

## A Short Note on Designing Healthcare Dashboards: An Architectural Framework

Sayed Rouhani\*

Department of Civil Engineering, Kakatiya Institute of technology and science, India

### Introduction

In today's world, fierce competition reigns supreme in a variety of industries. Organizations' senior executives and middle managers must make decisions faster and more correctly than ever before. It is self-evident that obtaining quick and correct knowledge is critical for decision-making, and as a result, useful tools such as management dashboards are included in company IT roadmaps. By recognising trends, patterns, and irregularities in data, dashboards can readily be utilised as a tool to help analyse performance and support efficient decision-making. It gathers data from all areas of the company, including various resources relevant to a variety of business functions.

### Description

By providing a user interface in the form of charts, reports, visual indications, and alert systems, this information is incorporated and repeated. Previously, the dashboard was solely used in various business areas; however, it has recently been expanded to include other components, such as a healthcare component. In their article, provided a more detailed definition of the dashboard, describing it as a visual and interactive performance management tool that displays on a single screen the most critical information for achieving one or more individual or organisational goals, allowing the user to identify, discover, and communicate problem areas that require reformative action. One of this tool's functions is to encourage everyone to participate in the improvement process. They stated in their article that the dashboard has three primary goals: Using technology to keep track of important operations and processes analysing the root causes of problems by using appropriate and timely presented information via multiple views and levels of detail to improve decisions and direct the organisation in the right direction, and managing people and processes to improve decisions and direct the organisation in the right direction [1-3].

Management dashboards are a subset of business intelligence systems, and in fact, a new software system that assists organisations in enriching and analysing targets using information. The dashboard is a collection of tools for performance management in businesses, such as strategy maps, balanced scorecards, and business intelligence that give information in a specified format for decision-makers.

Hospitals provide a complex ecosystem of services, consumers, employees, equipment, data, and information. Hospital management used to be synonymous with financial management; however, with effective management, they may now integrate organisational intelligence (specialists), business intelligence (data types), and competitive intelligence (permanent communication with internal and external customers). This integration allows the hospital to see how well it is performing in relation to its strategic goals and to shift to a more innovative organisation. To accomplish this, you must have timely access to strategic information in order to make the best and most important decisions. Dashboards may be very value-creating and effective in exchanging such information and management priorities between different levels of operation using intelligent tools. Technological advancements like as The integration of all clinical and environmental

information in a single screen is made possible by dashboards, which enhances worker productivity, speeds decision-making, streamlines workflow processes, and decreases neglect and errors in management and nursing performance.

As electronic health records (EHR) systems have become more integrated, healthcare professionals can now retrieve nearly all health information using a computer. However, because of the vast amount of data available, information can become excessive and dispersed, wasting physicians' time collecting fundamental health information and resulting in the loss of critical information, which leads to the field of medical errors [4,5].

### Conclusion

However, because of their complexity and volume, how to offer information and the principles of design and technical architecture dashboard are critical, because decision-makers need to know how to provide the best information in real time so that they can make good decisions. In recent years, however, a number of government agencies and NGOs have attempted to construct management dashboards, but their efforts have been limited since, despite the dashboard's popularity, there is little information regarding the principles and methodology for creating one to improve effectiveness. This means that the design and architecture dashboard will track the organization's best performance.

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### Conflict of Interest

None

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\*Corresponding author: Sayed Rouhani, Department of Civil Engineering, Kakatiya Institute of technology and science, India, E-mail: sayedrouhani@gmail.com

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