PROJECT REPORT

ON

AUTOMATIC QUESTION PAPER GENERATION SYSTEM

DEVELOPED BY

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SHRAVANI ANIL THORAWADE	**51**

UNDER THE GUIDANCE OF

MRS. S.S. VELAPURE

IN PARTIAL FULFILLMENT OF

DIPLOMA IN COMPUTER TECHNOLOGY

2022-2023

Sinhgad Institutes

SINHGAD TECHNICAL EDUCATION SOCIETY'S

SOU. VENUTAI CHAVAN POLYTECHNIC, PUNE – 411041

MAHARASTRA STATE BOARD OF TECHNICAL EDUCAION,

MUMBAI

Sinhgad Institutes

Sinhgad Technical Education Society's

SOU. VENUTAI CHAVAN POLYTECHNIC, PUNE – 411041

CERTIFICATE

THIS IS TO CERTIFY THAT

MOHAMMED MUDASSIR MUZAMMIL	**28**
HARSH SHYAMSUNDAR MURKEWAR	**31**
NITESH ANIL GHOGARE	**35**
SHRAVANI ANIL THORAWADE	**51**

OF THIRD YEAR DIPLOMA IN COMPTER TECHNOLOGY
HAVE SUCCESSFULLY COMPLETED PROJECT

AUTOMATIC QUESTION PAPER GENERATION SYSTEM

IN PARTIAL FULFILLMENT OF
ACADEMIC REQUIREMENT FOR THE YEAR
2022-2023

AS PRESCRIBED BY
MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION, MUMBAI

DATE:
PLACE:

Mrs. S. S. Velapure	**Prof. A. V. Kurkute**	**Dr. (Mrs.) M. S. Jadhav**
(Project Guide)	**(Head of Department)**	**(Principal)**

Annexure A

CERTIFICATE

This is to certify that **Mr. Mohammed Mudassir Muzammil** from **Sou. Venutai Chavan Polytechnic** having **Enrollment No. 2000400267** has completed Project of Final Year having Title **"Automatic Question Paper Generation System"** during Academic Year 2022-2023. The projectcompleted in a group consisting of four candidates under the guidance of the Faculty Guide.

Project Guide

Mrs. S. S. Velapure

Annexure A

CERTIFICATE

This is to certify that **Mr. Harsh Shyamsundar Murkewar** from **Sou. Venutai Chavan Polytechnic** having **Enrollment No. 2000400239** has completed Project of Final Year having Title **"Automatic Question Paper Generation System"** during Academic Year 2022-2023. The projectcompleted in a group consisting of four candidates under the guidance of the Faculty Guide.

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Project Guide

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CERTIFICATE

This is to certify that **Mr. Nitesh Anil Ghogare** from **Sou. Venutai Chavan Polytechnic** having **Enrollment No. 2000400257** has completed Project of Final Year having Title **"Automatic Question Paper Generation System"** during Academic Year 2022-2023. The projectcompleted in a group consisting of four candidates under the guidance of the Faculty Guide.

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Project Guide

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CERTIFICATE

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Project Guide

Mrs. S. S. Velapue

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It is a great pleasure for me to acknowledge the assistance and contribution of number of individuals who helped me in developing "**Automatic Question Paper Generation System**" project. A project is defined as a piece of work that needs skill, effort, and careful planning, but during the course of the project, we found that if not only it sharpened our logical skills but also taughtus the value joint effort and hard work. A successful project is the result of good team work, which contains not only the people who put efforts but also who guide them.

First and foremost, I would wish to record my gratitude and thanks to **Mrs. S. S. Velapure** for her enthusiastic guidance and help in successful completion of project. I express my thanks to **Dr. (Mrs.) M. S. Jadhav** (Principal), **Prof. A. V. Kurkute** (Head of Department, Computer Technology) and **Mrs. P.V.Javkar** (Project Coordinator) for their valuable guidance. I am also thankful to other teachers and non-teaching staff of Computer Technology Department and Library for their cooperation and help.

