Automate the Process of Logistics in Cement Transportation - Web Application Development

Version	Issued By	Issue Date	Comments / Changes
1.0	Sushovan Banerjee	11.07.2018	

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Cover Letter

Dear Mr. Rohit Singh,

Thank you for providing us an opportunity to participate on such an exciting project. We are sure to exceed your expectation and complete the project as per the specification provided by you.

As previously mentioned, Matrix Media is a full-service web and mobile agency with over 150 programmers and designers on-board. We specialize in diverse solutions including web 2.0 design and development, enterprise web applications, PHP and .NET development, ecommerce solutions, CMS websites, Flex/Flash based RIAs, iPhone/iPad apps, BlackBerry apps, SEO and social media marketing.

In this proposal, we have included our understanding, scope of the project, assumptions, project timelines, quote, technology details and other information which will help you understand our offering better.

We look forward to working with you.

Kind Regards,

Sushovan Banerjee
Business Development Manager
Matrix Media Solutions Pvt. Ltd.
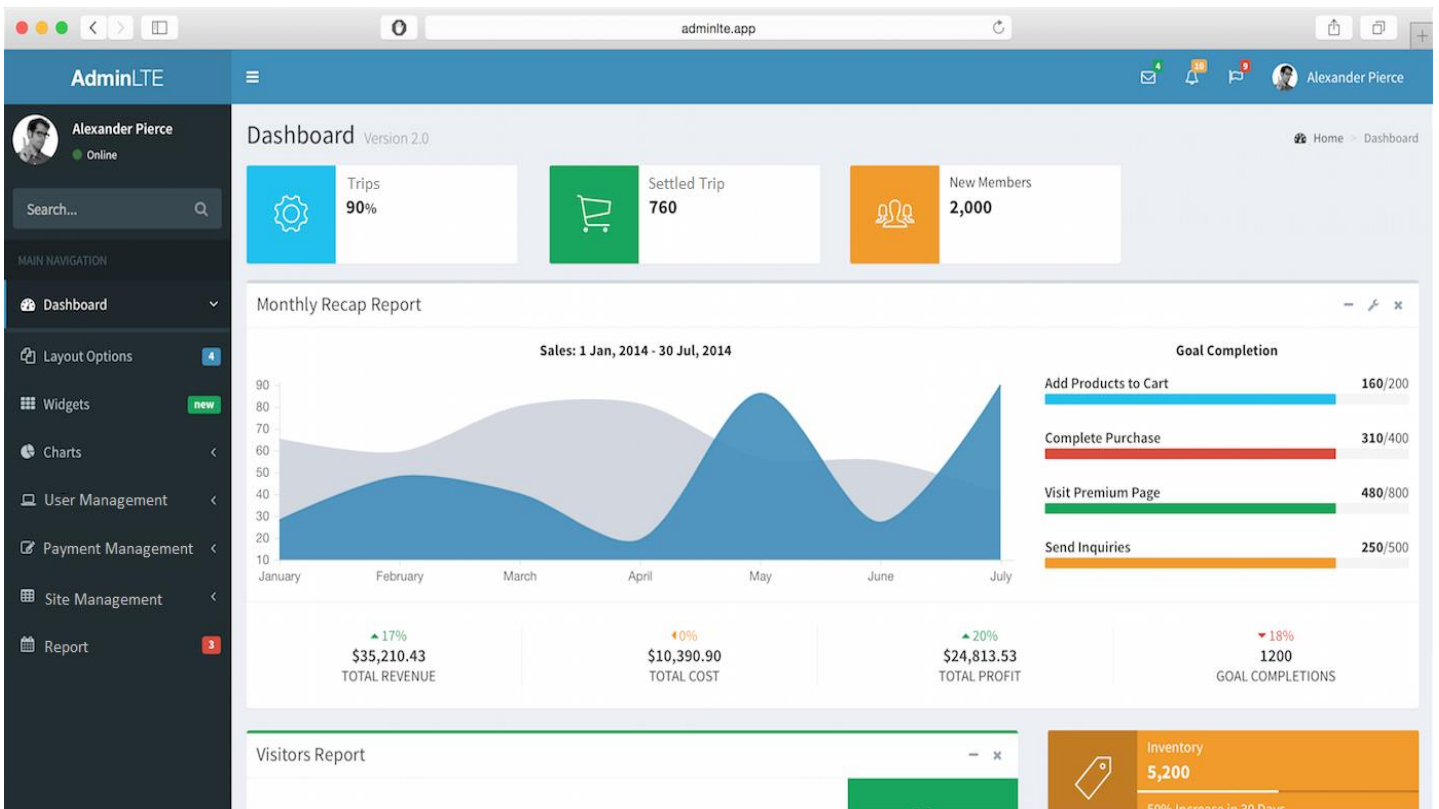
www.matrixnmedia.com

