Business Requirement Spec

SERI India

04th Feb 2016

Introduction

**Purpose**

The purpose of this document is to outline and confirm the scope and functionalities with the client.

This document provides detailed description of all baselined project requirements and how the project functions/modules will work. This description are not the final rules and once built or during build there will be marginal scope for improvements and modifications.

The document also explains the Phase 1 requirements and understanding of project to be completed and go-live by March’ 2016 end. A top-line project dates are given below in the document, Annexed as Point 8.

Document History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Role** |
| 05th February 2016 | 1.0 | Initial Draft | BA |
| 07th February 2016 | 1.1 | Reviewed and Changed | PM |
| 09th February 2016 |  | Reviewed and Changed |  |

## Overview

### Project Objectives

               The key objectives of the solution would be:

1. To create an enhanced SERI India Board Management System by providing users with a great user experience along with effective navigation and content organisation.
2. To create a responsive web design for mobile, tablet and desktop users for rich experience

## User Roles and Access Permissions

The SERI application will be accessible to the following users:

* **Super Admin** – Super Administrator can manage everything inside the system via a secured login. Super administrator can CRUD states and assign sub-administrators to those respective states.
* **Sub-Admin** – Sub Administrators can manage the schools in their attached respective state. They can create and manage schools, school administrators, teachers, parents, students….There will be one and only one state-wise admin per state.

*There are currently around 50 schools with 100 teachers per school and around 500 students per school.*

* **School Admin** – They can manage everything about a school. There will be one and only one School Administrator per school
* **Teachers** - Teachers are allowed to manage their classes, homework and students etc..
* **Students** - Can view their homework, attendance etc…
* **Parents** – Can view details, reports of their child.
* **Alumni** – These users can use the system for various alumni activities detailed below.
* **Visitors** – There are no visitor allowance on the application.

*All of the users will sign-in/login via a single login screen.*

## Key Considerations

|  |  |
| --- | --- |
| **Features/Sub-Features** | **Notes/Comments** |
| **Browser Compatibility** | * The site will support all current browsers * IE 9+ * Chrome v44 * Firefox v39 * Opera 30 * Safari 8 * Chrome for Android 42 * Android Browser 40 * We will add a browser alert for users of older browsers that the site may not work properly for them. |
| **Device Support** | * Desktop * Laptop * iPad * Android Tablet * iOS and Android Mobile Phones |
| **General** | SSL: Yes [To be purchased by SERI]  SEO: Not to be considered  Security: Yes. To be detailed  1 email-id per school is created  Domain and Hosting: Access and managed by SERI  www.seriindia.org is the live site |
| **Testing** | * UI/UX testing * Functional testing * Non Functional Checks * Cross-browser/responsive testing |
| **Phase 2 Considerations** | * Reporting * Printing activities * Any other module undefined or not listed in this document   (all phase 2 considerations can be taken as separate module post Phase 1) |

## Technologies Used

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| --- | --- |
| **Features/Sub-Features** | **Notes/Comments** |
| **Platform** | Core PHP – Code Igniter |
| **Database / Language** | mySQL 5.x / PHP 5.4.x |
| **Main Fonts Used** | Aller Light Regular [To get from SERI] |
| **QA/UAT link** | [TBD] |
| **Live Link** | [TBD SERI] |
| **Design Stylesheet** | [To get from current provider – SERI]  [at least the colour stylesheet of home page] |

