build configurative solutions effortlessly.
- AI/ Machine learning tools to accelerate business processes, make data-backed decisions, and simplify the analytical work.
- It provides a leading UI for visual modeling.
- You will be able to build various types of apps through App wizard.
- It has features for security and administration.
- It provides features to streamline customer engagements and accelerate service delivery.



GeneXus uses mostly declarative language to generate native code for multiple environments. It includes a normalization module, which creates and maintains an optimal database structure based on user views.

Features:

- AI-based automatic software generation.
- Multi-Experience apps: Model once, generated for multiple platforms (responsive and progressive web apps, mobile native and hybrid apps, Apple Tv, chatbots & virtual assistants).
- Highest flexibility: The largest number of databases supported in the market. Interoperability capabilities for system integrations.
- Future-proof: Evolve systems over long periods of time and change between technologies and platforms automatically.
- Business Process Management Support: Digital Process Automation through integrated BPM modeling.
- Deployment flexibility: Deploy apps on-premises, in the cloud, or in hybrid scenarios.
- Application security module included.

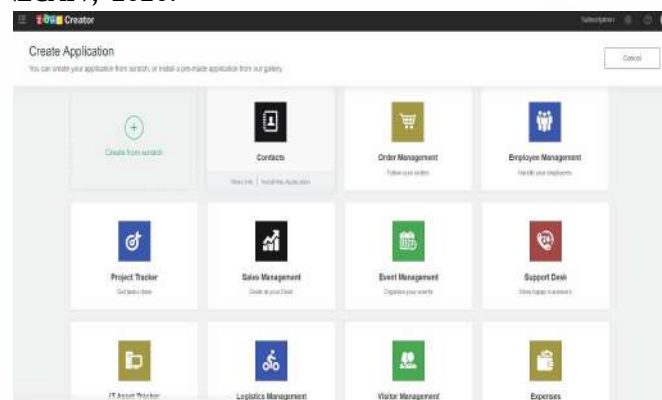


Cross-platform app builder helps to build native mobile applications faster. Create apps on the web, publish and use them on your iOS and Android devices with multi-platform access.

With over 7 million users worldwide and 6 million apps, our platform is powerful and flexible to adapt to your business needs. Zoho Creator has been featured in Gartner Magic Quadrant for Enterprise Low-Code Application Platforms (LCAP), 2020.

Features:

- Create more applications with less effort.
- Connect your business data and collaborate across teams.
- Create insightful reports.
- Gain instant access to mobile apps.
- Uncompromising security.

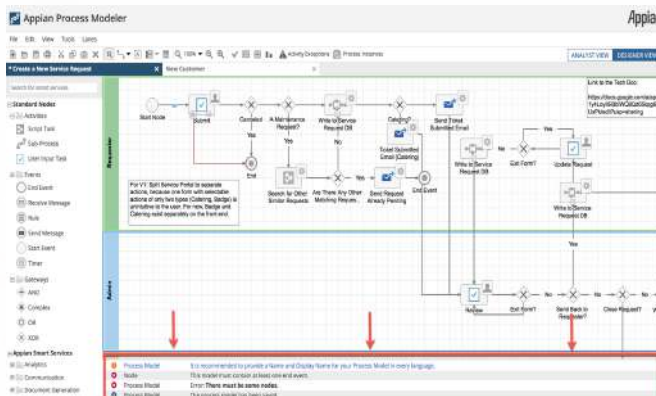




Appian’s intelligent automation platform will help organizations to build smart applications that will improve the business, customer engagement, and worker efficiency. It will ensure the security of your critical applications.

