**School Management & Information System**

### Submitted By

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## Supervised by

( )



Session (2017 - 2020)

Department of Computer Science

Mashal University Kabul, Afghanistan

**Certificate of Approval**

We approve the project proposal of Tamana Shah titled “School Management and Information System” submitted to Department of Computer Science, Mashal University in partial fulfillment of requirement for the degree of Bcs.

**Engr. ( )** \_\_\_ \_\_\_\_\_\_\_\_\_\_

Supervisor

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Evaluation Committee Head

**Engr. Noor Abdul Aziz** \_ \_\_\_\_\_\_\_\_\_\_

FYP Coordinator, CS

**Introduction:**

My project for School Management and Information System is system which facilitate easy access of the educators and students to the information which is needed during their educational term.

By development of the this project I can assume which most of the existing problems of the educators and students can be solved. Which this section generally covers information about the subjects, exams, teachers, students, attendance of personal and students, documentation of the personal and students and many more options that makes the educational terms in the ground for all in school.

**Problem Statement:**

This project School Management Information System apply an advanced process of daily paper works of the schools.

It clarify and make more clear the data and information for the school stakeholders specially for students. All students can check their input data online by observation of their attendance, subjects, exams, and many more issues as well as the personal and teachers whom are involving in the process of a school procedure advancement with interaction with the system can feel a all the information under the clicks.

**Objectives:**

The objectives of the project will be in many more fields. As in Afghanistan we have in all administrative the traditional documentation by development of the this Management and Information System the stakeholders of one school access to the system anytime and anywhere with accurate data and on time. Which this process prohibits from traditional and boring and time consuming system.

**Methodology:**

To develop such a essential project with high quality we need a special methods. As I am developing this project assume different methods in requirement gathering, designing, coding, testing and development and final assessment by the assigned team of the Mashal University and their comments at the end if Any.

This system will be developed in front end, backend and SQL SERVER.

The Front End will be developed in CSS, Bootstrap, HTML.

The Back End will be developed in ASP.NET C#.

The database will be developed in SQL Server.

A project can be divided into four major phases as follows:

* 1. Design phase:

At this phase there will be design of the entire application which assist the users to interact with the system and the interface of the application would be UI/UX will be designed friendly in (Bootstrap, CSS) for the stakeholders and users.

The design parts of the project will be the Front End, Backend and Database Design which would include of the tables and its relationships. The design will be ERD and DFD designs.

The database design would include of all table description which hold in each fields would be placed in tables for later understanding of the complete database.

The Object Oriented part of the application that is classes, objects, methods, and related code portions designed in diagrams like MS Visio.

The application also would consist of the Graphic User Interface GUI design for better understanding of the application. All the designs would be done in CSS/HTML/ BOOTSTRAP.

* 1. Implementation phase:

After completion of the design phase following is phase of the development is consisting front end, backend and database section the coding will be done in front end in HTML/ CSS/ BOOTSTRAP. The backend will be coded in ASP.NET C#.

The database will be developed in SQL SERVER with all tables and relationships and designing.

* 1. Testing phase:

Test phase coverage will be as below:

Coverage can be segregated over 3 areas of the project; based on the customer requirements, the logical paths of the code and code coverage. Are your test scripts evaluating all the customer requirements provided before the project can be evaluated based on Test Design coverage.

TEST DESIGN COVERAGE = Total number of requirements mapped to Test Cases / Total number of Requirements

Automation Test Coverage is another parameter which evaluates the number of manual test cases that could be executed as automated scripts.

AUTOMATION COVERAGE = Number of manual test cases automated / Total number of test cases

* 1. Evaluation phase:

The evolution of the phase can be conducted by Instructor for any comments and suggestion for more development of the project.

**Block Diagram:**

The block diagrams for the project will be designed in UML and some feature for instruction would be drawn in MS. Paint.

The database tables all designs and description would be printed in the paper for better understanding of the developed.

**Applications/Features:**

The feature of the application will be generally student, user, admin login pages/ exams and result pages, attendance, and some another necessary modules which make the project useable and solve the daily problems of the schools.

**Gantt Chart:**

The Gantt chart of the project will be as follow:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Work/Schedule Plan | **Month**  **Year** | **Month**  **Year** | **Month**  **Year** | | **Month**  **Year** | **Month**  **Year** | **Month**  **Year** |
| Requirement Gathering | **14/12/20**  **31/12/20** |  |  | |  |  |  |
| Designing |  | **1/1/21**  **20/1/21** |  | |  |  |  |
| Implementation |  |  | **21/1/21**  **20/2/21** | |  |  |  |
| Testing |  |  |  | | **21/2/21**  **28/2/21** |  |  |
| Thesis writing |  |  |  |  | | **14/12/20**  **28/2/21** |  |

**References:**

Reference for this project:

[1] Ahmad Shah Massoud High school stakeholders.