Lastly, I need to extend my thanks to all those, who helped us directly or indirectly in completing this team project.

Mohammed Muzammil

Harsh Murkewar

Nitesh Ghogare

Shravani Thorawade

ABSTRACT

In today's age, education is the most important way of achieving success. When we discuss education, it is imperative to mention tests and examination. Examinations prepare students in their quest for knowledge. So, having a proper examination paper and format is quite necessary. Now the traditional method of generating question paper has been manual. In this method certain officials chalk out the question paper. But this method can be ineffective at times owing to bias, repetition and security concerns. We have proposed an automated process of Question Paper Generation which is fast, streamlined, randomized and secure. Every task performed by this system is automated so that storage space, bias and security is not a concern anymore. Furthermore, we have proposed a new algorithm which ensures total randomization of questions and avoids repetitions. The proposed system can be helpful to many educational institutes and NGO based institutes.

A design of suitable automated system for generating question papers and managing related data may prove vital in an Educational Institute. In this paper, we have proposed an integrated automated system that stores questions related to a particular course and prints a question paper based on its syllabus and curriculum. We have implemented a role-based hierarchy which restricts access to the users. The system also deploys security mechanisms that prohibit duplication of question papers. There are provisions to enter and edit data suitable to any educational organization with complete freedom for specifying courses, semesters, syllabus and pattern. This enables an educational institute to generate question ensuring security and non-repetitiveness of question papers and is a boon for organizations with limited staff and resources. Our system aims to provide fast operations, data storage and high security for all its tasks.

INDEX

SR. NO	TITLE	PAGE NO.
1.	**INTRODUCTION AND BACKGROUND**	
1.1	Introduction	1
1.2	Background	4
2.	**LITERATURE SURVEY**	
2.1	Literature Survey	5
3.	**SCOPE OF THE PROJECT AND METHODOLOGY**	
3.1	Scope of the Project	10
3.2	Methodology	11
3.3	Hardware and Software Requirements	12
4	**DETAILS OF DESIGN, WORKING, AND PROCESSES**	
4.1	System overview diagram	13
4.2	Architecture of the Project	
4.3	Data Flow Diagrams	16
4.4	Usecase Diagrams	
4.5	Activity Diagrams	
4.6	Sequence Diagrams	17
4.7	Component Diagram	20
4.8	Deployment Diagram	
4.9	Package Diagram	
4.10	Site Transition Diagram	
5	**RESULTS AND APPLICATIONS**	
5.1	Test Procedure	21
5.2	Test Cases	22
5.3	Screenshot	27
5.4	Applications of the Project	30
6	**CONCLUSION AND FUTURE SCOPE**	
6.1	Conclusion	31
6.2	Future Scope	32
	REFERENCES AND BIBLIOGRAPHY	
7.1	IEEE Papers	33

INDEX OF TABLE

SR NO.	TABLE NAME	PAGE NO.
3.3.1	Software Requirements	10
3.3.2	Hardware Requirements	11
5.2.1	Test Cases	22

INDEX OF FIGURE

FIGURE NO.	NAME OF FIGURE	PAGE NO.
3.2.1.1	Waterfall Model	07
4.1.1	Architecture of the Project	14
4.1.1.1	System Overview Diagram	14
4.2.1.1	DFD Level-0 Diagram	16
4.2.2.1	DFD Level-1 Diagram	16
4.3.1.1	Use-Case Diagram	17
4.3.2.1	Component Diagram	18
4.3.3.1	Deployment Diagram	19
4.4.1	Package Diagram	20
5.3.1	Test Procedure	27
5.3.2	Test cases	27
5.3.3	Screenshots	28
5.3.4	applications	28

CHAPTER 01

INTRODUCTION AND BACKGROUND

1.1 Introduction

This is a challenging era due to the growth in the field of computer science and demand we are facing today. Hence examinations play a vital role in testing student's performance. And that is why it is important to have a smart development question model for growth of students as well as to test their learning skills thereby keeping a check on student performance. Generating an effective question paper is a task of great importance for any educational institute. The traditional method, where lecturers manually prepare question paper, it is very tedious and challenging. Hence, with the help of this technical paper we present the solution in form of Automated Question Paper Generator System.