Project Overview:

1. SS Logistics is a Cement Logistics company which operates transits between the plant to wire house and wire house to destination or may be from plant to direct destination. To track the real time movement and to automate the process of challan, DO, POD entry, we are supposed to design a user friendly application which will be in line to the business logic. The idea is to prevent Data Leakage, Data Redundancy and to improve the workflow.
2. Application will support only English language.
3. Design will be done based on LTE template i.e ready-made template of admin panel only. But there will be no customized design.
4. We are not assuming any generic website for guest user.
5. Logo and branding will be provided by client.

Application will have 3 fixed type of user web dashboards namely: Super admin, Supervisor and Accountant. There will be no front-end registration process. Admin will add all users.

Admin Module:

Admin would have the option for managing the entire console, he/she can create the user like Supervisor and Accountant with the specific set of feature.

The above image is only a snapshot of how the Admin could look like, there might not be such graph would be applicable for this project.

Main Activities of Admin is mentioned within this Chart.

User Type	Main Activity	Sub Activity	Note
Admin			
	User Role Creation		
		Create Supervisor	
		Create Accountant	
	Report		
		TBD	We haven't discussed the Report section, hence we are considering the Basic reports
	Common Admin Functionality		
	Map View		
		GPS Feeds getting from GPS device	Client would provide us the GPS Api from 3rd party
	Manage Truck Info	View/Add/ Edit/ Delete	

	Manage Plant Info	View/Add/ Edit/ Delete	
	Manage Destination Info	View/Add/ Edit/ Delete	
	Manage Category and Item	View/Add/ Edit/ Delete	
	Manage Petrol Pump Details	View/Add/ Edit/ Delete	
	Manage Trip	View/Add/ Edit/ Delete	

Supervisor Module:

Admin would create the Supervisor. Following are the activities which Supervisor would perform.

Company Truck Entry:

Registration Certificate Entry:

Insurance Policy

Registration Certificate	**Insurance Policy**	Permit	Tax	Polution

Policy No. [_____]

Name [_____]

Date [_____]

File Upload [_____]

‹	October	›
Su Mo Tu We Th Fr Sa
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31 1 2 3 4

Submit

Permit Entry:

Registration Certificate	Insurance Policy	**Permit**	Tax	Polution

Permit No. [_____]

Name [_____]

Date [_____]

File Upload [_____]

‹	October	›
Su Mo Tu We Th Fr Sa
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31 1 2 3 4

Submit

Tax Entry:

Registration Certificate	Insurance Policy	Permit	**Tax**	Polution

Invoice No. [   ]

Name [   ]

Date [   ] October

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1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31 1 2 3 4

File Upload [   ]

Submit

Pollution Entry:

Registration Certificate	Insurance Policy	Permit	Tax	**Polution**

Polution No. [   ]

Name [   ]

Date [   ] October

Su Mo Tu We Th Fr Sa
1 2 3 4 5 6 7
8 9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31 1 2 3 4

File Upload [   ]

Submit

Market Truck Info

Owner's Info

Owner's Info	Truck Info

Name	
Contact No.	
Pan Card	
Bank Details	

Submit

Truck Info

Owner's Info	Truck Info

Registration No.	
Name	
Date	
File Upload	

October

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

Submit

A Snapshot of Activities and Sub Activities of Supervisor as follows:

User Type	Main Activity	Sub Activity	Sub Sections	Fields	Note	Print
Supervisor						
	Truck Info					
		Company Truck Info Form				
			Registration Certificate		Expiration date chk as on date and alert	
				Registration No.		
				Name		
				Date		
				File Upload		
			Insurance Policy		Expiration date chk as on date and alert	
				Policy No.		
				Name		
				Date		

				File Upload		
			Permit		Expiration date chk as on date and alert	
				Permit No.		
				Name		
				Date		
				File Upload		
			Tax		Expiration date chk as on date and alert	
				Invoice No.		
				Name		
				Date		
				File Upload		
			Pollution		Expiration date chk as on date and alert	
				Pollution No.		
				Name		

				Date		
				File Upload		
		Market Truck Info Form				
			Owner's Info			
				Name		
				Contact Info		
				PAN Card		
				Bank Details		
			Truck Info			
			Registration Certificate		Expiration date chk as on date and alert	
				Registration No.		
				Name		
				Date		
				File Upload		
	Plant Info/ Wire House Info					

		Import/ export option Excel Sheet				
		Option of Manually Adding Plant Info				
				Plant / Branch Name		
				Location (Source)		
				Contact No.		
				Balance Given		
	Destination Entry					
		Import/ export option Excel Sheet				
		Option of Manually Adding Destination Info				
				Location (Destination)		
				Contact No.		
	Category Entry			Category name	e.g. cement	

	Item Entry			Item name	e.g. Emami, PSC, PPC etc..	
				Category Id		
	Petrol Pump Entry					
				Pump Name		
				Pump Address		
	Trip Entry					
		LR Form				
			Date		Editable	Print LR: Date
			LR No.		Editable	LR No. Plant Name
			Plant Name		Editable, Dropdown	Source Location
			Source Location		Editable, auto populate based on plant name	Invoice / Challan No. DO/ Shipment no. Destination Location Party Name
			Invoice / Challan No.		Editable	Truck No. (Reg No.) Qty in MT(Metric
			DO/ Shipment no.		Editable	Ton)

			Destination Location		Editable, dropdown, based on Party Name	
			Party Name		Editable, dropdown	
			Truck No. (Reg No.)		Editable, selection with autosuggestion	
			Qty in MT(Metric Ton)		Editable	
			Truck Owner		Editable	
			Item name		Editable, dropdown	
			DSL (Diesel)		locked once submitted, Non editable, would ask Accountant's approval to modify	Print Pump receipt: Date, Truck No, Loaded from, Petrol Pump Name, amount

					locked once submitted, Non editable, would ask Accountant's approval to modify	Print Debit Voucher: Date, LR No., Truck Owner, Truck No., Source, Destination, Party, Quantity
			Adv (Advance)			
			Description		Text field	
	POD Uploading	Driver would handover the POD to supervisor and he would upload it against the specific Trip				

Accountant

This is the user type created by the Admin with specific role.

Approval Management:

1. Accountant will approve the edit request in Advance amount.
2. Accountant will approve the edit request in Diesel amount.

Payment Management

Following are the parameter of determining the balance amount needs to be paid to the vendor
- Fright Rate, Toll, Unloading, Tare, Advance and Diesel

For example if we are considering the Mr. X, who is the Market Truck owner, and who has completed T1, T2...T4 (Trip), so in this chart where how the Balance would be calculated is shown.

Trip wise Fright Rate, Toll, Unloading and Tare amount will vary, so these fields are text field which Accountant will enter, but advance and Diesel would be auto populated based on the Trip which has been entered earlier by supervisor.

Trip	POD	QTY (MT)	Freight Charge	Toll	Unloading	Tare	Advance	Diesel	Balance	Status
T1	✓	10	500	75	100	50	5000	1000	QTY x Freight+Toll+Unloading x QTY+ Tare - Advance - Diesel	Settled
T2	✓	10	Freight	Toll	Unloading	Tare				Settled
T3	✗	10	Freight	Toll	Unloading	Tare				Unsettled
T4	✓	10	Freight	Toll	Unloading	Tare				Unsettled

Trip Settled:

Trip would be considered as settled for those trips within the chart which would have the POD uploaded.