Features:

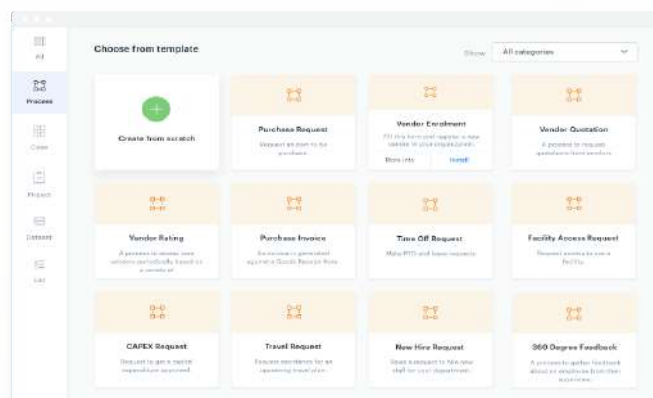
- Drag and Drop tools.
- It provides native AI services.
- It also offers no-code integration to AI/ML platforms through Google Cloud, Amazon AWS, and Microsoft Azure.
- Without writing any code, you will be able to integrate enterprise data, systems, and web services



KISSFLOW- BPM & Workflow Software will allow you to create custom Apps and automate business processes. It provides more than 45 pre-installed apps to create your own business applications.

Features:

- It completely eliminates the need for coding.
- Drag and drop the facility to add and edit fields.
- Tasks and logic can also be built using the drag and drop facility.
- It will allow you to digitize your forms and requests.



Mendix provides the platform for building applications. It supports application development for any device. It has an option of private cloud, public cloud, and on-premises deployment. It also provides the facilities of automated backups and horizontal scaling with the Enterprise edition.

Features:

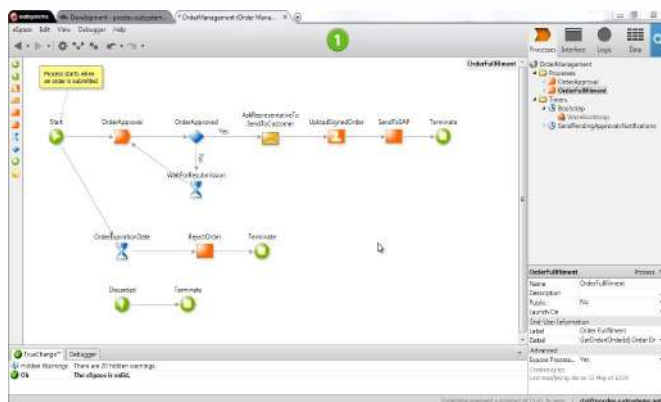
- Agile project management.
- Visual modeling tools.
- Reusable components.



OutSystems will allow you to develop the applications at an unbeatable speed. It can be used for building Mobile Apps, Web Apps, and Enterprise-Grade applications.

Features:

- You will experience error-free deployment for your apps, in cloud or on-premises.
- You can get real-time performance dashboards.
- You will be able to deliver scalable applications.
- Offers the latest security for your applications.
- Your applications could be integrated with any system.





Salesforce Lightning provides the platform to build mobile apps with advanced security. Pro-Code tools will allow you to use any programming language for app creation. It offers features like embedding AI & IoT and integration with Salesforce & third-party data.

Features:

- With No-Code builders, it will be easier to build mobile apps.
- Instant app creation from a spreadsheet.
- Lightning Process Builder will help you to build complex workflows.

Low Code Vs Traditional Coding

LOW CODE vs TRADITIONAL CODING

Skillset

- Traditional coding offers various tools/functions to create highly complex apps
- Low-code/no-code platforms don't have an array of tools/functions but allow hasslefree app development

App Quality

- High bug occurrence due to the complexities/technicalities involved in custom application development platforms, making it difficult for users
- Enterprise low-code/no-code platforms generally don't have bug-related issues

Cost

- Traditional development has high hiring and maintenance costs
- Low-code platforms are way cheaper as you pay to access a service, not develop it

Agility

- Less agile due to complicated configuration system codes, making it time-consuming to learn
- Low-code platforms are easy-to-use with their drag and drop features

