ASP.NET PROJECT REPORT

(INT402)

ONLINE EXAMINATION SYSTEM

SUBMITTED BY

ABHISEKH SRIVASTAVA	11612779	A62
AMIT SADARANG	11612527	A61

UNDER THE GUIDANCE OF

Ankita Wadhawan

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

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Introduction:

This online examination system helps to take test of students online and generate results online, by just adding questions and answers it also adds keywords related to answers. This online exam software has two modules namely the Admin and Student, admin can login and have access of adding students, questions and answers, keywords of answer related, he/she can also view students, results, change student's password and can set time limit for test. Another module is student after logging in students have authority to complete the test within the allotted time, after completing the test, the results are immediately displayed on screen. If the student forgets his/her password, he/she can change or re-set again with the help of Email address.

Feasibility Study:

Feasibility study is the study of the system to check whether the system made is feasible or not. It is very Useful to check whether the system work as per the requirement or not. It is undertaken to determine the possibility of the probability of developing completely new system.

Need of the feasibility study

- Answer the question whether the new system is to be developed or Not?
- Define the problem and objectives involved.
- Is the cost incurred in the development of the system of the Justified?

Operational feasibility:

It covers mainly two aspects. It determines that how the proposed system will fit in the current operation and what if the job retraining and restructuring may be needed at the end of the implementation of the system. The operational feasibility checks whether user who is going to use the system as able to work with the software with which the system is coded!

In the system Operation feasibility following are the question to be asked!

- Is there sufficient support for the project?
- Is current method are acceptable to the user?
- Have the user been involved in the planning and development of the System?

Technical feasibility:

It determines that work for the project is done with the present equipment and existing software technology. Necessary all things is easily feasible for the project. Necessary technology, documents, reports are also available. Technical guarantee of accuracy, reliability and security are also provided.

- Does necessary technology exists to do what is suggested?
- Do the Proposed equipment have the technical capacity to hold the data required to use new system?
- Are there technical guarantees of accuracy, reliability ease of access and data security?

Economic feasibility:

It looks the financial aspects of the project. Economic feasibility concerns with thereturns of the investments in the project. It determines whether it is worthwhile to invest money in the proposed system?

- What is the cost to conduct a full system investigation?
- What is the cost of hardware and software required in the development of the proposed system?

Modules:

The system comprises of 2 major modules with their sub-modules as follows:

1. Admin

- Login: Admin Can login by using credentials.
- Add Student: Admin can add students
- Add Question & Answers: Admin can add questions and answers
- Add Keyword: Admin can add keywords.
- View Students: Admin has authority to view students.
- View Results: Admin can also view the result of the test.
- Change Student Password: Admin can change students' password.
- Settings: Admin have access of settings

2. Student

- Login: Students can login using credentials
- Give Test: Students can give test
- View Result: Student can see results
- Profiling; students update their profile.
- Forgot Password: Students can reset the password.

Hardware Requirement:

- i3 Processor Based Computer or higher
- Memory: 1 GB
- Hard Drive: 50 GB
- Monitor
- Internet Connection

Software Requirement:

- Windows 8 or higher
- Visual Studio
- SQL Server
- Google Chrome Browse

Advantages

- Test can be taken and given easily.
- No paper being used.
- Result are generated immediately.

Limitation

- It requires internet connection.
- It is based on system, if system crashes student has to give reexam.

Problem Definition:

Analysis of the system is the process of gathering facts, solutions of problems and to decide overall constitution of the desire system. In system analysis, we have to analysis all the processes, related feature; require features available sources and the time, which should be specified for the analysis stage. The most important phase of developing any system is system analysis. Because of the analysis phase decide that what type of requirement, materials, strategy, techniques and module are required.

All these things are depend upon our system that what type of outputs of our system or functions, we desire from the system is also responsible for defining the above factors. So overall structure of the system that we want to implement will be decide in analysis of a system development by analyst.

