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## 1. Project Profile

<table>
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<th><strong>Project Title</strong></th>
<th>“Online Examination System”</th>
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<tr>
<td><strong>Project Goal</strong></td>
<td>This web application will provide the online examination for students. Students can register and select the exam which they want to give. Student can view the result immediately. Admin can manage the whole examination.</td>
</tr>
<tr>
<td><strong>Project Guide</strong></td>
<td>Mr. Prakash Gujarati and Ms. Rinkal Ambasana</td>
</tr>
<tr>
<td><strong>Team Size</strong></td>
<td>2</td>
</tr>
<tr>
<td><strong>Team Members</strong></td>
<td>Pooja Lunagariya, Dixita Lunagariya</td>
</tr>
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<td><strong>Language Used</strong></td>
<td>ASP.net</td>
</tr>
<tr>
<td><strong>Database</strong></td>
<td>SQL Server</td>
</tr>
<tr>
<td><strong>Project Duration</strong></td>
<td>December 2015 to March 2016</td>
</tr>
<tr>
<td><strong>Submitted To</strong></td>
<td>Shree M. &amp; N. Virani Science College, Rajkot.</td>
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</table>
2. Acknowledgement

We would express our sincere gratitude to Mr. A.U. Patel for giving us an opportunity to be a part of this Institution. It would be never possible without his support and encouragement.

We are thankful to Mr. Hitendra Donga & Mr. Stavan Patel Head of the Computer Department, who always encourage students for studies and our bright future. Thank you.

We indebted to Mr. Prakash Gujarati Labguide & Ms. Rinkal Ambasana Labguide for their suggestions they gave us to improve our Web-Site. Their friendly and humorous nature helped us to feel easy in new environment.

Many thanks to the staff members of VSC for their direct or indirect support and help.

We are very much obliged to Mr. Ravi Lakhani, Mr. Pradip Vanpariya & Mr. Amit Sagapariya to give us not only from books but also from your knowledge. Thanks for the challenges, you have made us face, for they gave us the courage to be leading every race.

And lastly we thank everyone that has caused us to suffer, without you we would have no reason to express ourselves.

Thanks a lot to all who help me to make this possible...
3. Introduction of the System

There are two main modules: students or user module and administrator modules. Admin is the primary user who can add, delete, modify any information in the system like adding new questions to test, generate reports, managing member profiles, whereas member module can register with application and update profile information and take tests.

Online Exams System provides the platform but does not directly participate in, nor is it involved in any tests conducted. Questions are posted not by the site, but users of the site. The site requires an institute to register before posting the questions.

The site has an administrator who keeps an eye on the overall functioning of the system. The site gets revenue by charging the institutes each time they want to conduct the exam.

The system entitled “Online Exams System” is application software, which aims at providing services to the institutes and providing them with an option of selecting the eligible students by themselves.
4. Proposed System

Online Exams System fulfills the requirements of the institutes to conduct the exams online.

Thus the purpose of the site is to provide a system that saves the efforts and time of both the institutes and the students.

Objectives of this System are as follows:

- To provide the better facility to students & admin.
- To provide as simple and consistent output as possible, this meets user requirements.

Detailed Description of the System

About the System:

"Online Examination" allows users to login based on his role, if its role is admin then show him the administrative pages, where he can create exam categories, add, edit and delete questions, answers and status, he can check the users and set their status etc.

If it’s a user and new to the test site then give him a registration form and through that he can register with the site. Registered users can login to the site and attend exam. Initially they can choose the exam type from the list then they can start exam. Questions will be showing from the "questions" table. Question, answers and Marks are stored in the table and also show to the user in the labels.

After a limited number of questions the exam will end and the result will be shown to the user online. Same time it also stores in to the data base.
-: 5. Resource Requirement Specification:-

❖ Hardware Requirement :-

✓ Intel core i5
✓ 500 MB RAM
✓ 20 G.B. Hard disk

❖ Software Requirement :-

o Operating System : Microsoft Windows 8
o Front-End : ASP.net
o IDE : Mozilla Firefox, chrome
o Back-End : SQL Server
6. Technology Study:

- Features Of The Tools Used:

SOFTWARE WHICH USE TO DEVELOP APPLICATION

- Microsoft Visual Studio 2010:

Microsoft Visual Studio is an integrated development environment (IDE) from Microsoft. It is used to develop computer programs for Microsoft Windows, as well as web sites, web applications and web services. Visual Studio uses Microsoft software development platforms such as Windows API, Windows Forms, Windows Presentation Foundation, Windows Store and Microsoft Silverlight. It can produce both native code and managed code.

