The South Indian Association's
The S.I.A. College of Higher Education
Affiliated to University of Mumbai
Accredited B+ by NAAC
P-88, MIDC Residential Area Dombivli
Gymkhana Road,
Near Balaji Mandir, Dombivli (East), 421203.

6.3.2 ERP Documents

The South Indian Association's
The S.I.A. College of Higher Education
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P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Dated: 02/02/2017

To

The Principal
The S.I.A. College of Higher Education

Sub: Project Proposal for the automation of examination process

Dear Mam

I, S. Sai Sree, working as an Assistant Professor in the Department of Information Technology and Mathematics would like to propose a development of software. It has been observed that the examination result processing can be automized and all the reports in accordance with the policies and guidelines of University can be generated. I request you to give me an opportunity to develop the software for the benefit of the college. I would like to involve Mr. Sunil Gaonkar from office in the development of the software.

Thanking you

Regards

S. Sai Sree
Assistant Professor
Dept of IT & Mathematics

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Email: office@thesiacollege.com Website:thesiacollege.com

Dated: 18/01/2018

To

Mrs. S. Sai Sree
Assistant Professor
Dept of It & Mathematics

Sub: Acceptance of Project Proposal

Mam

With reference to your letter, I here by approve your request to add admission module in the Esanchalan software

Regards

Principal

The S.I.A. College of Higher Education

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

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Email: office@thesiacollege.com Website:thesiacollege.com

Dated: 06/04/2017

To

Mrs. S. Sai Sree
Assistant Professor
Dept of It & Mathematics

Sub: Implement the Esanchalan Software

Mam

This is to inform you that you your trial run is successful and you can now go ahead and implement the Esanchalan Admission Software in the college

Regards

Raghuraj

Principal
The S.I.A. College of Higher Education

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

THE S.I.A. COLLEGE OF HIGHER EDUCATION * DOMBIVLI

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Email: office@thesiacollege.com Website:thesiacollege.com

Dated:03/04/2017

To

The Principal
The S.I.A. College of Higher Education

Sub: Request for project Demonstration and trial run

Dear Mam

The ESanchalan examination software has been successfully developed. I request you to give me a date for project demonstration and starting of the trial run on 5th April 2017.

Thanking you

Regards

S. Sai Sree
Assistant Professor
Dept of IT & Mathematics

THE SOUTH INDIAN ASSOCIATION'S
THE S.I.A. COLLEGE OF HIGHER EDUCATION
(Affiliated to Mumbai University)
NAAC Accredited "B+" Grade

Project Name	E-Sanchalan Examination Software
Guide Name	Mrs. S. Sai Sree & Mr. Sunil Gaonkar & Mrs. Vandana Jadhav
Background	The e-suvidha software was used for processing the examination and generate results. The Universty of Mumbai modified policies to be followed while generating Students Result for the lower exams in the academic year 2016-17. The earlier software used was not catering to the given requirements and was not user friendly. So there was a requirement of a new software functioning in accordance with the policies and standards of University of Mumbai
Objectives	To Process the results as per university guidelines for the semester end examinations To Generate the consolidated flowsheet of the students appeared for the examinations To Generate Exam related reports like consolidated and grade card To Check eligibility& Promotion of students to the next academic year To Maintain the historical examination data of the students. To fullfil the requirements of the University/AISH/MISH/Roll call/NAAC
Scope of Work	Computerization of entire examination process A10 To reduce errors and manual work To reduce man hours To improve efficiency and accuracy
Key Stake Holders	
Client	The S.I.A. College of Higher Education
Project Manager	Mrs. S. Sai Sree & Mr. Sunil Gaonkar & Mrs. Vandana Jadhav
TimeFrame	

Modules	Description of Work	Start Date	End Date	No. of Days

Examination	Course wise and subject wise mark entry. application of resolution & ordinance according to University guide lines . Generate flow sheet and all other reports required for examination result processing.	04-02-2017	06-04-2017	61
Examination	Checking eligibility and promotion Grade card printing	03-07-2017	29-09-2017	88
Examination	Linking of ATKT Fees with ATKT Examination to enable the marks entry	16-08-2018	04-09-2018	19
MIS Reporting	Grade wise failure list	06-04-2017	15-04-2017	9
	Subject wise topper's list	02-01-2018	10-01-2018	8
	Semester wise topper's list	11-01-2018	17-01-2018	6
	Overall topper's list	18-01-2018	23-01-2018	5
	ATKT Students list Generation	03-08-2018	14-08-2018	11
	Attendance report	05-10-2018	11-10-2018	6
	Result analysis	25-11-2018	16-12-2018	21
	Student Progression Report	05-03-2019	29-03-2019	24
	Students Strength caste wise, gender wise	10-07-2019	20-07-2019	10
	Subject wise failure list	22-07-2019	31-07-2019	9
	Gender wise Result analysis for AISH/MISH	03-10-2019	19-10-2019	16
	NAAC Criteria 2 Examination report	01-12-2019	20-12-2019	19
				0
	Total Man Days			312

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

Technology Used	SQL Server 2012, Netbeans 7.2, Jasper Reports
Hardware	Intel i5 processor, 4GB RAM Minimum

Project Members Details

Class	Name	Roll No.	Contact Nos.
	Remark: Since the software contains highly confidential information no students were involved in the project		

Approval Signatures

Client

Principal

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

Project Manager

THE SOUTH INDIAN ASSOCIATION'S
THE S.I.A. COLLEGE OF HIGHER EDUCATION
(Affiliated to Mumbai University)
NAAC Accredited "B+" Grade

Project Name	E-Sanchalan Fee Collection Module
Guide Name	Mrs. S. Sai Sree & Mr. Sunil Gaonkar & Mrs. Vandana Jadhav
Background	Earlier fee collection and issue of receipt was manual. Maintenance and reconciliation was difficult. So there was a requirement for automization of fee collection
Objectives	To automize Fee collection and maintain year wise and student wise fee outstanding To generate XML file for posting in Tally
Scope of Work	As the students who got admission increased, the manual labour became erroneous. So to curtail the errors, and make the process fast and efficient the software was developed

Key Stake Holders

Client	The S.I.A. College of Higher Education
Project Manager	Mrs. S. Sai Sree & Mr. Sunil Gaonkar & Mrs. Vandana Jadhav