Maintenance

- Traditional platforms need in-house or third-party development team
- Low-code platforms are managed and run by the company that owns the platform

LOW CODE vs TRADITIONAL CODING

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SHADEZ

SHADEZ is an event which is organized by the students and for the students. Every year students eagerly wait for this time and Shadez – 2022 was nothing different. The annual cultural fest, this year was organized on 29th and 30th December, 2022 at our college premises. Various events such as Poetry Writing, Poster Making, Rangoli, Mehandi, Singing, Solo-Dance, Group-Dance, Debate, Instrumentation, were held simultaneously. The two days fest was attended by more than 250 students and more than 100 participants have participated in 12 different competitions. The creative vigour of the students was worth witnessing for everyone. The hidden poets, the artists and exceptional speakers among the students were discovered. The students volunteered to decorate the campus and transformed it into an artistic canvas. The event was a successful one with marvellous dance performances and few even performed again on the request of the audience (mostly students). The prize distribution was held in the University auditorium and the students cheered up for their friends. The event showed the vigour of the youth and how teamwork is manifested.



DAYS CELEBRATION

College days are not only about studies, but also about creating lifelong friendships. Keeping this in mind, the institute encourages students for various activities. The students celebrated various days from 26th to 30th December 2022. They dressed up as various famous characters. The characters that we watch on screens came live in front of us as the students acted their look on the first day. The second day was all about traditional attires. The campus turned into a rainbow with all the beautiful colours of the traditional dresses. And they wore white dresses for the signature day making memories for lifetime. The students enjoyed the music and danced their hearts out during the celebration. Apart from that they also organized fun fair during the celebration. The variety of food and beverages, the management of stalls were exceptionally handled well by the students. The fun fair also included instant resin art, hair styling and other fun events too. The fun fair was a great success where the students showcased their marvellous entrepreneurial skills.



CWDC

The Collegiate Women's Development Committee organized a special session on gender sensitization entitled "The Social Construction of Gender Roles" was held on 17th December 2022. Our key speaker Ruchika Kakkad, an advocate from Gujarat High Court enlightened the students about gender roles, social conditioning. She also discussed the laws related to all the genders. This helped the students to be aware of the laws of our country, their own rights irrespective of gender. With the participation of both the boys and girls of our Institute, the event was a success. The students learned about gender discrimination, the role of the youth and various laws which can support in fighting those discrimination. This session not only discussed gender sensitivity but also discussed the story of both the genders. The talk ended with the query session of students.

Another special session on "Mental and Physical Wellness of Women" was organized on 22nd December, 2022. Our key speaker Dr. Hetal Patolia from SGVP Holistic Hospital, Asian Bariatrics created a safe space for all the young girls of our Institute. She was able to address the crowd with such discussions about women's health and its relation to mental health. She specifically focused on what kind of vaccination can be taken during each stage of life to avoid various diseases. Her talk celebrated womanhood in every sense as it spoke about standing beside our mothers and sisters and how we can contribute towards a holistic development. The students were able to ask all the queries that they had in their mind freely and usually refrain from asking. She discussed youth related issues with the young crowd as well. She discussed the importance of a balanced diet and exercise in relation to women's health and the changes that can be made in order to improve our health. The talk ended with the query session of students and also participation in discussing many issues faced by the women of the generation and the solutions to them.



Shri. I. M. Nanavati Sports Meet Celebration-22

Every year GLS students of various departments participate with great enthusiasm in the ‘I M Nanavati Intercollege Sports Celebration’ which was held between 18 to 20 December 2022. Students participated in various indoor-outdoor sports games such as football, Kabaddi, Volleyball, Badminton (Singles/Doubles), Cricket, Chess and Carrom. Students also participate in Athletics like Running races, Shot put, Javelin throw, Discus throw, Long jump, Triple jump and Relay races. Students from BCA, iMSc.IT and iMCA programmes participated and won prizes.