## Functional Requirements

| **SCHOOL FUNCTIONALITIES** | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Area &**  **Req. ID** | **Requirement** | **Users Permission and Access** | | | | | | | **Requirement Details** |
|  | **Super Admin** | **Sub-admin** | **Principal** | **Teacher** | **Parent** | **Student** | **Alumni** |  |
| **General**  **REQ-FR-01** | Create and Manage users | x | x | x | - | - | - | - | All users can only be managed by their superior users. The users listed in the permission matrix are in actual access level order.  Q. How will users get to know that there users are created in system? Via email?  Yes via email they will get detail  Q. Can we define the profile fields of all users?  Yes we will define profile fields (some fields will editable for users) |
| **School**  **REQ-FR-02** | Create, Manage and View details of the Management | x | x | x | - | - | - | - | Management means?  Create and Manage management of school by school admin. Responsible is school admin for managing the management.  Management includes HOD, teachers etc. |
| **School**  **REQ-FR-03** | Create, Manage and View details of the principal | x | x | - | - | - | - | - |  |
| **School**  **REQ-FR-04** | Create, Manage and View All H.O.D’s Details | x | x | x | - | - | - | - | Will HODs be users or actually principal itself?  What will be the role of HOD in system?  Subject and section wise – HOD. |
| **School**  **REQ-FR-05** | Create, Manage and View Teachers | x | x | x | - | - | - | - |  |
| **School**  **REQ-FR-06** | Manage all details of the Teachers.   * Attendance details of the entire staff * Salary of the staff * Staff performance * Extra activities of Teachers * Work Report |  |  |  |  |  |  |  | Salary will be added by Principal?  School administrator will add salary  Who will add extra activities of teacher?  School administrator, HOD and principal  How are we going to judge staff performance?  Through activities done by teacher and feedback from parents, student and HOD or principal  What is work report?  Please do it in Phase 2 |
| **School**  **REQ-FR-07** | Upcoming School Events   * Notifications from School * Practical Information * No. Of classrooms * No. Of Students :   + Section wise   + Class wise   + Subject wise |  |  |  |  |  |  |  |  |
| **Area &**  **Req. ID** | **Requirement** | **Users Permission and Access** | | | | | | | **Requirement Details** |
| **Super Admin** | **Sub-admin** | **Principal** | **Teacher** | **Parent** | **Student** | **Alumni** |
| **School**  **REQ-FR-08** | Teacher Training Programme   * Instructions for Teachers day-wise |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-09** | * Student ID from the School * Parent ID from the School * Teacher ID from the School | x | x | x | - | - | - | - | (The Password must be created by the User only)  System will generate a password for them and on very first login, user will be asked to change the password. |
| **School**  **REQ-FR-10** | Syllabus can be added | - | - | x | X | - | - | - |  |
| **School**  **REQ-FR-11** | View Syllabus | x | x | x | x | x | x | - |  |
| **Area &**  **Req. ID** | **Requirement** | **Users Permission and Access** | | | | | | | **Requirement Details** |
| **Super Admin** | **Sub-admin** | **Principal** | **Teacher** | **Parent** | **Student** | **Alumni** |
| **School**  **REQ-FR-12** | Online test for teachers to enhance their knowledge apart from studies (general knowledge, current affairs etc.)   * Feedback from the Teachers * Feedback from the students * Feedback from the Parents * Feedback from the Alumni |  |  |  |  |  |  |  |  |
| **Area &**  **Req. ID** | **Requirement** | **Users Permission and Access** | | | | | | | **Requirement Details** |
| **Super Admin** | **Sub-admin** | **Principal** | **Teacher** | **Parent** | **Student** | **Alumni** |
| **TEACHERS FUNCTIONALITIES** | | | | | | | | | |
| **School**  **REQ-FR-13** | Teachers can login | - | - | - | x | - | - | - |  |
| **School**  **REQ-FR-14** | Teacher Training Programs |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-15** | Create and Manage Teacher Profile | x | x | x | x | - | - | - |  |
| **School**  **REQ-FR-16** | View Teacher Profile | x | x | x | x | x | x | x |  |
| **School**  **REQ-FR-17** | Create and Manage Instructions from the School | - | - | x | - | - | - | - |  |
| **School**  **REQ-FR-18** | View Instructions from the school | x | x | x | x | x | x | - | Are there any categories of instructions?  No need we can give through subject of instruction |
| **School**  **REQ-FR-19** | Parent Interaction 24X7 (Any time) |  |  |  |  |  |  |  | Believing that it will happen through inbox’ing |
| **School**  **REQ-FR-20** | Identify slow learner students from the data of school |  |  |  |  |  |  |  | Phase 2 |
| **School**  **REQ-FR-21** | Homework and classworks can be assigned for the next day. | - | - | x | x | x | x | x | Are there any upload of images/document also required?  It will require and student can also submit their assignment  How will student see these? In an back-end interface or emailed to them?  assignment section in back-end |
| **School**  **REQ-FR-22** | Homework and classwork can be seen | x | x | x | x | x | x | - |  |
| **School**  **REQ-FR-23** | Teachers can access their class data only |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-24** | Syllabus must be shown Unit Wise |  |  |  |  |  |  |  | Unit means class or subject?  Chapter wise of a subject |
| **Area &**  **Req. ID** | **Requirement** | **Users Permission and Access** | | | | | | | **Requirement Details** |
| **Super Admin** | **Sub-admin** | **Principal** | **Teacher** | **Parent** | **Student** | **Alumni** |
| **PARENTS FUNCTIONALITIES** | | | | | | | | | |