TimeFrame

Modules	Description of Work	Start Date	End Date	No. of Days
Academic Fee Collection	Once the admission for is successfully submitted, the students fees are collected and their details are entered in the system year wise and course wise and the receipt is printed	16-06-2017	04-07-2017	18

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

Miscellenous Fee Collection	The user can create miscellenous fee heads academic year wise along with the amount to be collected The students miscellenous fees entry is made and receipt is generated for the same	05-07-2017	30-07-2017	25
XML File Generation	The XML file that needs to be posted in Tally is created both for academic and Miscellenous fees for both Cash , Cheque & Netbanking payment.	25-11-2017	24-12-2017	29
Fee Receipt	Acadeemic Fee Receipt Miscellenous Fee Receipt	01-08-2017	17-08-2017	16
Academic Fee Report	Academic Fee Register Course wise outstanding report Student wise outstanding report Overall outstanding report	19-08-2017	21-09-2017	33
Miscellenous fee report	Miscellenous fee register Group wise fee register	20-09-2017	15-10-2017	25
Process for online payment updation	A template is created to process all the online payments made by the students in the bank. The template is then uploaded in the system & posted in fee register table. Fee receipts are generated.	01-11-2017	24-11-2017	23

THE SIA COLLEGE OF HIGHER EDUCATION DOMBIVLI

	Total days			169

THE S.I.A. COLLEGE OF HIGHER EDUCATION * DOMBIVLI

Technology Used	SQL Server 2012, Netbeans 7.2
Hardware	

Project Members Details

Class	Name	Roll No.	Contact Nos.

Approval Signatures

K.V. Ranganathan
Client

Padmaja
Principal

Project Manager

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

THE S.I.A. COLLEGE OF HIGHER EDUCATION * DOMBIVLI

The South Indian Association's
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P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Date : 20/4/2017

To,

The Principal,

The S.I.A. College of Higher Education

Dombivli East 421201

Respected Madam,

We are glad to inform you that we have successfully completed the Balaji Temple website designing project with Team member/s Mr. Ravi Sheshadri and Mr. Nilesh Khot under the guidance of Mrs. Nandini Kadam and Mrs. Sandhya Pandey.

The software developed is tested and errors have been rectified.

The site hosting part is still remaining from the client side.

Hereby providing you the details of project

Thanking you

Project In-charge

S.I.A. Techlink (Incubation Center)

The South Indian Association's
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(Affiliated to University of Mumbai)
P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Date : 22/4/2017

To,

The Principal,

The S.I.A. College of Higher Education

Dombivli East 421201

Sub : Appointment of Project guide and Development Team

Respected Madam,

With reference to the letter regarding Website Development for The Balaji Temple we are appointing the team for following members

Mrs. Sandhya Pandey	-	Project Guide
Mrs. Nandini Kadam	-	Project Guide
Mr. Ravi Sheshadri	-	Developer
Mr. Nilesh Khot	-	Developer

We also require 1 computer with P4 Processor and 2GB RAM, Graphics card supporting DirectX 9.0c with Visual Studio 2010, or Visual Studio 2012, NET Framework 4 or 4.5 software installed in it.

Thanking you

Sandhya Nandini

Project In-charge

S.I.A. Techlink (Incubation Center)

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

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P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Dated: 17/01/2018

To

The Principal
The S.I.A. College of Higher Education

Sub: Project Proposal for the automation of examination process

Dear Mam

I, S. Sai Sree, working as an Assistant Professor in the Department of Information Technology and Mathematics would like to propose to add admission module in the Esanchalan software where in we are able to track the students taking admission in our college and also record all accounting information required by the college. I would like to involve Mr. Sunil Gaonkar from office in the development of the software.

Thanking you

Regards

S. Sai Sree
Assistant Professor
Dept of IT & Mathematics

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

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Email: office@thesiacollege.com Website:thesiacollege.com

Dated: 04/02/2017

To

Mrs. S. Sai Sree
Assistant Professor
Dept of It & Mathematics

Sub: Acceptance of Project Proposal

Mam

With reference to your letter, I here by approve your request to automize the examination process and develop Esanchalan Examination software.

Regards

Principal

The S.I.A. College of Higher Education

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

THE S.I.A. COLLEGE OF HIGHER EDUCATION * DOMBIVLI

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Email: office@thesiacollege.com Website:thesiacollege.com

Dated:02/04/2018

To

The Principal
The S.I.A. College of Higher Education

Sub: Request for project Demonstration and trial run

Dear Mam

The Esanchalan admission software has been successfully developed. I request you to give me a date for project demonstration and starting of the trial run on 5th April 2018.

Thanking you

Regards

S. Sai Sree
Assistant Professor
Dept of IT & Mathematics

THE S.I.A. COLLEGE OF HIGHER EDUCATION
DOMBIVLI

The South Indian Association's
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P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Dated: 06/04/2017

To

Mrs. S. Sai Sree
Assistant Professor
Dept of It & Mathematics

Sub: Implement the Esanchalan Software

Mam

This is to inform you that you your trial run is successful and you can now go ahead and implement the Esanchalan Software in the college

Regards

Principal

The S.I.A. College of Higher Education

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

THE SOUTH INDIAN ASSOCIATION'S
THE S.I.A. COLLEGE OF HIGHER EDUCATION
(Affiliated to Mumbai University)
NAAC Accredited "B+" Grade

Project Name	E-Sanchalan Admission
Guide Name	Mrs. S. Sai Sree & Mr. Sunil Gaonkar & Mrs. Vandana Jadhav
Background	As the examination software got successfully implemented, a question arised on how to get the students first into the system. As a solution, it was decided to get the student's admission through a new software.
Objectives	To obtain entry level information of students like address, contact nos, email ids, HSC, SSC marks, information relating to their junior colleges etc so that students are accesible to teachers as well as administrative purposes
Scope of Work	Automation of entire admission process to avoid glitches and to make the work faster and efficient. To generate various MIS as well as Statutory Reports

Key Stake Holders

Client	The S.I.A. College of Higher Education
Project Manager	Mrs. S. Sai Sree & Mr. Sunil Gaonkar & Mrs. Vandana Jadhav

TimeFrame

Modules	Description of Work	Start Date	End Date	No. of Days

THE S.I.A. COLLEGE OF HIGHER EDUCATION * DOMBIVLI

SIA

SIA TechLink

(IT Development Division)

The S.I.A. College of Higher Education, Dombivli (E)

Admission	E-ticket is generated as students Pay for admission form by collecting information such as 10th, 12th marks, Aadhar card no. , Course of interest, Category Through the E-Ticket no generated the students fill the admission form and select their electives if any and also upload the required documents. On successful submission of the form, they can proceed for payment of fees.	03-05-2017	31-05-2017	28
MIS & Statutory Reports	Generation of E-Ticket Generation of Admission form Generate Roll Call Report	20-05-2017	10-06-2017	21
				0
				0
				0

TechLink

Development Division)

S.I.A. College of Higher Education, Dombivli (E)

Technology Used	SQL Server 2012, Netbeans 7.2
Hardware	Intel i5 processor, 4GB RAM Minimum

Project Members Details

Class	Name	Roll No.	Contact Nos.

