Abstract

The development of new applications based on the existing design and code increases software quality. This work shows how design reuse increases software quality. It is important in the development of new software version from the existing applications. It enables the reuse of significant portion of the existing design. Software Reuse is one of the most beneficial aspects of Change Management. This concept provides different kind of modular reusability. The proposed work is about to develop an efficient automated tool for Design Time Reusability to generate different Software Entity Relationship Diagrams (E-R Diagram) and Database creation. Real world situations are captured through Entity Relationship diagrams (E-R Diagram). A key component of the design process in Software development life cycle (SDLC) is the conversion of Entity Relationship Diagrams (E-R Diagram) into Relational model. The mappings are incorporated during the conversion process and a database design is achieved. Here a methodology is described for the design of a Relational database based on the E-R model by performing the reusability of Requirement Phase Design. The designed tool will be used to automate the process of mapping E-R Diagram into relational model and to generate (Data Definition Language) DDL statement for each relation.
References

- Meyer. B, "NET is coming", in the conference proceedings of International on information and Software Technology, vol34 (8), pp. 92-97, 2001
- Fernando Barros, "Increasing Software Quality Through Design Reuse", in the proceedings of International Conference on reuse, pp. 236-241, 2010

Index Terms

Computer Science

Software Engineering
Keywords
E-R Diagram  SDLC  DDL