| **School**  **REQ-FR-25** | After entering ID, the Parents can create their own password. |  |  |  |  |  |  |  | Who will create the actual users for the very first time?  At the time of enrolling student it will create automatically and detail will be sent to parent email id |
| **School**  **REQ-FR-26** | Every parent can see the performance of their Child: (a) Class wise  (b) subject wise  (c) section wise |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-27** | Direct Interaction with the School Management |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-28** | Direct interaction with the Class Teachers |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-29** | Direct interaction with the Subject Teachers |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-30** | Direct interaction with the Principal of the School |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-31** | The Parents can see all the operations of the school and all the operations of the class |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-32** | All the notifications of the School |  |  |  |  |  |  |  | Who will add the notifications?  School administrator or principal |
| **School**  **REQ-FR-33** | View All the extra activities in School |  |  |  |  |  |  |  | Who will add these?  School administrator or principal |
| **School**  **REQ-FR-34** | Delivery Report of Syllabus |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-35** | Assignment work for the next day |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-36** | Meet all the Parents feedback |  |  |  |  |  |  |  |  |
| **Area &**  **Req. ID** | **Requirement** | **Users Permission and Access** | | | | | | | **Requirement Details** |
| **Super Admin** | **Sub-admin** | **Principal** | **Teacher** | **Parent** | **Student** | **Alumni** |
| **STUDENTS FUNCTIONALITIES** | | | | | | | | | |
| **School**  **REQ-FR-37** | After entering ID, students can create their own password |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-37.1** | Student have to change their profile pic every year and admin can see the history of the same |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-38** | The Students can see their profile |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-39** | They can see all the Syllabus and details of the class |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-40** | Estimate of the time delivery of lectures , day and time of lecture |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-41** | All upcoming study details  All notifications |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-42** | The students can see their performance in their class as well as sections:  (a) Class wise  (b) Subject wise  (c) Marks wise  (d) Test wise |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-43** | Direct Interaction with the Class Teachers |  |  |  |  |  |  |  | This means that teacher will be divided into two categories? Class teacher and subject teacher?  student can choose to whom they want to contact  subject teacher-class teacher- HOD-principal –school administrator |
| **Area &**  **Req. ID** | **Requirement** | **Users Permission and Access** | | | | | | | **Requirement Details** |
| **Super Admin** | **Sub-admin** | **Principal** | **Teacher** | **Parent** | **Student** | **Alumni** |
| **School**  **REQ-FR-44** | Direct Interaction with the Subject Teachers |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-45** | They can see their Monthly, quarterly, half yearly and Yearly Performance Report. |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-46** | They can create their aims and objectives |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-47** | Their actions to achieve these aims and objectives |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-48** | Steps to achieve their goals and Objectives. |  |  |  |  |  |  |  |  |
| **ALUMNI FUNCTIONALITIES** | | | | | | | | | |
| **School**  **REQ-FR-49** | With the same ID and Password they can update their profile. |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-50** | They can meet their Teachers |  |  |  |  |  |  |  | What is the gap duration the users can send emails to each other? |
| **School**  **REQ-FR-51** | They can meet their classmates |  |  |  |  |  |  |  |  |
| **School**  **REQ-FR-52** | They can see all the upcoming events and notifications of the school |  |  |  |  |  |  |  | Who will add the upcoming events of a school?  School administrator  Can alumni delete themselves from the system?  Yes he can out from the system |
| **School**  **REQ-FR-53** | Feedback System |  |  |  |  |  |  |  |  |
| GENERAL FUNCTIONALITIES | | | | | | | | | |
| **School**  **REQ-FR-54** | Inbox’ing Functionality | x | x | x | x | x | X | x | Inbox/Email like functionality needed for a simplistic communication between different users, as defined in the matrix below. |

**Inbox Matrix**

|  | **Super Admin** | **Sub-admin** | **Principal** | **Teacher** | **Parent** | **Student** | **Alumni** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Super Admin** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| **Sub-admin** | **x** | **-** | **x** | **x** | **x** | **x** | **x** |
| **Principal** | **x** | **x** | **-** | **x** | **x** | **x** | **x** |
| **Teacher** | **x** | **x** | **x** | **-** | **x** | **x** | **x** |
| **Parent** | **x** | **x** | **x** | **x** | **-** | **x** | **x** |
| **Student** | **x** | **x** | **x** | **x** | **x** | **-** | **x** |
| **Alumni** | **x** | **x** | **x** | **x** | **-** | **-** | **-** |

## Sample Designs Screenshots of Solution:

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## Other Inputs Required

## Top Line Project Dates

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