Approval Signatures

K.V. Ranganekar

Client

Principal

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

Project Manager

THE S.I.A. COLLEGE OF HIGHER EDUCATION * DOMBIVLI

The South Indian Association's
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P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Date : 10th July 2017

To,

The Principal,

The S.I.A. College of Higher Education

Dombivli East 421201

Sub : Designing website for The S.I.A. College of Higher Education

Respected Madam,

We S.I.A. Techlink want to develop a website for The S.I.A. College of Higher Education as the current website didn't prove to be substantial enough as it is created in JOOMLA also it doesn't provide easy formatting options as it is static in nature.

The site which we want to develop will take care of user friendly environment, proper content management, database management and dynamic nature as well as latest technology.

To develop such website, we need 1 computer to be allocated in S.I.A. Techlink (Incubation Center) with P4 processor and 2 GB RAM with XAMPP software installed in it comprising PHP6 and MySQL.

We would like to appoint Mr. Krishnan Ramaswami (Rollno IF15035) as a web developer and Mrs. Sandhya Pandey and Mrs. Nandini Kadam as a project Guide for this project.

Awaiting for the positive Response.

Thanking you

S.I.A. Techlink (Incubation Center)

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

SIA

SIA TechLink

(IT Development Division)

The S.I.A. College of Higher Education, Dombivli (E)

THE SOUTH INDIAN ASSOCIATION'S
THE S.I.A. COLLEGE OF HIGHER EDUCATION
(Affiliated to Mumbai University)
NAAC Accredited "B+" Grade

Project Name	THE S.I.A.COLLEGE Website
Guide Name	Sandhya Pandey, Nandini Kadam
Background	Current website didn't prove to be substantial as it was created on JOOMLA and moreover doesn't provide easy formatting options .
Objectives	The website mainly focuses on the following points : • User Interface • Appropriate Content • Latest technology • Database Management • Dynamic Content Management • Maintainance of Earlier Records • Display of Current Notifications
Scope of Work	The website projects important information to its stakeholders such as notices, results, and the activities performed by various committees of the college.

Key Stake Holders

Client	The S.I.A College of Higher Education
Project Manager	Sandhya Pandey, Nandini Kadam

TimeFrame

Modules	Description of Work	Start Date	End Date	No. of Days
User Module	content management, maintainance of records, displaying current notifications, database management	12th August 2017	30th March 2018	100

Technology Used	MySql, PHP 6
Hardware	Processor P4, 2 GB RAM

Project Members Details

Class	Name	Roll No.	Contact Nos.
T.Y.I.T	KRISHNAN RAMASWAMI	IF15035	8879927991

Approval Signatures

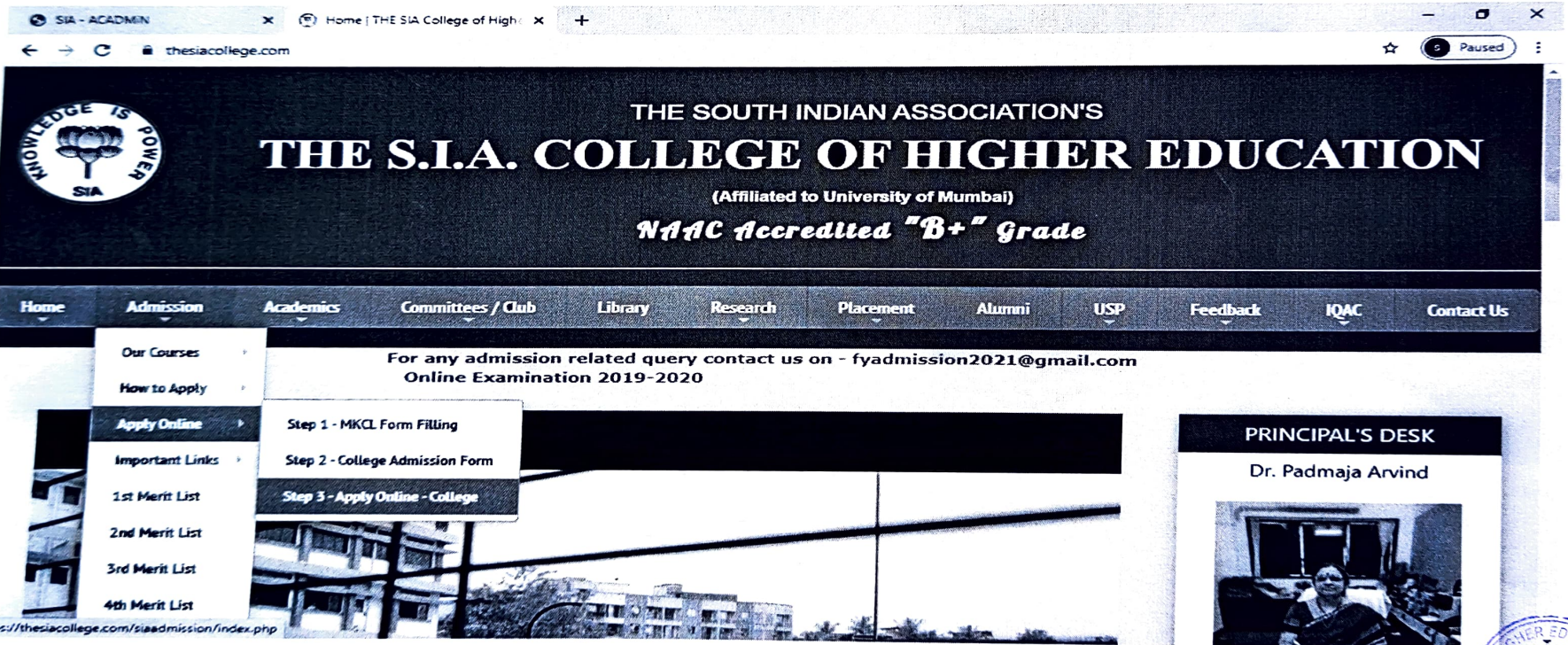
K.V. Ramaswamy
Client

Principal

Project Manager

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

The S.I.A. College of Higher Education
Website (www.thesiacollege.com)



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Email: office@thesiacollege.com Website:thesiacollege.com

Dated: 14/06/2018

To

The Principal
The S.I.A. College of Higher Education

Sub: Request for developing Attendance Software

Dear Mam

I, S. Sai Sree, working as an Assistant Professor in the Department of Information Technology and Mathematics propose to you about the idea for developing an attendance software where the teachers can enter day to day attendance and the reports like overall attendance report, subject wise attendance report and defaulters list.