Trip Unsettled:

Trip would be considered as unsettled for those trips which won't have the POD in the system, there might be another case there, may be trip no. 3 has got the POD missing, but T4 is having the POD, but from T3 which trip would be entered would be considered as Trip unsettled.

A Snapshot of Activities and Sub Activities of Accountant as follows:

User Type	Main Activity	Sub Activity	Sub Sections	Note
Accountant				
	Dashboard			
		Approval request		
			Edit Adv approval	
			Edit DSL Approval	
	Payment Module			
		Consolidated View		
			Qty in MT (Metric Ton)	
			Fright Rate	
			Toll	
			Unloading	
			Tare	
			Adv	

			DSL	
			Balance	Balance = (Qty x Fright Rate) + Toll + (unloading x Qty)+ Tare - Adv - DSL

Assumptions:

1.   Estimation may varies based on finalize form fields which are suppose to be received at a later date.

2.   Report section is still under TBD so it is not part of this estimate as well. Once we get report details we can suggest the effort for the same.

3.   Estimation not include estimation for integration of GPS API as it is expected to be some other API rather than Google API.

4.   Estimation does not account for any 3rd party integration except map API and currently time for map API not included as well.

5.   Estimation does not account for any Payment or SMS gateway integration. Payment will be done from other portal. In our portal we will upload the proof of payment.

6.   Estimation assumes (Admin LTE) a standard design template as per our provision. If any custom design needs to be implemented, the client needs to provide that before the start of work.

Estimation and Milestone Break Up:

Phase	Deliverable	Cost in INR
Project Commencement	------------	60000
1st Milestone	Admin Dashboard, Account creation of Supervisor and Accountant	100000
2nd Milestone	Supervisor Module	200000
3rd Milestone	Accountant Module	70000
UAT and Launch	Final Delivery	50000
Total		480000

GST would be added with the cost provided above.

Project Time Estimation

A basic time analysis has been deduced after going through the provided scope. The time estimation mentioned below has been dealt module-wise to understand the depth and complexity of the development process.

We estimate that development of the project will take approx 3 – 3.5 months. Time taken for preparation of wire frames will be extra.

Please note that successful and timely completion of the project within the specified time frame also depends on the following:

- Time-bound submission of deliverables from your end connected with the development process.

- Meetings for discussion and approval of the work in progress from time to time as and when required.

- Any delay in approvals, artefacts and project requirements etc. would affect the project execution and result in putting the project on hold after three reminders. Once a project goes on hold the production team will reschedule and re-estimate the project plan.

Development Platform

In order to deploy a robust and scalable application, decisions have been taken to implement the total solution using the following development platform as detailed below.

Development Environment-Software

- o Laravel
- o AJAX 2.0
- o Jquery
- o Linux Server Platform

Database Requirements

- o MySQL Server

SSL Certification:

If client is interested we can include the SSL certificate at the time of hosting the project in their server, the cost of the SSL certificate would be incurred by the client.

Browser Versions for Backend Web:

Desktop Platform Browser			
BROWSER Versions	**OS List**		
	Windows 8	**Windows 10**	**MAC**
Internet Explorer (v11 & above)	ü	ü	
Safari (v9 & above)			ü

Mozilla Firefox (v50 & above)	ü	ü	ü
Google Chrome (v52 & above)	ü	ü	ü

Maintenance Contract (Optional):

We would provide **2 months of free post launch support** in real time bug fixing (no additional feature would be developed).

After that the service would be chargeable, the contract would have a SLA in place. During that period we only can entertain the product entry and bug fixing and maintenance of the Website.