Visual Studio does not include any source control support built in but it defines two alternative ways for source control systems to integrate with the IDE.

- SQL Server:

Microsoft SQL Server is a relational database management system developed by Microsoft. As a database server, it is a software product with the primary function of storing and retrieving data as requested by other software applications which may run either on the same computer or on another computer across a network (including the Internet).
Microsoft markets at least a dozen different editions of Microsoft SQL Server, aimed at different audiences and for workloads ranging from small single-machine applications to large Internet-facing applications with many concurrent users.

- **Internet Information Server (IIS):**

  A web server is a program connected to the World Wide Web (www) that furnishes resources from the web browser.

  Microsoft IIS is a web server integrated with Windows.NET server that makes it easy to publish information and bring business application to the web.

  Because of its tight integration with Windows NT server, IIS guarantees the network administrator and application developer the same security, networking and administrator functionality as Windows NT server. Above and beyond its use of familiar Windows NT server

  Tools and functionality, IIS also has built-in capabilities to help administer secure websites, and to develop server-intensive web application.
7. Project Planning

Feasibility Study:

Technical Feasibility:

Technical feasibility of a project determines whether a project can be developed using the technology on hand.

The system is technically feasible as the front-end and the back-end required for it is available and already installed.

System is developed by using ASP.net as a front end and SQL Server Database Server as a back end. For connecting remote site with user’s network we have to implement the site in IIS. In this way system will allow application to communicate with users.

Economic Feasibility:

The tools that will be used for the system are latest one and thus the cost involved in tools, designing and developing the system will be a good investment for the organization.

The benefits of using the system are not in monetary terms, but it increased interaction between Users & administrators. The modules designed can be easily navigated. The hardware available with the company is already the best available and hence no new purchase is required.
**Operational Feasibility:**

Operational feasibility covers two aspects. One is technical performance and other is acceptance by users.

The system is operationally feasible as it is very interactive and user friendly. It fulfills all the users’ requirements.

**Requirement Gathering And Analysis:**

Information is gathered through the help Internet viewing different tutoring site and the features and facility they have.

**User Characteristics**

✓ User – Anyone Who Want to Access this Site of the Institute.

The requirement for the project is gathered with the help of my project guide. Who himself is the client and the programmer. He also explained some risk and errors that might be occurred during the project development.

He helped to describe the module for the project and also to define function of each module. He also helped me to define database structure.
The various logical phases of the systems development are:

✓ Review of Underlying Systems and Procedure

Because software is a part of a larger system or business, work begins by establishing requirements for all system elements and then allocating some subset of these requirements to software.

✓ Software Design

Software Design is actually a multi-step process that focuses on four distinct attributes of program; data structure, software architecture, interface representations, and procedural details. The design process translates requirements into a representation of the software that can be assessed for quality before code generation begins based upon the functional specifications taking up design, developing, and concluding with the acceptance testing.

✓ Software Development

The design must be translated into a machine-readable form. The code generation step performs this task. If design is performed in a detailed manner, code generation can be accomplished mechanistically.
✓ **Testing and Implementation**

It includes testing and debugging software to find each error like to occur and fix it and then implementing the software across multiple devices.

✓ **Training and Maintenance**

It covers relevant training of project and providing post Implementation Support.

✓ **Parallel Operation**

At a time more than one user can access the application and store data into database.

✓ **Higher Order Language Requirement**

We are using ASP.net as a front end and SQL Server database as backend.

✓ **Safety and Security Consideration**

Without log into Login Form user can not access other facilities of the application.

For safety of user authentication we use session. When a user logoff his session is destroyed so other user can not access his/her data from the same PC.
8. Data Dictionary & Diagrams

- Diagrams

Software Development Life Cycle:

A framework that describes the activities performed at each stage of a software development project. The SDLC provides a structured and standardize process for all phases of any system development efforts.
Design:-

I design this website with different modules like admin module, user module, registration module, send emails.

Coding:-

After designing all the modules, coding for the modules process is started.

Testing:-

After coding all the different unit or module admin, user, registration the whole system will tested.

Maintenance:-

After testing if it will works properly without error then maintenance phase is performed.
**System Flow Chart for Users:**

1. **Start**
2. Enter valid email & password of Users
3. Is email & password is valid?
   - Yes: Allow to subject selection & Give Exam
   - No: End
System Flow Chart for Admin:

Start

Enter valid email & password of admin

Is email & password is valid?