Thanking you

Regards

S. Sai Sree
Assistant Professor
Dept of IT & Mathematics

THE S.I.A. COLLEGE OF HIGHER EDUCATION * DOMBIVLI

The South Indian Association's
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P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Dated: 15/06/2018

To

Mrs. S. Sai Sree
Assistant Professor
Dept of It & Mathematics

Sub: Acceptance of Project Proposal

Mam

With reference to your letter, I here by approve your request to develop attendance software for college use.

Regards

Principal

The S.I.A. College of Higher Education

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

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P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Dated:30/06/2018

To

The Principal
The S.I.A. College of Higher Education

Sub: Request for project Demonstration and trial run

Dear Mam

The attendance software has been successfully developed. I request you to give me a date for project demonstration and starting of the trial run on 2nd July 2018.

Thanking you

Regards

S. Sai Sree
Assistant Professor
Dept of IT & Mathematics

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

The South Indian Association's
The S.I.A. College of Higher Education
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P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Dated: 03/07/2018

To

Mrs. S. Sai Sree
Assistant Professor
Dept of It & Mathematics

Sub: Implement the attendance Software

Mam

This is to inform you that you your trial run is successful and you can now go ahead and implement attendance Software in the college

Regards

Principal

The S.I.A. College of Higher Education

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

THE S.I.A. COLLEGE OF HIGHER EDUCATION * DOMBIVLI

THE SOUTH INDIAN ASSOCIATION'S
THE S.I.A. COLLEGE OF HIGHER EDUCATION
(Affiliated to Mumbai University)
NAAC Accredited "B+" Grade

Guide Name	MRS. S. SAI SREE
Background	Teachers had to enter the attendance in excel sheet and they were finding it difficult to calculate the attendance percentage, defaulter's list and so on.
Objectives	To Generate Subjectwise attendance list To Generate Classwise attendance list To Generate Defaulter's list
Scope of Work	The teachers need to enter lecture wise attendance in the system. They should also enter what is the cut off percentage below which they will be considered as defaulters. Automatically the reports mentioned in the objectives will be generated for a specific period of time as given as input by the user.

Key Stake Holders

Client	The SIA College of Higher Education
Project Manager	MRS. S. SAI SREE

TimeFrame

Modules	Description of Work	Start Date	End Date	No. of Days
Attendance Entry	A form was created to get the attendance of the students of a particular course, and subject. The teacher should check the checkbox if the student is present. And then save the information. It needs to be coded correctly to verify no two teachers can enter attendance for the same date and time if the subjects they are entering are compulsory on the other hand if it is optional subjects, then it should be allowed to enter their attendance. This validation needs to be provided in the system. To view the reports, they have to select from date and to date and select whether they want to view subject wise report or overall classwise report for attendance percentage.	16/06/2018	07-10-2018	25 days

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

SIA TechLink
(IT Development Division)
The S.I.A. College of Higher Education, Dombivli (E)

Technology Used	MICROSOFT SQL SERVER 2012, .NET FRAMEWORK
Hardware	Intel i5 processor, 4GB RAM

Project Members Details

Class	Name	Roll No.	Contact Nos.
TYIT	MR. HARSHAD GUPTA	IF16014	9867933233

Approval Signatures

K.V. Ranganathan
Client

Principal
PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

Project Manager

The South Indian Association's
The S.I.A. College of Higher Education
Accredited B+ by NAAC
(Affiliated to University of Mumbai)
P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Date : 24th July 2018

To,

The Principal,

The S.I.A. College of Higher Education

Dombivli East 421201

Sub : Appointment of Project guide and Development Team

Respected Madam,

With reference to the letter regarding Website Development for The SIA College of Health Sciences College of Physiotherapy we are appointing the team for following members

Mrs. Sandhya Pandey	-	Project Guide
Mrs. Nandini Kadam	-	Project Guide
Ms. Pooja Omprakash Yadav	-	Developer
Ms. Sonalika Singh	-	Developer

We also require 1 computer with P4 Processor and 2GB RAM with XAMPP and dreamviewer software installed in it.

Thanking you

Teacher-In charge

S.I.A. Techlink (Incubation Center)

The South Indian Association's
The S.I.A. College of Higher Education
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P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Dated: 31/07/2018

To

The Principal
The S.I.A. College of Higher Education

Sub: Request for developing Feedback collection Software

Dear Mam

I, Mrs.Tejaswini Shivsharan, working as an Assistant Professor in the Department of Information Technology and Mathematics propose to you about the idea for developing feedback software where the students feedback can be recorded and subsequently analyzed.

Thanking you

Regards

Mrs. Tejaswini Shivsharan ,
Assistant Professor
Department of IT & Mathematics

The South Indian Association's
The S.I.A. College of Higher Education
Accredited B+ by NAAC
(Affiliated to University of Mumbai)
P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Dated: 1/08/2018

To

Mrs. Tejaswini Shivsharan
Assistant Professor
Dept of It & Mathematics

Sub: Acceptance of Project Proposal

Mam

With reference to your letter, I here by approve your request to develop feedback software for college use.

Regards

Principal

The S.I.A. College of Higher Education

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

The South Indian Association's
The S.I.A. College of Higher Education
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(Affiliated to University of Mumbai)
P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Dated:16/08/2018

To

The Principal
The S.I.A. College of Higher Education

Sub: Request for project Demonstration and trial run

Dear Mam

The feedback software has been successfully developed. I request you to give me a date for project demonstration and starting of the trial run on 18th August 2018.

