PROJECT PROPOSAL (SYNOPSIS)

ON

**ONLINE STUDENT PORTAL**

MASTER OF COMPUTER APPLICATION

**(MCSP-060)**

**Submitted by**

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Title of the Project

**ONLINE STUDENT PORTAL**

**INTRODUCTION**

Online student portal is a service where student of o university can get logged into the system and check his documents uploaded by university to his associated account.

Online student portal is a paperless portal where user can see his/her document are uploaded by university such ass documented result with signed and stamps. This is a portal where admin and student can access at the same time. This portal can be used to publish result of the student such as uploading degree of the student.

In online student portal a admin can access with his login credentials and get into his dashboard where admin can add students and add documents to the particular student.

**Features of Online Student Portal**

* Paperless: completely electronic service
* Eliminates Document forgery
* Low Cost
* Compliance with IT act
* Secure
* Machine friendly
* User friendly

This online student portal is created to manage the student’s documents online which is uploaded by an admin which is manages by university. This is very user friendly where admin can see all students in this portal with their images and can add new students to this portal where a password is generated for the user. And that password can be used for student login that will be given to the student manually because of security reason.

**OBJECTIVE OF THE PROJECT**

The aim of the project i.e. online student portal is all about student portal system from anywhere and anytime. The extra feature involved is the notification provided to the student via student portal. Our application is that it is secured in a way that only registered student can enter to the portal which have valid email and password i.e. generated by the admin.

**Main objectives are:**

* The Online student portal is meant to keep the security of the admin and the student associated with the portal.
* Student can see his/her documents
* Student can see his/her profile
* Admin can create student
* Admin can see student profile
* Admin can upload document associated to the student
* It is cost effective
* It has ease of use along with complete reference
* It is highly secured and less time consuming.
* Up to date records of the student maintained by Admin.
* Improvement of efficiency and effectiveness of the system by providing online facility to the organization and the students.

**Other objectives are:**

* User friendly interface
* A central database holds the key to the system.
* All forms are HTML template driven.
* Integration among all functional area.
* The availability of the information is easy.
* It automates the redundant tasks.
* It will save time and money.

**TOOLS/PLATFORM**

**REACTJS:** React is a JavaScript library for building user interfaces. It is maintained by Facebook and a community of individual developers and companies. React can be used as a base in the development of single-page or mobile applications.

**HTML:** Hypertext Markup Language is the standard markup language for creating web pages and web applications. With Cascading Style Sheets and JavaScript, it forms a triad of cornerstone technologies for the World Wide Web.

**CSS:** Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language like HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

**JAVASCRIPT:** JavaScript, often abbreviated as JS, is a high-level, interpreted programming language. It is a language which is also characterized as dynamic, weakly typed, prototype-based and multi-paradigm. Alongside HTML and CSS, JavaScript is one of the three core technologies of the World Wide Web.

**NODEJS:** Node.js is an open-source, cross-platform JavaScript run-time environment that executes JavaScript code outside of a browser.

**APACHE:** The Apache HTTP Server, colloquially called Apache, is a free and open-source cross-platform web server, released under the terms of Apache License 2.0. Apache is developed and maintained by an open community of developers under the auspices of the Apache Software Foundation.

**MONGODB:** MongoDB is a free and open-source cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with schemata**.**

**HARDWARE AND SOFWARE**

**SOFTWARE REQUIREMENT SPECIFICATION**

A set of programs associated with the operation of a computer is called software. Software is the part of the computer system, which enables the user to interact with several physical hardware devices.

The minimum software requirement specifications for developing this project as follows:

* **Operating system :** Windows 7 and above
* **Presentation Layer :** JavaScript
* **Database :** MongoDB
* **Documentation Tool :** Ms Office

**HARDWARE REQUIREMENT SPECIFICATION**

The collection of internal electronic circuit and external physical devices used in building a computer is called the hardware. The minimum hardware requirement specification for developing this project is as follows:

* **Processor :** Processor with minimum speed of 1.8 GHz
* **RAM :** 4 GB or more
* **Hard-disk :** 40GB
* **Monitor :** Standard color monitor

**PROBLEM DEFINATION**

* The current manual system has a lot paper work and it does not deal with old and new student.
* To maintain the records of sale and services manually, is a time consuming job.
* With the increase data in database, it will become a massive job to maintain the database.
* Requirement of large quantities of file cabinets which are huge and require quite a bit of space in the office, which can be used for strong records of previous details.
* The retrieval of records or previously registered students will be tedious jobs.
* Lack of security of the records, anyone disarrange the records of the system.
* If someone wants to check the details of the students they need to find all the documents, it will take time.

**PROBLEM**

* **Problem of Reliability:**  Current system is not reliable. It seems to vary in quality from one month to the next. Sometimes it gives good output, but sometimes the output is worst.
* **Problem of Accuracy:** There are too many mistakes in reports.
* **Problem of Timelines:** In the current system the report and output produced is mostly late and in most of the cases it is useless because it is not on time.
* **Problem of Economy:** The current system is very costly. We have to spend lots of money to keep the system up and going, but still not get the desired result.
* **Problem of Capacity:** The current system is suffering from problem of capacity also. The staff for organization is very less and the workload is too much. Few cannot handle all the work.

**ANALYSIS**

**DATA FLOW DIAGRAM**