



Project Proposal
of
School Management System
For
MR/ Zahira Maha Vidyalaya

M.R.F. Ahmed

Index No: 1220642



Project Proposal

Academic Year 2019

Candidate Details

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Supervisor/Advisor Details

	Supervisor 1 (IT Related)
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Designation	Consultant - Technology
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Academic/ professional/ qualifications and memberships	BIT (UCSC)
Work experience	3+ years of experience of Software Development
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Project Details

Title of Project:

School Management System for MR/ Zahira Maha Vidyalaya

Name and address of client:

MR/ Zahira Maha Vidyalaya

Welipitiya,

Weligama

Motivation for the project:

- Final year project is an important module of the Bachelor of Information Technology degree programme of University of Colombo School of Computing. Therefore doing this project fulfils the above requirement.
- Use the opportunity to upgrade my ability and apply the knowledge which was gained during the degree programme.
- Developing a web based solution to gain knowledge and good experience to face industrial level demands.
- MR/ Zahira Maha Vidyalaya is interested to introduce a computerized solution to their administration works of their staff and students.
- Providing a software solution to MR/ Zahira Maha Vidyalaya to convert administration works from traditional way to modern way.
- Providing a web based solution to MR/ Zahira Maha Vidyalaya to facilitate them to manage students and staff information management and to manage their financial information from anywhere.

Objectives and scope of proposed project:

- Manage users with different roles and role based privileges.
- Manage information on student's statistic and academic history.
- Manage information on staff.
- Manage information on parents or guardians.
- Manage of report cards, academic history of school and students etc.
- Capture of Financial information
- Manage tests and exam results.
- Manage automatic preparation of results sheet.
- Manage student analytical and statistical report.

Critical functionalities of the project:

- End of the year create a statistical report to analyse student's performance.
- Manage users with different roles and role based privileges.

Itemized list of deliverables of the system:

- Project proposal
- Source code of the system
- The working School Management System
- User guide
- Reports

Work Breakdown Structure

Web based school management system

1. Problem identification
 - 1.1 User problem identification
 - 1.2 Define problem
 - 1.3 Write chapter 1 of Dissertation- Introduction
2. Requirement Analysis
 - 2.1 Requirement gathering
 - 2.2 Requirement analysis
 - 2.3 Requirement specification
 - 2.4 Write chapter 2 of Dissertation - Analysis
3. Design
 - 3.1 Process design
 - 3.2 Database design
 - 3.3 User interface design
 - 3.4 Write chapter 3 of Dissertation – Design
4. Development
 - 4.1 Database development
 - 4.2 Web page development
 - 4.3 Integrate web pages
 - 4.4 Write chapter 4 of Dissertation - Implementation
5. Testing
 - 5.1 Unit test
 - 5.2 Integration test
 - 5.3 System Test
 - 5.4 Acceptance test
 - 5.5 Write chapter 5 of Dissertation - Evaluation
6. Deployment
 - 6.1 Installation
 - 6.2 User training
 - 6.3 Write chapter 6 of Dissertation - Conclusion
7. Finalize the dissertation
 - 7.1 Add appendix
 - 7.2 Finalize dissertation

A project plan using Gantt chart:

	Task Name	Duration	Start	Finish	Q1			Q2			Q3		
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	School Management System	163d	03/25/19	09/30/19									
2	1. Problem Identification	14d	03/25/19	04/09/19									
3	1.1 User problem identification	5d	03/25/19	03/29/19									
4	1.2 Define problem	4d	03/30/19	04/03/19									
5	1.3 Write chapter1 of dissertation - Introduction	5d	04/04/19	04/09/19									
6	2. Requirement Analysis	25d	04/10/19	05/08/19									
7	2.1 User problem identification	8d	04/10/19	04/18/19									
8	2.2 Define problem	8d	04/19/19	04/27/19									
9	2.3 Define problem	4d	04/29/19	05/02/19									
10	2.4 Write chapter 2 of dissertation - Analysis	5d	05/03/19	05/08/19									
11	3. Design	30d	05/09/19	06/12/19									
12	3.1 Process design	6d	05/09/19	05/15/19									
13	3.2 Database design	10d	05/16/19	05/27/19									
14	3.3 User interface design	10d	05/28/19	06/07/19									
15	3.4 Write chapter 3 of dissertation - Design	4d	06/08/19	06/12/19									
16	4. Development	55d	06/13/19	08/15/19									
17	4.1 Database development	10d	06/13/19	06/24/19									
18	4.2 Module development	20d	06/25/19	07/17/19									
19	4.3 Integrate modules	20d	07/18/19	08/09/19									
20	4.4 Write chapter 4 of dissertation - Implementation	5d	08/10/19	08/15/19									
21	5. Testing	28d	08/16/19	09/17/19									
22	5.1 Unit testing	10d	08/16/19	08/27/19									
23	5.2 Integration testing	10d	08/28/19	09/07/19									
24	5.3 System testing	4d	09/09/19	09/12/19									
25	5.4 Write chapter 5 of dissertation - Evaluation	4d	09/13/19	09/17/19									
26	6. Deployment	7d	09/18/19	09/25/19									
27	6.1 Installation	2d	09/18/19	09/19/19									
28	6.2 User training	3d	09/20/19	09/23/19									
29	6.3 Write chapter 6 of dissertation - Conclusion	2d	09/24/19	09/25/19									
30	7. Finalize dissertation	4d	09/26/19	09/30/19									
31	7.1 Add appendix	2d	09/26/19	09/27/19									
32	7.2 Finalize dissertation	2d	09/28/19	09/30/19									

Resource requirements for project:

Hardware Requirements
Core i3 or higher processor 2Gb or above Random Access Memory 40Gb or higher Hard disk
Software Requirements
<u>Documentation</u> Microsoft word 2013 Smart sheet Microsoft visio 2010 Adobe Reader XI
<u>Developing Tools</u> PHP Netbeans MySQL server Apache Tomcat Web browsers (Google chrome, Firefox)
<u>Operating system</u> Windows 7

Proposed way of evaluating the success of the system:

- Testing during the system development
Test the system during the development stages by each module (Unit test), after integrating the system (Integrating testing), System test and Acceptance test. After the ending of each module's development get feedback from the supervisor.
- System security test
The system is given to a security expert to check security level of the system
- Measure the usability of the system
Selected number of end users will be given to use the system for a period of time and get feedback
- Performance can be measured using testing tools which consist of functions, threads and simultaneous access.