Thanking you

Regards

Tejaswini Shivsharan
Assistant Professor
Dept of IT & Mathematics

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

The South Indian Association's
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P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Dated: 19/08/2018

To

Mrs. Tejaswini Shivsharan
Assistant Professor
Dept of It & Mathematics

Sub: Implement the feedback Software

Mam

This is to inform you that you your trial run is successful and you can now go ahead and implement feedback Software in the college

Regards

Principal PRINCIPAL
The S.I.A. College of Higher Educat...
The S.I.A. College of Higher Education
DOMBIVLI (E)

THE S.I.A. COLLEGE OF HIGHER EDUCATION * DOMBIVLI

The South Indian Association's
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P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Dated: 19/08/2018

To

Mrs. Tejaswini Shivsharan
Assistant Professor
Dept of It & Mathematics

Sub: Implement the feedback Software

Mam

This is to inform you that you your trial run is successful and you can now go ahead and implement feedback Software in the college

Regards

Principal

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

The S.I.A. College of Higher Education

THE SOUTH INDIAN ASSOCIATION'S
THE S.I.A. COLLEGE OF HIGHER EDUCATION
(Affiliated to Mumbai University)
NAAC Accredited "B+" Grade

Project Name	Feedback data collection system
Guide Name	Mrs.Tejaswini Shivsharan and Mr.Sunil Gaonkar
Background	The feedback is an important parameter in accreediatation system. Collecting feedback , analysing data and generationg reports is a complex process.there was a need of automated process for feedback system.
Objectives	The objectives are, To collect feedback rating points for teaching -learning evaluation. To store data for analysing purpose.
Scope of Work	Computerization of entire feedback process Generate the database for analysing purpose which can be verified with the number of students.

Key Stake Holders

Client	The S.I.A. College of Higher Education
Project Manager	Mrs.Tejaswini Shivsharan and Mr.Sunil Gaonkar

TimeFrame

Modules	Description of Work	Start Date	End Date	No. of Days
Phase-1	Created forms for entering into feedback system roll number wise and assign rating points for variour qustions in teaching- learning evaluation. Implemented for even semester in 2018-19 till March 2020.	03-12-2018	20/03/2018	8

Technology Used	SQL Server 2012, ASP.Net
Hardware	

Project Members Details			
Class	Name	Roll No.	Contact Nos.
T.Y.B.ScIT	Harshad Gupta	IF16014	

Approval Signatures

K.V. Ranganekar
Client

Padmaja
Principal

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

Project Manager

The S.I.A. College of Higher Education
Feedback collection system

THE S.I.A. COLLEGE OF HIGHER EDUCATION
DOMBIVLI

The South Indian Association's
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(Affiliated to University of Mumbai)
P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Date : 18th March 2019

To,

The Principal,

The S.I.A. College of Higher Education

Dombivli East 421201

Sub : Appointment of Project guide and Development Team

Respected Madam,

With reference to the letter regarding Software development for admission process of the college we are appointing the team for following members

Mrs. Nandini Kadam	-	Project Guide
Mrs. Sandhya Pandey	-	Project Guide
Ms. Geeta Adavi	-	Developer
Ms. Vaishali Dubba	-	Developer
Ms. Pooja Omprakash Yadav	-	Developer

We also require 1 computer with P4 Processor and 2GB RAM with XAMPP and dreamviewer software installed in it.

Thanking you

Project In-charge

S.I.A. Techlink (Incubation Center)

The South Indian Association's
The S.I.A. College of Higher Education
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(Affiliated to University of Mumbai)
P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Date : 28th May 2019

To,

The Principal,

The S.I.A. College of Higher Education

Dombivli East 421201

Respected Madam,

We are glad to inform you that we have successfully completed the "SIA ONLINE ADMISSION PROJECT" with Team member/s Ms. Geeta Adavi, Ms. Vaishali Dubba and Ms. Pooja Omprakash Yadav Project Guide/s Mrs. Nandini Kadam and Mrs. Sandhya Pandey.

The software developed is tested and errors have been rectified.

The links to access this software are provided in our college website

Hereby providing you the project Details

Thanking you

Project In-charge

S.I.A. Techlink (Incubation Center)

THE SOUTH INDIAN ASSOCIATION'S
THE S.I.A. COLLEGE OF HIGHER EDUCATION
(Affiliated to Mumbai University)
NAAC Accredited "B+" Grade

Project Name	S.I.A. ONLINE ADMISSION
Guide Name	Nandini Kadam, Sandhya Pandey
Background	The college was operating admission process through offline mode and the data entry was done by administration people
Objectives	The project mainly focuses on the following points : •To make the college Admission form available online through college website ie. https://www.thesiacollege.com to all the candidates who want to seek the admission Generating userid and password for the candidates collection of candidates personal, academic and document details in online mode Avoiding the administration staff from doing the data entry from offline admission forms
Scope of Work	This project helps the admission seeking students to Register themselves and then fill and submit the admission form from anywhere and at anytime. It also reduces the work of data entry for administration staff

Key Stake Holders

Client	The S.I.A College of Higher Education
Project Manager	Nandini Kadam, Sandhya Pandey

TimeFrame

Modules	Description of Work	Start Date	End Date	No. of Days
User Module	Allowing to fill Personal Details, Academic Details, Document Details ti the candidates	22nd March 2019	18th May 2019	60 Days
Admin Module	Generating user id and password for the candidates, downloading the data in excel format	19th May 2019	28th May 2019	11 Days

Technology Used	MySql, PHP 6		
Hardware	Processor P4, 2 GB RAM		
Project Members Details			
Class	Name	Roll No.	Contact Nos.
SYIT	GEETA ADAVI	IF17001	8879124939
SYIT	VAISHALI DUBBA	IF17013	8425950078
SYIT	POOJA YADAV	IF17087	9867551961

Approval Signatures

Client

Principal

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

Project Manager

THE SOUTH INDIAN ASSOCIATION'S
THE S.I.A. COLLEGE OF HIGHER EDUCATION
(Affiliated to Mumbai University)
NAAC Accredited "B+" Grade

Project Name	S.I.A. ONLINE ADMISSION - PHASE II
Guide Name	Nandini Kadam, Sandhya Pandey
Background	The admission process of the college is automated whereas the existing software provides online facility of registration and form filling and reduced data entry work of administration staff. However for purchasing prospectus and paying academic fees the candidates has to compulsorily visit the college premises In the scenario of COVID-19 Pandemic Situation crowd gathering in college premises is not permissible
Objectives	Online Prospectus purchasing Sending the UserID and Password (Credentials) and prospectus through email Online display of merit list Online payment of Academic Fees dashboard creation for admin having features : Displaying the no of admited students streamwise Allowing the admin to approve or unapprove the academic fess transactions Sending Online Receipt through email
Scope of Work	The admission process is fully automated from getting the prospectus to paying the academic fees control and maintainance of all academic fees related transactions