Cost: 20% of the Contract Value

Payment Terms: Annually

We will produce separate **SLA** for this task.
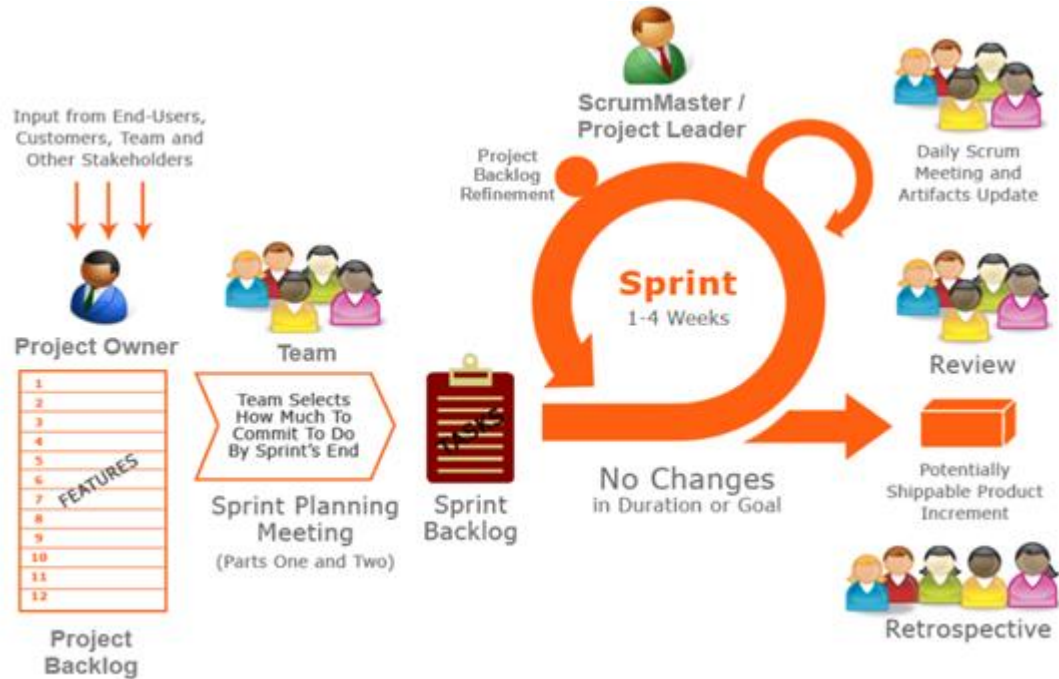
Brief of Maintenance:

- Fixing the existing glitches of the Website

- We can change the Banner Images and contents (content writing charges would be additional)

- Fixing the design and layout (no new design would be presented)

- Fixing the existing features which is probably not working.

- Website Optimization would be a part of the SEO scope which has been submitted separately, so minor optimization task can be taken into consideration but whole website offpage SEO task is not included within this budget.

- Mobile Compatibility would be checked and fixed.

- If any new functionality would need to be incorporated, we would consider this as separate scope of work.

- We can suggest advanced features during this engagement model.

