# ANALISIS DAN PERANCANGAN
# GROUP DECISION SUPPORT SYSTEM (GDSS) BERBASIS WEB
# PADA DISKUSI PARTISIPATIF
# YONMENKAIGI SYSTEM METHOD (YSM)

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## ABSTRAK

Seiring perkembangan teknologi, proses pengambilan keputusan mulai didukung oleh sistem yang terkomputerisasi dan biasanya disebut *Decison Support Systems* (DSS) kemudian terus berkembang menjadi *Group Decision Support System* berbasis *web*. Tujuan penelitian ini adalah untuk melakukan identifikasi dan analisis kelayakan diskusi partisipatif *Yonmenkaigi System Method* (YSM) dikolaborasikan dengan *Group Decision Support System* (GDSS) berbasis *web*, serta menghasilkan *logical* dan *physical design* usulan *Group Decision Support System* (GDSS) pada diskusi partisipatif Yonmenkaigi System Method berbasis *web*. Metode analisis dan perancangan sistem merujuk pada metode pengembangan *Decision Support System* (DSS) oleh Turban dan Aronson. Hasil penelitian ini adalah usulan perancangan sistem yang disebut *Web-Based Group Decision Support System for Yonmenkaigi System Method* (WGDSS-YSM) guna mendukung diskusi partisipatif yang terdiri dari *logical* dan *physical design*. *Logical design* yang dihasilkan meluputi *three-tier architecture system* dan model sistem yang didesain menggunakan *Unified Modeling Language* (UML) 2.3, *entity relationship diagram* (ERD), dan *model base* yang digunakan sebagai *toolkit* diskusi WGDSS-YSM. Hasil usulan terakhir adalah *physical design* yang meliputi *physical database,* struktur navigasi sistem secara keseluruhan, dan rancangan sketsa layar sistem.

Kata Kunci: *Decision Support System* (DSS), *Web-Based Group Decision Support System* (WGDSS), *Yonmenkaigi System Method* (YSM), diskusi partisipatif, analisis dan perancangan sistem*, Unified Modeling Language* (UML) 2.3

# ANALYSIS AND DESIGN OF
# WEB-BASED GROUP DECISION SUPPORT SYSTEM (GDSS)
# FOR PARTICIPATORY DISCUSSION
# YONMENKAIGI SYSTEM METHOD (YSM)

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## ABSTRACT

As the development of technology, decision making process supported by computerized system called Decision Support System (DSS) then continous to grow as a Web-based Decision Support Systems. The objectives of the research are to identify and analyse the feasibility of participatory discussion Yonmenkaigi System Method (YSM) collaborated with Web-based Group Decision Support and produce a propose model of logical and physical design of Web-based Group Decision Support System (GDSS) for Yonmenkaigi System Method. System analysis and design method refers to Turban and Aronson Decision Support System development method. Hence, the result is a propose model system design called Web-Based Group Decision Support System for Yonmenkaigi System Method (WGDSS-YSM) to support participative discussion consist of logical and physical design. Logical design constructs three-tier architecture system and system modeling using Unified Modeling Language (UML) 2.3, entity relationship diagram (ERD), and model base explaining the discussion toolkits for WGDSS-YSM. Lastly, physical design constructs physical database, navigation system, and sketch of user interface system design.

Keywords: Decision Support System (DSS), Web-Based Group Decision Support System (WGDSS), Yonmenkaigi System Method (YSM), participatory discussion, analysis and system design, Unified Modeling Language (UML) 2.3