# 

### Major Project

### 20MCA41

# “Development of Custom Application for Product Lifecycle Management”

# Submitted by

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### 1RV21MC067

### Under the Guidance

### of

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### *Submitted in partial fulfillment of the requirements for the award of degree*

### *of*

### MASTER OF COMPUTER APPLICATIONS

**2022-2023**

**RV College of Engineering®**

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**CERTIFICATE**

Certified that the project work titled Development of Custom Application for Product Lifecycle Management carried out by Nithin, 1RV21MC067, a bonafide student of RV College of Engineering®, Bengaluru submitted in partial fulfilment for the award of Master of Computer Applications of RV College of Engineering®, Bengaluru affiliated to Visvesvaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

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**DECLARATION**

I, **Nithin**, student of fourth semester MCA in **Department of Master of Computer Applications,** RV College of Engineering®, Bengaluru declare that the project titled **“Development of Custom Application for Product Lifecycle Management”** has been carried out by me. It has been submitted in partial fulfilment of the course requirements for the award of degree in **Master of Computer Applications** of RV College of Engineering®, Bengaluru affiliated to Visvesvaraya Technological University, Belagavi during the academic year **2022-23**. The matter embodied in this report has not been submitted to any other university or institution for the award of any other degree or diploma.

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**ABSTRACT**

A specialised software solution specifically created to meet the demands, processes, and commercial goals of a manufacturing organisation is known as custom application for PLM (Product Lifecycle Management). By fostering cooperation, increasing data accessibility, and improving process efficiency, it plays a significant part in simplifying and optimising product development processes. A customised PLM application gives businesses the tools they need to manage product data efficiently, make informed decisions, and gain a competitive edge on the market, fostering innovation and success throughout the entire product lifecycle. These features include CAD integration, quality assurance management, and customised reporting.

The modules which are present are Document Management: Manage product-related documents such as specifications, drawings, and user manuals. CAD Integration: Allows for seamless connection with CAD software, making it easier to import, convert, and visualise CAD data for collaborative product design and synchronisation, improving product quality and speeding up development. Through inspections, audits, and non-conformance control, quality assurance ensures product quality and compliance, making it possible to quickly identify and address problems. This increases customer satisfaction and promotes continual development. Report & Analytics: Provides users with in-depth reports and visualisations, editable templates, and data aggregation tools for strategic planning, process optimisation, and informed decision-making. This aids in the effective creation of products and the success of businesses.

The outcome of the custom application will be specific to the goals and objectives of the organization and the application. However, some potential outcomes of the application could include Improved Productivity, automation, and streamlining of product-related processes, resulting in increased productivity and efficiency for the organization. Improved Data Management: The application can provide better management of product data, including CAD data, and documentation, resulting in improved accuracy and up-to-date information. Overall, the application provides numerous benefits to an organization, depending on its specific requirements and objectives. The outcome of the application can lead to improved efficiency, quality, and compliance, resulting in increased profitability and competitiveness in the market.

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