Risk Analysis:

There are two types of risks, Proactive and Reactive risks. A reactive risk strategy is nothing but never worrying about problems until they happen. Considerably and impact are assessed, and they are monitored as per their importance. Then the software team establishes a plan for managing risk. The primary objectives are to avoid risk.

We have divided the risks into following categories:-

- Product size Risks
- Business Impact Risks
- Technology Risks
- Development Environment Risks

Product Size Risks:

We identify the following risks as a major threat to our application. The product would finally be implemented throughout the organization, will include all it's accounts. Number of projected changes before and after delivery

Business Impact Risks:

Business considerations many times conflict with technical considerations. We identified the following as business risks that many fall to our steps during the course of the development of our application.

- What will this product return to the company in terms of revenue?
- Reasonableness of Delivery deadline
- Number of customers using this product and their technical skills
- Amount and quality of documentation to be produced with this product

Technology Risks:

Pushing the limits of technology is challenging and exciting. Every technician wishes to use his/her skills to the fullest. But then Murphy's Law always holds up. The Technical risks that we identified are

- Environment would be quite different then our previous projects
- Requirement may demand the creation of program components that are completely new as far as we and the organization is concerned.

Development Environment Risks:

Inappropriate and Insufficient tools never lead to an excellent product. Thus development environment has a very big impact on quality and timeliness of the final product. Some of the Development risks identified by us are enlisted below

- Availability of proper tools for analysis and design
- Availability of local experts
- How much is online help and documentation available for the tools?

Database Description:

In database management system a file that defines the basic organization of a database. A data dictionary contains a list of all files in the database, the number of records in each file, and the names and types of each field. Most database management systems keep the data dictionary hidden from users to prevent them from accidentally destroying its contents. .

Table Name:-Question			
Description:- This table stores the Question			
Field Name	**Data Type**	**Constraints**	**Description**
Question ID	int	Not Null	Id of Question
Question	Varchar(MAX)	Not Null	Name of the Question
Ans1	Varchar(50)	Not Null	Answer of question
Ans2	Varchar(50)	Not Null	Answer of question
Ans3	Varchar(50)	Not Null	Answer of question
Ans4	Varchar(50)	Not Null	Answer of question
Correct Ans	Varchar(50)	Not Null	Correct Answer of question

Table Name:-Answer			
Description:- This table stores the Answer of the Question			
Field Name	**Data Type**	**Constraints**	**Description**
Username	Varchar(50)	Not Null	Name of the user
QueNo	int	Not Null	No of the Question
AnsT-F	Varchar(50)	Not Null	Ans of the question

Table Name:-Result			
Description:- This table stores the Result			
Field Name	**Data Type**	**Constraints**	**Description**
Username	Varchar(50)	Not Null	Name of the user
Marks	int	Not Null	Marks of the exam

Table Name:-Feedback			
Description:- This table stores the feed back of the user			
Field Name	**Data Type**	**Constraints**	**Description**
Username	Varchar(50)	Not Null	Name of the user
Address	Varchar(50)	Not Null	Address of the user
Email ID	Varchar(50)	Not Null	Email id of the user
Thought	Varchar(50)	Not Null	Thought of the user

UML Diagram:

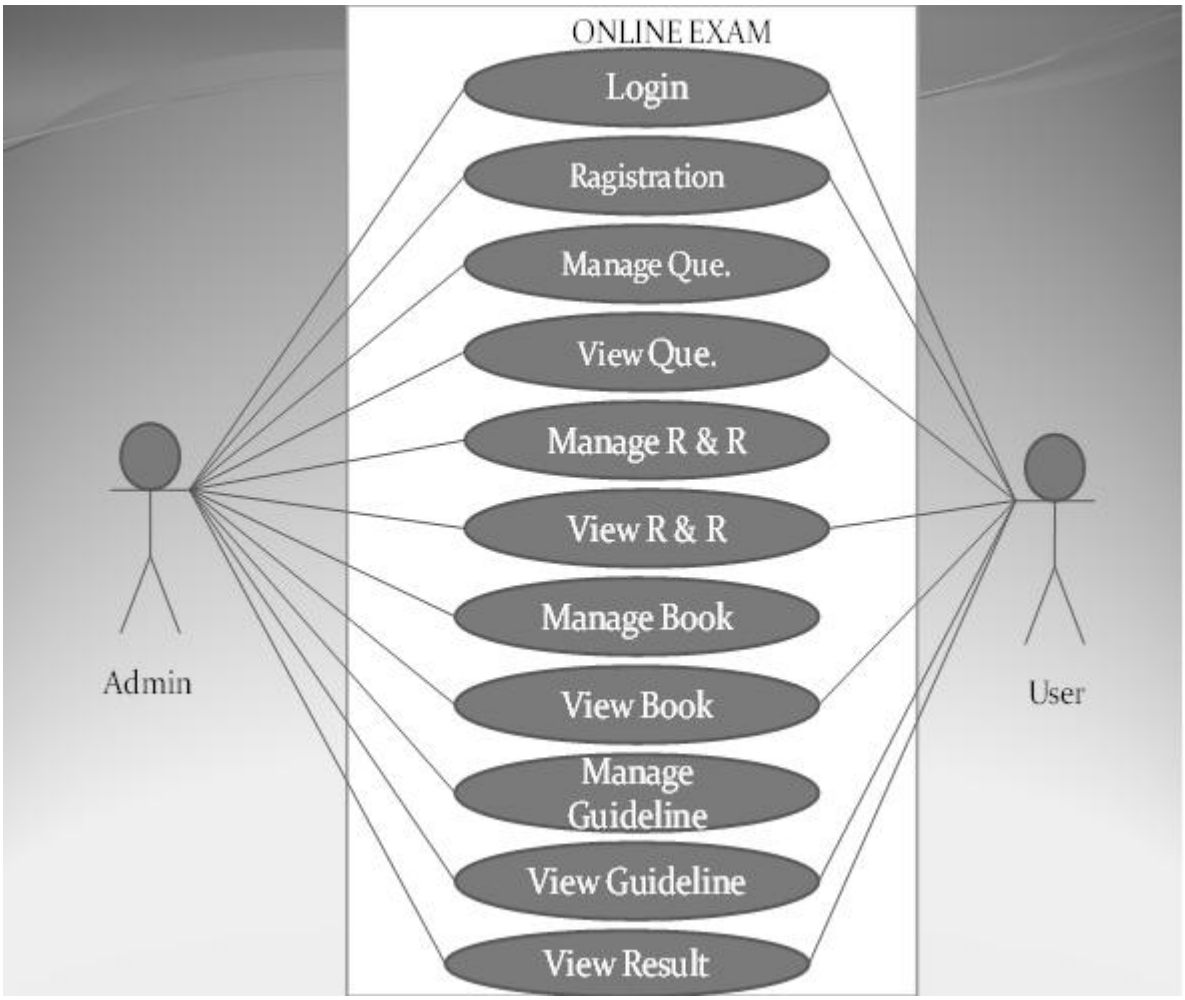

Figure 1: use case diagram

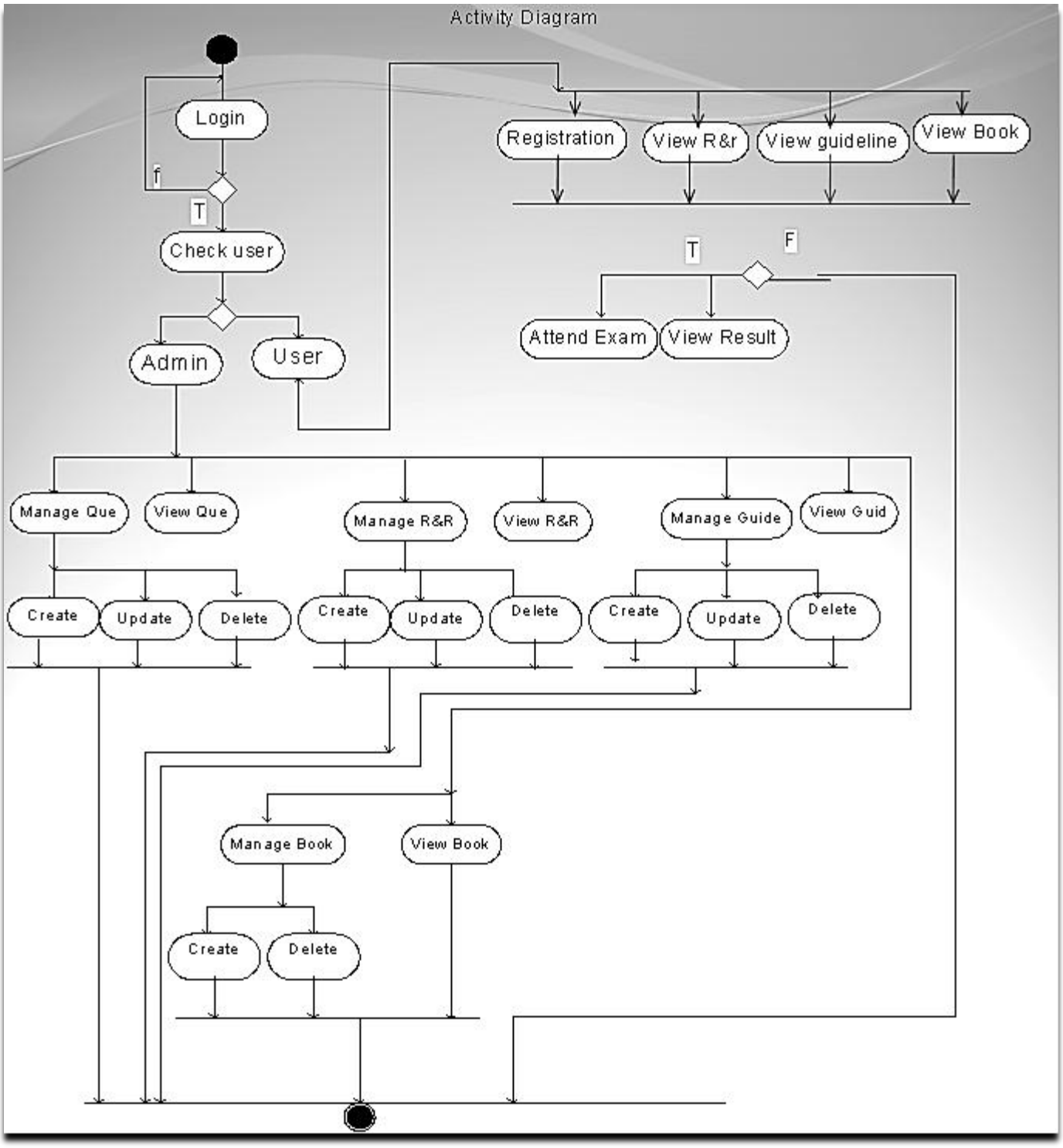

Figure 2: E-R diagram

Summary:

Working on this project has given us valuable experience. It has been like stepping on the first step of the staircase that leads towards building our career. It was our first experience of working in the atmosphere of a full fledges firm. We were taught the etiquettes that were requiring to be followed in office environment, which would be vary helpful to us for our future endeavours. At the time of practically executing our knowledge we were fortunate to have very cooperative and supportive project guide and colleagues. Their attitude toward us was very helpful.

Initially, when we stared developing the system and as and when the requirements poured in, It was really exciting for us to know that the things which initially look simple can include so many features, and developing it was a knowledgeable experience for us.

We took this opportunity to convey our special thanks to all those who played role in making this project a success and a great learning experience for us.