

ABSTRACT

Information plays a key role in construction project management. In order for a construction project to be well managed, data from past projects, stored in a database, as well as data from the project at hand, must be readily available. It serves as an essential and valuable resource for project planning, control, reporting, and decision-making. Effective management of information is an integral part of a successful project management system, whose primary objective is completing the project on time and within budget limitations while meeting established quality requirements and other specifications.

Web-based coordination tools offer many benefits in the management of construction projects and the flow of information within; however they still have not been widely implemented in the construction sector.

This research described the design and implementation of an Internet/Intranet-based project coordination model where the Internet is utilized as a mechanism for communicating project control data and information. The monitoring process is automated through the use of intelligent documents over the World Wide Web and database technology through which data collection and dissemination are similarly automated.

This research focused on identifying some of the needs in the available Web-based Project Management models and implementing a collection of new sub-models to meet these needs to help different project participants in efficiently control projects and effectively monitor and assess project performance.