FCAIT Sports teams’ Achievements:

- Runner up trophy in Kabaddi won by BCA team.
- Silver medal in Long Jump won by Naman Shah from BCA.
- Gold medal in Discus Throw, the silver medal in Javelin Throw and the silver medal in Shot Put won Ridhhi Gondaliya from BCA
- Bronze medal in Carrom won by Anandhu Anil and Rathod Sumit from iMCA.



External Achievements in Sports

- Monil Shah (FYIM Sem-2), Rajendra Desai (FYIM Sem-2) and Hit Ajudiya (SYIM Sem-4) represented GLS University in West Zone Inter University Volleyball Match, Nanded, Maharashtra.
- Monil Shah of FCAIT-UG participated as a member of the winning team at Volleyball Premier League (VPL) organised by Ranip Shooting Tournament, and emerged as a runner up in Shooting Event held by Sabarmati University and by Vishv Umiya Foundation, Ahmedabad respectively.

Seminars and Workshops

Technical Seminars are arranged by FCAIT-UG to provide students knowledge apart from their regular curriculum. A seminar on Vedic mathematics and Communication Skills was conducted by Mr. Chandramauli Bhatt (BE, MBA Symbiosis-Pune) CEO of Renaissance Education and Mr. Sunil Bajaad (BE, MBA IIT-Roorkee) Course Head of Renaissance Education. Apart from that various seminars on different trending topics of IT such as SAP, Cyber Security & NMAP, Swarm Intelligence, NLP, Artificial Intelligence, Malware were conducted by the professors of FCAIT-UG.



TechTalk

Tech talks organized by FCAIT-UG are a way to ignite the young minds with creative ideas regarding their field. It generates interest and urges the students to participate and find the areas that they are passionate about in their subject.

The techtalk was organised on the concept of “Hacking” on 14th December that explored the field of Cyber Security and its applications in context of Hacking. The talk was organised and executed by the students of FCAIT discussed the components of Hacking, its types and applications. Further, the talk explored the different aspects of Hacking and Cyber Security by Industry Expert Mr. Darshan Jain, Data Engineer - Fractal Analytics. The students also talked about latest hacking techniques, its prevention and protection followed by a practical demo.

A techtalk was organised on the concept of “Cryptocurrency & NFT” on 21st December that explored the field of blockchain and its applications in context of Cryptocurrency & NFT. It was organised and executed by the students of FCAIT discussed the components of Cryptocurrency & NFT and its concepts. Further, the talk explored the different types of Cryptocurrency and how it impacts NFT. An industry expert, Mr. Akshat Shah, Blockchain Engineer - Openxcell Technolabs enlightened the students on the topic.



Code Express#

Under CODE EXPRESS, students explore various innovative programs based on trending programming languages. The participation of the students gives them an opportunity to showcase their expertise in a friendly yet spirited environment to develop their coding skills.

Code Express 13 was organized on Java Programming on 22nd September 2022, in which students were inspired to discover their inner creative vigour in the programming of JAVA and faculties were enlightened by the vast knowledge of students. The Winners from BCA course were Naitik Bagia, Priten Shah and Divyansh Mehta. The Winners from iMSCIT course were Yatharth Mehta, Vithalani Darshan and Rathod Gaurav.

Code Express 14 was organized on C Programming on 10th October 2022, in which students were inspired to learn interesting things about C programming and the students thoroughly enjoyed learning the new things about this topic and also shared their own knowledge about the same.

The Winners from FYBCA course were Kashvi Gandhi , Abhay Polara and Shah Neel. The Winners from SYBCA course were Faiz Ghanchi, Yash Patel and Shubham Khatang . The Winners from TYBCA course were Shivam Brahmkshatriya and Aayush Gajjar. The Winners from FYiMSCIT course were Heet Vakharia and Patel Honey. The Winners from SYiMSCIT course were Vithalani Darshan and Shaikh Mohammadtofik. The Winner from FYiMCA course was Poria Milan.