In today's world, time is a major concern. Any product that can effectively reduce time and power consumption is accepted and appreciated. Thus we are presenting an Automated Question Paper Generator System that can reduce time consumption by replacing the conventional method of question paper generation system. It also needs lesser man power. In our system we allow administrator to input a set of questions. We also allow admin to provide weight age and complexity for each of these questions .After this the questions are stored in database along with their weight age. During the time of question paper generation, the admin just has to select the percentage of difficulty. On this selection the system selects questions randomly according to the difficulty that admin chose. The questions are chosen based on their complexity level. The project also has an option of adding multiple choice questions which can be used to create a question paper for aptitude exams which are conducted by companies during placements. The system automatically generates paper, prepares doc file as per selected paper format. Also emails it to other colleges. After this question paper is converted to pdf file and emailed to colleges on button click.

In a practical scenario, generating a question paper is very time consuming and it makes all the teachers tired of doing the same tasks over and over again. This project removes these issues and difficulties. In this project, we have used a system in which random questions will be selected from the database to generate the question paper.

Using a randomization algorithm, questions are selected based on course, semester, subject, marks. The questionnaire is produced according to the above pattern by the administrator to avoid time-consuming activities, and also by the students to practice for their exams.

In any educational field main goal is improve the standard of student. As beforehand question papers are generated manually where teachers require longer time and energy to make examination paper by writer's knowledge and experience therefore, we introduce new advanced technology that is the automatic question paper generation system. This requires less manpower using this technique to process different uncommon sets of papers automatically. The system takes over the whole difficult task and paperwork swiftly and efficiently. Question bank is stored in a database based on branch, difficulty level, course, subject and semester. The automatic paper generator technique performs all work related to paper creation. Example work ranging from choosing subject, difficulty level and number of questions to generate a paper this method is useful for both small and huge institutes.

After these questions are stored in the database along with their difficulty level during the time of question paper generation the teacher just has to select the subject, level of difficulty. And number of questions. On this selection, the system selects questions randomly according to the difficulty level and subject that teacher chooses. We do not have to collect the papers as inbuilt ready to use question bank generated. Duplication of questions is avoided. There are three levels of difficulty is provided is Beginner, Intermediate and Expert.

1.2 Background

Information and intelligence are two vital columns on which development of humankind rise and knowledge has significant impact on operating of society. Student assessment is a crucial part of teaching and is done through the process of examinations and preparation of exam question papers has consistently been a matter of interest. Present-day technologies assist the teacher to stock the questions in a computer databases but the problem which emerges is how the present day technologies would also assist the teachers to automatically create the variety sets of questions from every now and then without worry about replication and duplication from the previous exam while the question bank keeps growing, so a non-automatic path for conniving a exam paper would not be able to serve to this need so in this paper we introduce an automated way which would permit the operation of conniving exam paper to be further well organized and productive and it would also aid in developing a database of questions which could be further classified for blending of exam question paper, currently there is no systematic procedure to fortify quality of exam question paper.

Hence there appears a requirement to have a system which will automatically create the question paper from teacher entered description within few seconds. In this paper we have implemented a modern evolutionary path that is able to manage multi-constraints issue along with creating question papers for examinations in autonomous institutes from a very vast question bank database. This paper describes the utilization of randomization algorithm in an Automatic Question paper Generator System which has been implemented specially for autonomous institutes. The endeavor needed for generating question paper is diminished after the implementation of this advanced system and because of this advanced system there is no obligation for humans to ponder and employ time which can be utilized on some additional important duty instead of designing question paper.

Examinations predominantly use question papers as a vital constituent to discover the caliber of students. A good exam gives all students an equal opportunity to fully demonstrate their learning. The National Board of Accreditation (NBA),Indian states

that Autonomous institutes should encourage the standard of teaching, self-analysis and responsibility in higher education and promote the Institutions in perceive their educational aim, embrace education exercises that accredit them to yield appreciative quality professionals and to aid them in ceaselessly bestowing to the area of education through transformation & research.

