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Construct and evaluate the project management support software based on the project management methodology DTCN/DTC

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The modern society is supported by advanced systems that generallycalled as high-tech.
But, because recent social or industrial systems have gotten advanced, it is becoming unable for one or a few people to manage variousprojects -- such as design, maintenance or management of systems.

Therefore, universities and research facilities in each nation have developed various methodologies of project management focussing on important factors of project such as time resource, investigation or design procedure, and they have achieved to a certain degree.
Today's advanced nations might have not existed without benefits of these researches.

And now, there are several methods such as PATTERN, PERT and KT, which are widely used for project management. These methods must be available in partial cases of management, but not appreciative for total management.

DTCN/DTC developed by Prof.Michihiko Esaki is the project management method which can overcome these lacks. This method has already adopted in the XT-4 Fighter development project by Japan Defense Agency and Design To Cost operation standard by National Space Development Agency, and it made remarkable achievements. In DTCN/DTC seven basic methods are mainly used and a great deal ofcreated data are manually processed currently.

In this research, we set up several new concepts for design of software of Purpose Measure Diagram (PMD) proposed in DTCN/DTC. And then we implemented a prototype software and gathered several data about it based on these concepts.

As a result, we confirmed possibility of the PMD prototype software to support not only in the secretarial level but also in the frame-paradigm level proposed by Young.
The prototype software could also extract several merits and relatively decrease demerits of PMD because it was mediated by the network.