Key Stake Holders

Client	The S.I.A College of Higher Education
Project Manager	Nandini Kadam, Sandhya Pandey

TimeFrame

Modules	Description of Work	Start Date	End Date	No. of Days
User Module	Online payment for prospectus Online Credential Generation Providing academic fees payment details (made through gpay, phonepay, net banking etc.)online	30th June 2020	27th July 2020	28 Days
Admin Module	Dashboard Creation Transaction approval / unapproval/ rejection	28th July 2020	7th August 2020	11 Days

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

Technology Used	MySql, PHP 6
Hardware	Processor P4, 2 GB RAM

Project Members Details

Class	Name	Roll No.	Contact Nos.
EX-STUDENT	GEETA ADAVI	IF17001	8879124939
EX-STUDENT	VAISHALI DUBBA	IF17013	8425950078
EX-STUDENT	POOJA YADAV	IF17087	9867551961
EX-STUDENT	SONALIKA SINGH	IF17060	9167628033
SYIT	CHINTAN RATHOD	IF19050	8450931796
TYIT	OMKAR SHINDE	IF18139	9029338161

Approval Signatures

K.V. Ranganathan
Client

Principal
PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

Project Manager

Fees Payment Module

103.199.131.94:90/Fin_|

The S.I.A College of Higher Education, Dombivli (East)

e - Sanchalan

- Home
- Admission Form
- Academic Fee
- Misc Fee
- Documents Upload
- Student Info

Welcome... RAHUL DANGAR Roll No.: MF18015 GR No.: 3507 Logout

Payment Gateway

Name of Bank: CITY UNION BANK Name Of Beneficiary: THE SIA COLLEGE OF HIGHER EDUCATION IFSC CODE: CIUB0000223 A/C [illegible] Type: SAVING Branch: DOMBIVLI WEST GUPTE ROAD

Ref. ID: 202009041
Course Name: TYBMS TYBMS
Student Name: RAHUL KANJI DANGAR
Roll Number: MF18015
Academic Year: 2020
Fee Code: TYBMS
Total Amout: 18551

Receipt Number	Date of Payment	Amount Received
202011973	2020-09-14	18551.00

Amount Received: 18551
Balance Amount: 0
Payment Date:
Amount:
Payment Mode: NEFT
Transaction ID:
Upload Screenshot of Receipt:
Choose file No file chosen

e-Sanchalan Software Design and Created by SIATechLink

The South Indian Association's
The S.I.A. College of Higher Education
Accredited B+ by NAAC
(Affiliated to University of Mumbai)
P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Dated: 1/10/2019

To

The Principal

The S.I.A. College of Higher Education

Sub: Request for developing E-sanchalan pre exam Software

Dear Mam,

I, Mr.Sunil Gaonkar, working in The S.I.A College of Higher Education propose to you about the idea for developing software E-sanchalan pre exam Software

- To generate time table and seat numbers for examination
- To issue hall tickets
- To make block arrangements
- To allocate super visor duties uniformly to all faculty members
- To calculate the remuneration for supervision
- To maintain the data of paper setters and to calculate remuneration
- To generate reports required by the cluster.

Thanking you

Regards

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

Mr.Sunil Gaonkar

The South Indian Association's
The S.I.A. College of Higher Education
Accredited B+ by NAAC
(Affiliated to University of Mumbai)
P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Dated: 2/10/2019

To

Mr.Sunil Gaonkar,

The S.I.A College of Higher Education,

Dombivili

Sub: Acceptance of Project Proposal

Sir,

With reference to your letter, I here by approve your request to develop E-sanchalan pre exam Software for college use.

Regards

Principal

The S.I.A. College of Higher Education

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

The South Indian Association's
The S.I.A. College of Higher Education
Accredited B+ by NAAC
(Affiliated to University of Mumbai)
P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Dated:31/10/2019

To

The Principal,

The S.I.A. College of Higher Education

Sub: Request for project Demonstration and trial run

Dear Mam

The E-sanchalan pre exam Software has been successfully developed. I request you to give me a date for project demonstration and starting of the trial run on 1/11/2019

Thanking you

Regards

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

Mr. Sunil Gaonkar

The South Indian Association's
The S.I.A. College of Higher Education
Accredited B+ by NAAC
(Affiliated to University of Mumbai)
P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Dated: 2/11/2019

To

Mr. Sunil Gaonkar,

The S.I.A. College of Higher Education

Sub: Implement the E-sanchalan pre exam Software

Sir,

This is to inform you that you your trial run is successful and you can now go ahead and implement E-sanchalan pre exam Software in the college

Regards

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

Principal

The S.I.A. College of Higher Education

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

THE SOUTH INDIAN ASSOCIATION'S
THE S.I.A. COLLEGE OF HIGHER EDUCATION
(Affiliated to Mumbai University)
NAAC Accredited "B+" Grade

Project Name	E-Sanchalan Pre Exam Automation
Guide Name	Mr. Sunil Gaonkar
Background	There was a glitch in the block arrangements and allocation of supervisors for the smooth conduction of examination. Since the maintaining the data of paper setters and supervisors was very difficult manually, this entire process is automized.
Objectives	To generate time table and seat nos for examination To issue hall tickets To make block arrangements To allocate super visor duties uniformly to all faculty members To calculate the renumeration for supervision To maintain the data of paper setters and to calculate renumeration To generate reports required by the cluster.
Scope of Work	To computerize all the activites to be performed before and after conduction of examination.

Key Stake Holders

Client	The S.I.A. College of Higher Education
Project Manager	Mr. Sunil Gaonkar

TimeFrame

Modules	Description of Work	Start Date	End Date	No. of Days
Pre-Exam Activities	Time table for the open exams are inserted. Paper setter information are updated Students for the open exams are imported. Seat nos are generated. Day wise block arragement is done Block wise supervisors are allocated	03-10-2019	31-10-2019	28
Pre-Exam Reports	Time table report Hall ticket report Block arragement report(Summary & Detail) Super visor report	21-11-2019	15-12-2019	24

Post Exam Activities	Students attendance for examination is inserted Subject wise blank marksheet is generated. Exam Renumeration process is executed . After approval by the faculties in their respective login, the request is sent for payment.	16-12-2019	10-01-2020	25
Post Exam Reports	Faculty Renumeration (detail & Summary) Examination Committee Renumeration Report	12-01-2020	15-02-2020	34
				0
				0
				0
	Total days			111

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

Technology Used	SQL Server 2012, Netbeans 7.2
Hardware	

Project Members Details

Class	Name	Roll No.	Contact Nos.