Yes

Handle Users

No

End
✓ Context Level DFD:

```
[Diagram showing the relationships between Users, Administrators, and Online Examination with User Id & Password and Response flows.]
```
✓ 1st Level DFD:
Use Case Diagrams

User
- Register
- Login
- Change Password
- Manage Profile
- Select Subject
- Give Exam
- Get Result
- Contact us

Admin
- Login
- Manage Student
- Manage Exam
- Manage Result
- Delete Users List
- View contact us
ER Diagram :-

```
upfile
- file_id
- file_nm

feedback
- f_id
- username
- feedback

admin
- id
- username
- password

question
- q_id
- s_id
- question
- op_1
- op_2
- op_3
- op_4
- right_ans

subject
- s_id
- s_nm

result
- r_id
- u_id
- marks
- s_id
- date

register
- u_id
- username
- enrollment
- gender
- course
- mobileno
- email
- password
```
Data Dictionary Diagrams :-

1. Register Table:-

![Register Table Diagram]

2. Admin Table:-

![Admin Table Diagram]
3. Subject Table:

![Subject Table Image]

4. Question Table:

![Question Table Image]
5. Feedback Table:

![Feedback Table Image]

6. Result Table:

![Result Table Image]

7. File Table:

![File Table Image]
9. Project Screen Layout

- User
  - Register Page:

Users can register in this page.
✓ Login Page:

- Users can Login in this page.
✓ Home Page:-

Welcome To Our Website

Online Exam is a World-Wide Provider of Free, Online Exams. We exist to serve the education and testing markets and we’re proud to help you pass your upcoming exams. Feel free to surf our site, and if you have any questions, please contact us.

- It's absolutely free....
- Just Register for free and test your knowledge.

This is our home page. Give information about our website.
✓ **Select Subject:-**

- User can select subject.
User can give the exam.
Feedback:-

This is our feedback form and user can give feedback of our website.
✓ Change Password:

- This page is use to change password.
✓ **Update Profile:-**

- User can update his/her Profile.
- Admin can Login in this page.
 ✓ **Home Page:-**

**Online Exam Admin**

Welcome Admin

- This is Home page admin can perform all task.

 ✓ **View User:-**

**Online Exam Admin**

View Users

- Admin can View registered user and also delete that.
✓ Add Subject:-

Admin can add, update and delete subject in this page.
✓ Add Question:-

- Admin can add, update and delete Question on particular subjects.
**Feedback:-**

- Admin can view and delete the feedback of users.
✓ **Add File:**

- Admin can add and delete file.
-: 10. Conclusion:-

This Web Application provides facility to conduct online examination worldwide. It saves time as it allows number of students to give the exam at a time and displays the results as the test gets over, so no need to wait for the result. It is automatically generated by the server.

Administrator has a privilege to create, modify and delete the test papers and its particular questions. User can register, login and give the test with his specific id, and can see the results as well.
### 11. Project Schedule

<table>
<thead>
<tr>
<th>Index</th>
<th>Task Name</th>
<th>Start</th>
<th>Finish</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Analysis</td>
<td>03-12-15</td>
<td>06-03-16</td>
<td>95 days</td>
</tr>
<tr>
<td>2.</td>
<td>Layout</td>
<td>14-12-15</td>
<td>21-12-15</td>
<td>08 days</td>
</tr>
<tr>
<td>3.</td>
<td>Template</td>
<td>22-12-15</td>
<td>06-01-16</td>
<td>16 days</td>
</tr>
<tr>
<td>4.</td>
<td>Database</td>
<td>07-01-16</td>
<td>16-01-16</td>
<td>10 days</td>
</tr>
<tr>
<td>5.</td>
<td>Coding</td>
<td>17-01-16</td>
<td>22-02-16</td>
<td>37 days</td>
</tr>
<tr>
<td>6.</td>
<td>Testing</td>
<td>23-02-16</td>
<td>01-03-16</td>
<td>08 days</td>
</tr>
<tr>
<td>7.</td>
<td>Reporting</td>
<td>02-03-16</td>
<td>06-03-16</td>
<td>05 days</td>
</tr>
</tbody>
</table>
12. Testing:

Full system is divided into modules, so first of all modules are tested. The registration and login module is tested and check all the validation of the registration form are working properly or not. Then checking of the other pages was done.

1) Unit Testing:

Unit testing in I have a test for a One by one module create and test a module for a unit wise and find a error and solve this error.

2) Integration testing:

Integration testing implements a module code for a system and test for a work correctly or not. And error are occurs this time solve a problems of a error.

3) System testing:

All modules are completely created and implement than after fully system are testing for a system testing. That are in check a all modules are work successfully performed or a not.
13. References:

Web sites:

- www.stackoverflow.com
- www.w3schools.com
- www.tutorialspoint.com

Search Engines:

- www.google.com

Editor:

- Microsoft Visual Studio.