

ABSTRACT

XGEN 2000

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The process of learning is one of the most important processes in life. Life is full of situations which will challenge us mentally (and otherwise), and the system of education is geared to preparing us for the mental aspect of these challenges. By exposing students to the *surprise and unpredictability* associated with exam-writing, an experience similar to that of *living* is imparted.

From a broad perspective, this thesis documents an idea which aims at solving the problems associated with the manual tasks of examination generation. The solution presented is a custom-written application which has been designed, implemented and tested.

The main idea behind the proposed system, named XGen 2000, is the storage and retrieval of examination questions for the purpose of exam generation, with much added functionality. This system is one which combines the features of a traditional word-processor and graphics design application to provide a powerful, useful system which can be utilised by almost any educational institution for the purpose of testing students.

The following report contains an analysis of the requirements, design specifications, output, and evaluation of the XGen 2000 system.

Keywords: Computerisation; Examination Generation; Exam Databases.