Assessment is one or more activity that recognizes, gather, and construct data to assess the fulfillment of Course outcome and program Outcomes. Automatic Question paper generator system considers question paper creation as its fundamental activity, and the caliber of questions is the key in enhancing examination standard, which depend on intelligent and random choice of a set of questions.

Previously the examination cell of the college or board needed to prepare question papers manually which was very monotonous and time consuming. There are a few systems in today's market that offered the similar services like the proposed system. Those systems are developed by different developers with different features. The techniques employed by such systems are also different.

Disadvantages of existing system:-

1. Errors: The demerit of test checking is that errors are not disclosed by it. In the presence of error, true and fair view is not possible.

2. Frauds: The demerit of test checking is that planned frauds may not be disclosed. The fraud discovers is the responsibility of management.

3. Responsibility: The demerit of test checking is that auditor cannot shift his responsibility of management.

4. Report: The auditor report may fail to disclose true and fair view of business matters.

CHAPTER 02

LITERATURE SURVEY

2.1 Literature Survey

[1] CQG (Cloze question generation):

This is a system that generated list of cloze questions given in English article. CQG system is split into three main module, Sentence selection, key selection and distractor selection. In the first stage, informative and relevant sentences are selected and within the second stage, keywords (or words/phrases to be questioned on) are identified within the selected sentence key selection won't be noun or adjective it would find on the basis of NER. Distractors (or answer alternatives) for the keyword within the question sentence are chosen within the final stage. First two stage do not seem to be domain specific. third stage is domain specific, because quality of distractor depends on domain so distractor are going to be selected on the idea of the key selected and through web, list of distractors are going to be generated and knowledge based distractor list will generated. And evaluation of the system is completed manually through three phases.

1). Evaluation of the chosen sentence

2). Evaluation of selected keyword and

3). Evaluation of selected distractor.

[2] Automatic Question Generation system called GAsk:

This is a system which generates particular questions as a sort of guidance for student learning. A case study was conducted on a large range which involved 24 supervisors and 33 students which resulted on comparing question generated from the software and human generated questions, which proved software generated most efficient. Compared and Citation Classification performance is completed through precision and recall, and Question Quality evaluation is completed through Cohen’s Kappa coefficient. For generating question syntactic category Labeler and NER (Named Entity Recognizer) is employed to spot whether its Name, Location or Name of Organization. Once Question sentence is ready, then measures the similarity between the Question sentence and every sentences from the Question knowledge based. Sort the obtained similarity values from other sentences and find three keyword from three different sentences as an distractor values. The results of research was nearly 145 parsed sentences, there have been 109 considered better for the keywords obtained from them.

[3] Automatic question paper generator system :

This system used a randomized technique. this method has modules like user administration, subject selection, difficulty level specification, question entry, question management, paper generation, and paper management. The system uses attributes like storing question in database, admin selected complexity level of questions, maintenance of the database.

[4] Framework for Automatic examination Generation System:

This system provided the method to generate automatic question paper. Manually generation of question paper is sort of a difficult task. This system provided a straightforward and efficient way for an examination paper generations. A three-tier model is provided during this framework. Generation of Examination Papers is managed by the Syllabus Engine, Pattern Composer, and Question Aggregator. The system relies on the pattern or skeleton of the course. within the system, questions are entered through the Question Aggregator. Weight age, the issue level of question and marks these are the attributes of question paper.

[5] Automatic Multiple Choice Question Generation System:

The provided system selects the informative sentence and the keyword to be requested primarily based totally at the semantic labels and named entities that exist with inside the sentence, the distractors are selected primarily based totally on a similarity degree among sentences within the records set. In this paper, multiple choice questions are generated automatically which asks about words in a given sentence, the phrase can be an adverb, adjective, vocabulary, etc. For producing questions Semantic Role Labeler and NER (Named Entity Recognizer) is used to pick out its Name, Location or Name of Organization. Once Question sentence is prepared, then measures the similarity among the Knowledge based questions and question sentences. Sort the acquired similarity values from different sentences and Get 3 keyword from 3 special sentences as a distractor values. In these studies out of almost a hundred forty five parsed sentences,

there had been 109 taken into consideration accurate in step with the key phrases that are extracted from them.