Approval Signatures

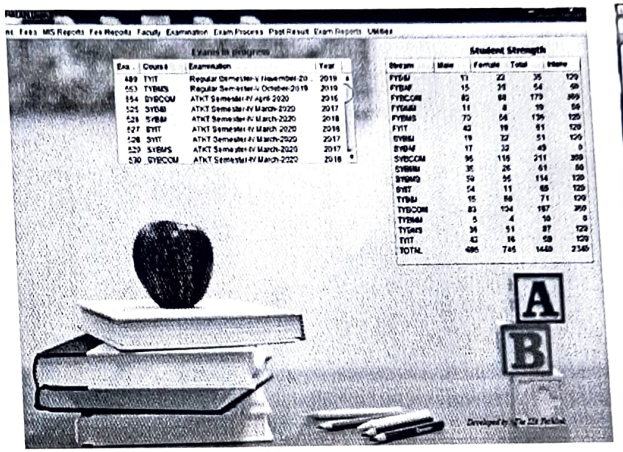
K.V. Ramanathan
Client

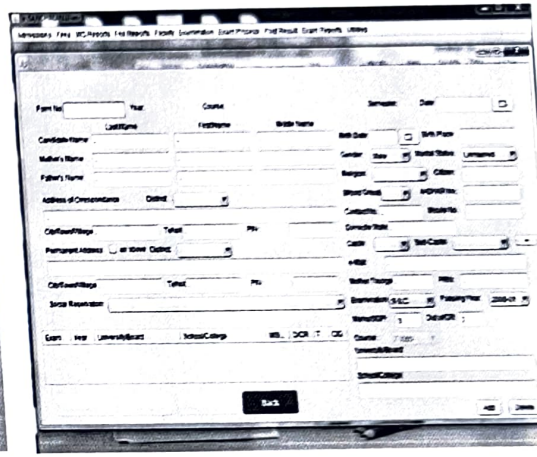
Principal
PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

Project Manager

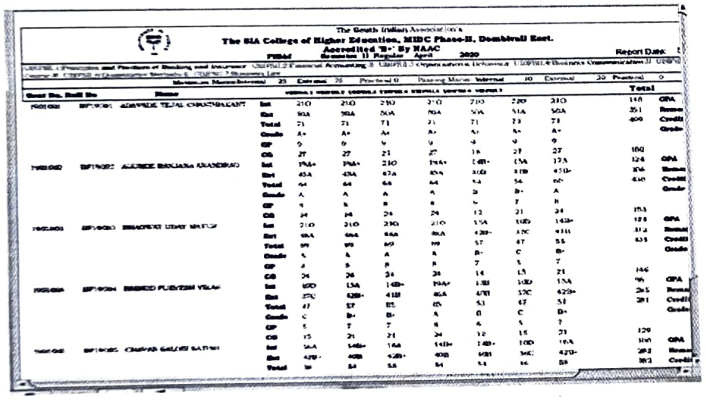
THE S.I.A. COLLEGE OF HIGHER EDUCATION * DOMBIVLI

E-Sanchalan Software Examination Module Admission Data Form

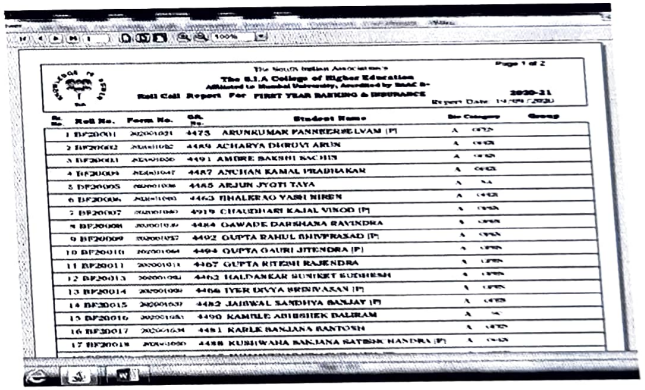




Exam Results Flow sheet



Roll Call Sheet



The South Indian Association's
The S.I.A. College of Higher Education
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(Affiliated to University of Mumbai)
P-88 MIDC Residential Area, Dombivli Gymkhana Road, Near Balaji Mandir, Dombivli(E)
Email: office@thesiacollege.com Website:thesiacollege.com

Respected Madam,

Under the incubation center SIA TechLink of our college, as per the discussion with the Librarian Bharathi Rao Madam, there is a requirement for making the Library Digital.

After carefully evaluating the requirements, we would like to propose online project SIA-Granthalaya.

The project will focus on developing the following:

a) To build a system that can receive input and generate automatically output in easy way and short time.

b) To build a monitoring system that is able to monitor and manage all library operations efficiently.

c) Give an opportunity to librarians to reduce mistakes that always happen during manual method.

d) To store properly the library items in order to maintain their security.

e) To enter and preserve details of the various issues and keep a track on their returns.

Hardware requirements:

Processor:Intel® Core™ i5-6400CPU, RAM:8GB, System type: 64bit OS

Technology used :

Front End: JSP and Servlet,AJAX and JDK 8.0 Back End: MYSQL

Web Page Design: HTML, JavaScript,CSS

Web Server: Apache Tomcat Web Server

List of the students who will be working on this project:

SY BSc IT :

1. Bhavesh Narang :IF16034
2. Darshan Naik:IF16032

Looking forward with anticipation for your kind approval.

