

Body Part Implant Dashboard for Real-Time Monitoring and Reporting

Riddhi Gadewar¹, Pranjal Patil², Sakshi Dhakade³, Gaurinandan Joshi⁴, S. N. Khandare⁵

Department of Information Technology^{1,2,3,4,5}

Shri Sant Gajanan Maharaj College of Engineering, Shegaon, Maharashtra, India

riddhigadewar5@gmail.com, pranjalpatil424@gmail.com, dhakadesakshi2001@gmail.com,

gaurinandanjosshi14@gmail.com, snkhandare26@gmail.com

Abstract: *Our innovative platform is revolutionizing the field of medical implants, harnessing the power of 3D printing to deliver unparalleled levels of customization, accuracy, and accessibility. It functions as an all-in-one online ecosystem that simplifies the process of obtaining custom 3D-printed implants for patients and healthcare providers. At its core, the platform features a user-friendly interface, allowing users to explore a diverse selection of medical implants tailored to individual needs, including orthopedic devices and dental prosthetics. The ordering process is straightforward—users can select implant specifications, upload medical data, and place orders through a secure payment gateway for safe transactions. The platform's integrated tracking system provides real-time updates, allowing users to monitor the progress of their orders from production to delivery. Healthcare professionals' benefit from a dedicated portal where they can submit custom designs, track orders, and communicate with experts. The platform also offers comprehensive customer support and post-implantation care resources to ensure a seamless experience. By embracing 3D printing technology, our platform is transforming healthcare delivery, paving the way for personalized medicine, and reshaping the future of medical implants. Join us in this journey towards a more accessible and patient-focused healthcare system.*

Keywords: 3D printing, medical implants, customization, secure transactions, healthcare providers, order tracking