[6] Automatic Question Generation Using Software Agents for Technical Institutions:

This is a developed system during which take an input in sort of the document from user which contains of the text upon which the user desires to fetch questions; the output is produced in sort of a document containing questions supported Bloom's taxonomy. The advantage of generating questions based on Bloom's taxonomy enables get to the questions that help to assess brain of the scholars. The proposed framework helps in question generation by deploying agents, the agents will perform various operations like document processing, information classification and question generation. Thus system may also be termed as a multi agent system. In Document processing tree tagger tool and stemming process is finished to eliminate the process. Information classification takes an list of keyword generated by processing and finds the Bloom's category of these words, by searching appropriate action verb within the repository which inserts with the given keyword. question generation module takes the output of data classification as input to come up with questions. the method could be a template based approach, which inserts the chosen keywords within the question template in line with the Bloom's levels.

[7] Automatic Multiple Choice Question Generation System:

The gadget furnished selects the informative sentence and the key-word to be requested primarily based totally at the semantic labels and named entities that exist with inside the sentence, the distractors are selected primarily based totally on a similarity degree among sentences with inside the records set. In this paper, automated query generated like multiple choice questions which asks approximately a phrase in a given sentence, the phrase can be an adjective, adverb, vocabulary, etc. For producing query Semantic Role Labeler and NER (Named Entity Recognizer) is used to become aware of whether or not its Name, Location or Name of Organization. Once Question sentence is prepared, then measures the similarity among the Question sentence and every sentences from the Question information primarily based totally. Sort the received similarity values

from different sentences and Get 3 key-word from 3 exceptional sentences as an distractor values. In these studies out of almost a hundred forty five parsed sentences, there had been 109 taken into consideration properly in keeping with the key phrases that are extracted from them.

[8] Automatic Generation of Multiple-Choice Questions from Domain Ontologies:

The technique supplied on this paper is primarily based totally on area unique ontologies and it's far impartial of lexicons along with WordNet or different linguistic resources. System creates a couple of multiple-choice questions using the Semantic Web preferred technology OWL (Ontology Web Language). The proposed technique is impartial of the area in view that questions are generated in step with unique ontology-primarily based techniques. Class based, assets based, terminology-based techniques have been used to generate the a couple of multiple choice query. Property- based techniques can also additionally produce a massive quantity of multiple-choice questions however are very hard to control syntactically. Class and terminology-based techniques alternatively are tons less difficult to handle syntactically however generate fewer questions for ontologies of the equal intensity and population. The generated questionnaires have been evaluated in 3 dimensions: Pedagogical quality, linguistic/ syntactical correctness and quantity of questions produced.

[9] Linguistic Considerations in Automatic Question Generation:

The technique includes a straightforward pipeline. First, the supply textual content is split into sentences which are processed via way of means of SENNA software, SENNA presents the tokenizing, pos tagging, syntactic constituency parsing and semantic role labeling used within the system. For every predicate and its associated semantic arguments, a matcher characteristic is called which will return a listing of arguments that match sentence’s predicate-argument structure. And paper specializes in evaluating generated questions in general in phrases in their linguistic quality. Evaluation carried out via means of one file, on chemistry which has 59 questions and 142 questions that are generated through this system.

CHAPTER 03

SCOPE OF THE PROJECT

AND

METHODOLOGY

3.1 Scope of the Project :

Scope of the Automatic Question Paper Generation is explained below

1] This system is going to save time. It's a very hard when teacher search particular number of paper from bunch of papers. Examiners can generate test papers randomly by using QGS instantly, thus saving a lot of time. QGS can help examiners to generate the question paper based on the learning outcomes elements.

2] Computerization is important for every field because the data is secure in computer and no need to search the data from years of trash.