Thanking you

S.I.A. Techlink (Incubation Center)
(Sandhya Thalelar)

SIA
SIA TechLink
(IT Development Division)
The S.I.A. College of Higher Education, Dombivli (E)

Project Name	**SIA-Granthalaya - Phase 1 (Integrated Library Management System)**
Project Guidance	K.V.Ranganathan, Vignesh Iyer
Project Manager	Sandhya Kapil Thakkar
Background	The web application manages and stores books information electronically according to students need. The system helps both students and library manager to keep a constant track of all the books available in the library
Objectives	a)To build a system that can receive input and generate automatically output in easy way and short time. b) To build a monitoring system that is able to monitor and manage all library operations efficiently. c) Give an opportunity to librarians to reduce mistakes that always happen during manual method. d) To store properly the library items in order to maintain their security. e) To enter and preserve details of the various issues and keep a track on their returns.
Scope of Work	1. Create distinct product users based on their roles and permissions. 2. Authenticate users at their login. 3. Provide the list of books the users can borrow. 4. Facility to reserve books that are available. 5. A status page for all users to view books reserved by them. 6. Facility to cancel the reservation for a book made earlier. 7. A status page for all users to view books borrowed by them, their individual due dates and their individual penalties if any. 8. An interface to view and edit the own profile. 9. Provide method for adjusting account settings such as passwords. 10. Mechanism to reset the password in case user forgets it. 11. Providing interface for teaching and non-teaching staffs.

Key Stake Holders

Client	Mrs.Bharathi Rao, Head Librarian, The S.I.A.College of Higher Education,Dombivli(East)
Project Manager	K.V.Ranganathan, Vignesh Iyer

TimeFrame

Modules	Description of Work	Start Date	End Date	No. of Days
Module 1	Login facilities to Administrator and Librarian	06-10-2017	30-10-2017	24 days
Module 2	Bar Code Generaton, classwise barcodes and individual barcodes	30-10-2017	24-11-2017	25 days
Module 3	Issue and Return Books ,Update Book Details(Add,update,delete)	24-11-2017	14-12-2017	21 days
Module 4	Fine calculation, DashBoard for Reporting(daily, monthly, yearly)	14-12-2017	26-12-2017	12 days
Module 5	Return Delays of Books, History of Books issued by students , classwise reports, coursewise report	26-12-2017	02-01-2018	07 days

Technology Used	**Front End:** JSP and Servlet,AJAX and JDK 8.0 **Back End:** MYSQL **Web Page Design**: HTML, JavaScript,CSS **Web Server:** Apache Tomcat Web Server
Hardware	**Processor**:Intel® Core™ i5-6400CPU, **RAM**:8GB, **System type**: 64bit OS

Project Members Details

Class	Name	Roll No.	Contact Nos.
SYIT	Abhishek Mankar	IF16026	9769496342
SYIT	Bhavesh Narang	IF16034	8655799059
SYIT	Darshan Naik	IF16032	9167452958
SYIT	Samar Singh	IF16056	8291237785
SYIT	Utkarsh Kamble	IF16020	8419903908

Approval Signatures

Client

Principal

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

Project Manager

THE SOUTH INDIAN ASSOCIATION'S
THE S.I.A. COLLEGE OF HIGHER EDUCATION
(Affiliated to Mumbai University)
NAAC Accredited "B+" Grade

Project Name	**SIA-Granthalaya - Phase II**
Guide Name	K.V Ranganathan, Vignesh Iyer, Sandhya Thakkar
Background	The web application manages and stores books information electronically according to students need. The system helps both students and library manager to keep a constant track of all the books available in the library
Objectives	a)To build a system that can receive input and generate automatically output in easy way and short time. b) To build a monitoring system that is able to monitor and manage all library operations efficiently. c) Give an opportunity to librarians to reduce mistakes that always happen during manual method. d) To store properly the library items in order to maintain their security. e) To enter and preserve details of the various issues and keep a track on their returns.
Scope of Work	1. Create distinct product users based on their roles and permissions. 2. Authenticate users at their login. 3. Provide the list of books the users can borrow. 4. Facility to reserve books that are available. 5. A status page for all users to view books reserved by them. 6. Facility to cancel the reservation for a book made earlier. 7. A status page for all users to view books borrowed by them, their individual due dates and their individual penalties if any. 8. An interface to view and edit the own profile. 9. Provide method for adjusting account settings such as passwords. 10. Mechanism to reset the password in case user forgets it. 11. Providing interface for teaching and non-teaching staffs.

Key Stake Holders

Client	Mrs.Bharathi Rao, Head Librarian, The S.I.A.College of Higher Education,Dombivli(East)
Project Manager	Sandhya Kapil Thakkar

TimeFrame

Modules	Description of Work	Start Date	End Date	No. of Days
Module 1	**Student Promotion :** Promotion of students (Should be connected to e-sanchalan Server)	18th June 2019	10th July 2019	22

Module 2	**e-Resource Uploading :** Option for Uploading and accessing e-Resources like Option for uploading and to accessing the Question papers, E books and E journals in software	12th July 2019	2nd August 2019	21
Module 3	**Update /Edit** Options of important pages			
Module 4	**Report Genration in Excel :** Request details should be exported to excel	25th November 2019	4th January 2020	40
Module 5	**Option for Overdue Books in Menu :** Option to send messages for overdue books through email			
Module 6	**From and To Options :** From and To Option should be added wherever it is necessary (For eg July 2019 to June 2020, while calculating total expenditure on books			
Module 7	**Linking the Photos of the User on User Profile**	2nd June 2020	30th June 2020	28
Module 8	**New Arrival Entry :** Magazine and Journals Entry (order, receiving entry, renewal notice etc)	4th October 2020	26th December 2020	83
Module 9	**OPAC -Books Catalogue :** (Reference Books : Subject wise)	4th January 2021	10th June 2021	
			Total Days	**194**

THE S.I.A. COLLEGE OF HIGHER EDUCATION DOMBIVLI

Technology Used	**Front End:** JSP and Servlet,AJAX and JDK 8.0 **Back End:** MYSQL **Web Page Design**: HTML, JavaScript,CSS **Web Server:** Apache Tomcat Web Server
Hardware	**Processor**:Intel® Core™ i5-6400CPU, **RAM**:8GB, **System type**: 64bit OS

Project Members Details

Class	Name	Roll No.	Contact Nos.
Alumni	Darshan Naik (Swami Vivekanand College)	-	9167452958
TYIT	Sameer Bidi	IS19088	7715916831
TYIT	Manas Samant	IF18024	8291040940
TYIT	Sarvesh Gandhare	IF19012	8369552205
Alumni	Utkarsh Kamble (working as Softwae Developer)	-	9769496342
Alumni	Abhishek Mankar (working as Softwae Developer)	-	8419903908

Approval Signatures

Client

Principal

PRINCIPAL
The S.I.A. College of Higher Education
DOMBIVLI (E)

Project Manager

Library management System

THE S.I.A. COLLEGE OF HIGHER EDUCATION