3] Wide portion coverage and efficient question paper generation.

4] No chance of paper leaks and the system provides an unbiased result.

5] Thus the system excludes human efforts and saves time and resources. Also the Students are able to practice for the exams, based on their choice of format selection, in which they want to practice.

6] Until now, none of the systems similar to ours, came up with an idea of predefined templates , which will not only make the work easier and quick, but also reduces a lot of overhead in this process.

7] Autocomplete list will be helpful while feeding the questions into the database, which in return avoids duplication and Repetition.

3.2 Methodology

The methodology for Automatic Question Paper System is developed under waterfall model architecture as shown in the below figure 1.

The sequence phases in water fall model according to our project are mentioned below.

3.2.1 Requirement Analysis –

Here requirement analysis are done based on following points

- Base paper for Automatic Question Paper System
- Studying on random question paper generation

3.3 Hardware and Software Requirements

The System of Automatic Question Paper System is designed by using the following hardware and software's

- **Hardware Specification:**

- CPU : Dual Core of 2.2 GHZ
- RAM : 2 GB
- HDD : 100 GB

- **Software Specification:**

- Coding Language : Java
- Development Kit : JDK 1.8
- Front End : Swing Framework
- Development IDE :Netbeans 8.2
- Database : MYSQL 5.5

3.2.3 Implementation:

The proposed methodology of our system can be explained through following modules:

- **Module A: Admin Operation**
  - Input: Admin Credentials
  - Process: Feeding Question paper
  - Output: Question Storing Database

- **Module B: Staff Operation**
  - Input: Staff Credentials
  - Process: Question Paper Parameters
  - Output: Parameter Validation

- **Module C: Question Paper Generation**
  - Input: Question Paper Database and Parameters
  - Process: Random Question Selection and Preparation
  - Output: Question Paper Formation

3.2.4 Deployment of the system:

The developed software is deployed in the laptop of above mentioned configuration with the help of the mentioned software.

3.2.5 Maintenance of the system:

As this software is tested for the quick recovery, so maintenance of the system is not a challenging task. This is because the tools and the software used are open source, so there is no question of licensing the required software.

CHAPTER 04
DETAILS OF DESIGNS, WORKING, AND PROCESSES

4.1 System Overview Diagram

Fig 4.1.1 System Overview Diagram

The Designed Model is explained

1) Admin login:- Every school, college, or institutes, whomsoever using the QPG system will be empowered with an Administrator, the foremost important and responsible person w.r.t to examination section of particular institute. The admin possess two operations viz.,

- Registration of staff members of particular institute, thereby providing login credentials to them.
- Generation of QP by choosing essential fields such as type of QP, total marks , difficulty level etc.

2) Teacher login:- Based on the provided login credentials from the respective admin of an institute, teacher will have the responsibility to mainly, Update the database by insertion of questions/modifications if required any.

3) Student login:- students can register themselves, provided with the college enrollment id , in order to check for any updates related to exams

Also students can practice and prepare for examination based on subject-chapter-module wise filtration.

4) Question insertion:-As mentioned above, it is the responsibility of teachers of a particular institute, to add/update questions in the database, question insertion will proceed by filling up required or essential fields(options)

Fields include:-

- Course
- Semester
- Subject
- Priority of respected Question

5) Difficulty choosing:- To achieve unbiased as well as expected output, QPG system is introducing a new field named “difficulty choosing” which not only selects questions from the database randomly but also filter those questions based on the priorities defined in various difficult levels. Predefined priorities based on difficulty choosing is as follows:-

- Easy:- priority ranging from 1-2.
- Medium:- priority ranging from 3-4.
- Hard:- priority ranging from 5-6.

6) Templates:- Since QPG system will be used by any private/public institute, our main purpose for introducing this module, is to get work done with ease and to achieve quick results. This module comprises of various templates.

7) Generation:-Every public/private institute is assigned with an Admin, which is responsible for Generation of QP for the respective institute. As and when the admin selects the difficulty level and template for desired output, a query will fired into the database wherein, those type of questions which falls under the selected category , will be filtered and get store into an array. An predefined function called “Shuffle()” is triggered on to the array in order to achieve random sequence of questions, which are then reflects into the preview of QP.

8) System Auditing:- As Auditing is the most important aspect in any system, we do have implemented auditing by storing logs of all operations such as:

- After signing up or signing in into the system, an entry will be stored into the database with parameters {time, date, Teacher id, }.
- As and when addition/updating of any question is done then the essential information such as { time, date, sem, sub, teacher id.} is been stored inside the database.
- While downloading the final QP through the website, Timestamp is

recorded and stored into the log along with the examiner id.

4.2 Architecture of the Project:

Fig 4.2.1 Architecture of the project

4.3 DATAFLOW DIAGRAMS (DFD)

4.3.1 DFD level 0

Fig 4.3.1.1DFD level 0

4.3.2 DFD level 1

Fig 4.3.2.1DFD level 1

4.3.3 DFD level 2

Fig 4.3.3.1 DFD level 2

4.4 USECASES

4.4.1 Usecase1

Fig 4.4.1.1 Usecase

4.4.2 Usecase 2

Fig 4.4.2.1 Usecase 2

4.5 Activity Diagram

Fig 4.5.1 Activity diagram

4.6 Sequence Diagram

Fig 4.6.1 Sequence Diagram

4.7 Component Diagram

Fig 4.7.1 Component Diagram

4.8 Deployment Diagram

Fig 4.8.1 Deployment diagram

4.9 Package Diagram

Fig4.9.1 Package Diagram

4.10 Site-Transition Diagram

Fig 4.10.1 Site Transition Diagram

CHAPTER 05

RESULTS AND APPLICATIONS

5.1 Test Procedure

5.1.1 Performance Testing:

The performance of the system is measured by the Root mean square for the given input Question dataset.

5.1.2 System testing:

Checked the steadiness of the space provided by the system for the maximum number of Questions. This is done by feeding the maximum number of Questions to learn and so that set the threshold by the Virtual machine option of the NetBeans IDE.

5.1.3 Recovery System

Our system can be recovered in span of 2 hour after crashing. Within two hour we can install all the Software and deploy our system to work as in the past.

5.1.4 Security Testing

5.1.4.1 Stress Testing:

The System is well equipped to stand against the breakdown point of maximum number of datasets decided by the IDE's virtual machine settings, beyond that the memory overflow exception may arise.

5.1.4.2 Unit Testing:

All the modules are independently handled developed and ran to get proper output and finally they are integrated to get the whole output.

5.1.4.3 Black Box Testing:

Compatibility analysis is done by passing the output of one module to another and checking for estimated output of Question Paper Generation.

5.1.5 Integration Testing:

When all the individual modules are integrated into our system, that yields a proper system of Question Paper Generation system that is cross examined for the desired output.

5.2 Test Cases

ID	TEST CASE	INPUT	PASS CRITERIA
A_REG	Admin registration	Admin Details	All the details are Validated and Stored in Database successfully
A_LOGIN	Admin Login	Admin Credentials	Admin Credentials will be Validated and admin will login successfully
A_EDT	Admin Edit Profile	Admin Details	The new Admin Details are validated and stored in database successfully
A_Q_UPLOAD	Upload Question Excel sheet	Question Excel Sheet	Admin will select the Question Excel sheet and all the data stored in database successfully
A_V_QLIST	Admin is viewing Question List	Admin Action	Admin will view Uploaded question list in a table successfully
A_E_QUESTIONS	Admin is editing Question list	Updated Question Data	The updated question data stored successfully
S_REG	Staff registration	Staff Details	All the details are Validated and Stored in Database successfully
S_LOGIN	Staff Login	Staff Credentials	Staff Credentials will be Validated and admin will login successfully
S_EDT	Staff Edit Profile	Staff Details	The new Staff Details are validated and stored in database successfully
S_Q_GEN	Staff is generating question paper	Question paper parameters	Staff is giving parameters to generate question papers, then a question paper generated successfully and stored in drive successfully

5.3 Screenshots

Fig 5.3.1 Admin Login

Fig 5.3.2 Registration Frame

Fig 5.3.3 Admin Operation Frame

Fig 5.3.4 Admin Edit Profile Frame

Fig 5.3.5 Upload Question Frame

Sr_No	Department	Semester	Subject	Unit	Questions	Level_OF_Que	Marks	Teacher_Name
1	computer technology	fifth	css	unit-i	explain any four feature...	easy	1	mrs. s.s.kadam
10	computer technology	fifth	css	unit-i	write a javascript conditi...	medium	4	mrs. s.s.kadam
100	computer technology	fifth	css	unit-vi	what is the use of scroll...	medium	5	mrs. s.s.kadam
101	computer technology	fifth	css	unit-vi	create a slideshow with...	difficult	5	mrs. s.s.kadam
102	computer technology	fifth	css	unit-vi	list ways of protecting y...	medium	2	mrs. s.s.kadam
103	computer technology	fifth	css	unit-vi	write a javascript that di...	difficult	2	mrs. s.s.kadam
104	computer technology	fifth	css	unit-vi	write short note on - fra...	difficult	4	mrs. s.s.kadam
105	computer technology	fifth	operating system	unit-i	differentiate between ba...	easy	1	mrs. s.s.kadam
106	computer technology	fifth	operating system	unit-i	state any four services ...	easy	2	mrs. s.s.kadam
107	computer technology	fifth	operating system	unit-i	define : process , progr...	medium	1	mrs. s.s.kadam
108	computer technology	fifth	operating system	unit-i	state two features of pre...	difficult	2	mrs. s.s.kadam
109	computer technology	fifth	operating system	unit-i	write syntax of ps comm...	easy	1	mrs. s.s.kadam
11	computer technology	fifth	css	unit-i	write a javascript for loo...	difficult	5	mrs. s.s.kadam
110	computer technology	fifth	operating system	unit-i	list any four file attributes.	easy	1	mrs. s.s.kadam
111	computer technology	fifth	operating system	unit-i	defione following terms ...	difficult	2	mrs. s.s.kadam

Fig 5.3.6 View Question Frame

Fig 5.3.7 Update Question Frame

Fig 5.3.8 Staff Login Frame

Fig 5.3.9 Staff Operation Frame

Fig 5.3.10 Staff Edit Profile Frame

Fig 5.3.11 Question Paper Generation Frame

Fig 5.3.12 Que Doc File

5.4 Applications of the Project

- Colleges
- Universities
- High schools

CHAPTER 06
CONCLUSION AND FUTURE SCOPE

6.1 Conclusion

The proposed work describes an automated system that progresses from the traditional method of paper generation to an automated process, by providing controlled access to the resources. This is achieved by comprehending users and their roles in the institute. We have also considered the importance of randomization in the task of paper generation. Our system has deployed an efficient algorithm which is totally randomized and avoids repetition of questions is consequent question papers, making it impossible to derive any pattern in the papers. We distinguish between administrators and subordinates by their tasks. Therefore, the resultant automated system for Question Paper Generation provides improvement in terms of controlled access to the resources, random generation of question papers and a secure platform.

6.2 Future Scope

Automatic Question Paper Generator is designed keeping in mind with many future possibilities that can improve the software to be more productive and secure.

- The methodologies that we presented for generating question paper show promising outcomes and can be utilized as a basis for making a more advanced automatic and independent paper generator.
- This software can take its true form when a large number of questions are added into a dedicated database which will unlock a whole new potential of portability.
- With the large database security threats are a major concern. To avoid this, a more secure database can also be achieved, which will make sure that only an authorized person can have access to this software.
- Our effort is to develop this software for important exams such as SSC, HSC. This will be beneficial to the students as they are more inclined to solve multiple papers.
- With all these possibilities, this software will be more secure and will also provide much better results.
- In the future this system can be enhance to work as a web application or mobile application that can serve the many disciplines.

CHAPTER 07

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