- We would work like your Tech Partner and support you in all sort of assistance with the existing scope of work.
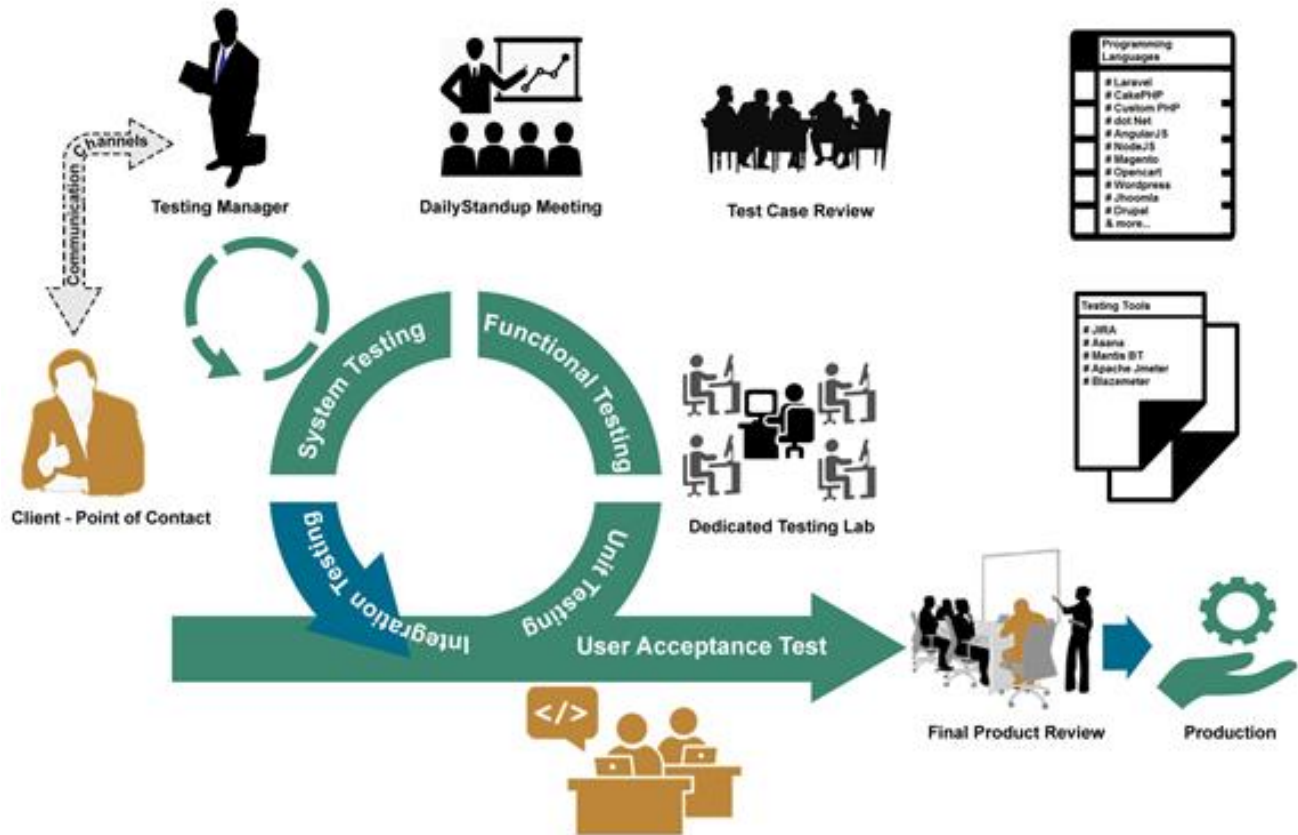
Project Assumptions & Disclaimers

·   Matrix Media will appoint a Project Leader / Team Lead on the project as single point of contact for communication over Email, Phone, Yahoo, MSN and Skype

·   Matrix Media assumes that they will not only get subject matter expertise from client but also a contact empowered to make real-time decisions shall be assigned to the project

·   Once this document is approved it supersedes any other documents provided by client before or after approval of this document accepts where mutually agreed and stated.

·   Performance of the application depends on the hardware selected, internet bandwidth allocated, network connectivity, size of data and concurrent users.

·   Matrix Media will send updates on daily / weekly / fortnightly basis for the project progress depending on the size of the project.

·   Client understands any limitations in 3rd party application will be deemed not in scope of this document Whilst every effort would be made to ensure accurate functioning of 3rd party modules, extensions, code base or integrations as possible; their accuracy can only be as good as the information provided by the suppliers / developers of the module, extension, code base or suppliers (in case of integrations).

·   Matrix Media is not responsible for the development and / or operational performance of any third party partners / tools used or selected by the client.

·   Client will provide the necessary graphics required for the designing tasks. Matrix Media can use Royalty Free graphics available at www.istockphoto.com, in which case the Client will have to pay the actual costs of the graphics as purchased.

·   Logo / Branding are not a part of the project.

·   Client will also provide for and do basic quality assurance to confirm features developed.

·   As per PCI Compliance Matrix Media does not store or recommend storing Credit Card information in the database.

·   Matrix Media will provide technical support via Email, phone, Messenger services only.

·   Matrix Media will be using their indigenously developed coding standards and style for the application – if the Client has any specific standards to be followed then they must be sent to the development team before start of project in a comprehensive technical document.
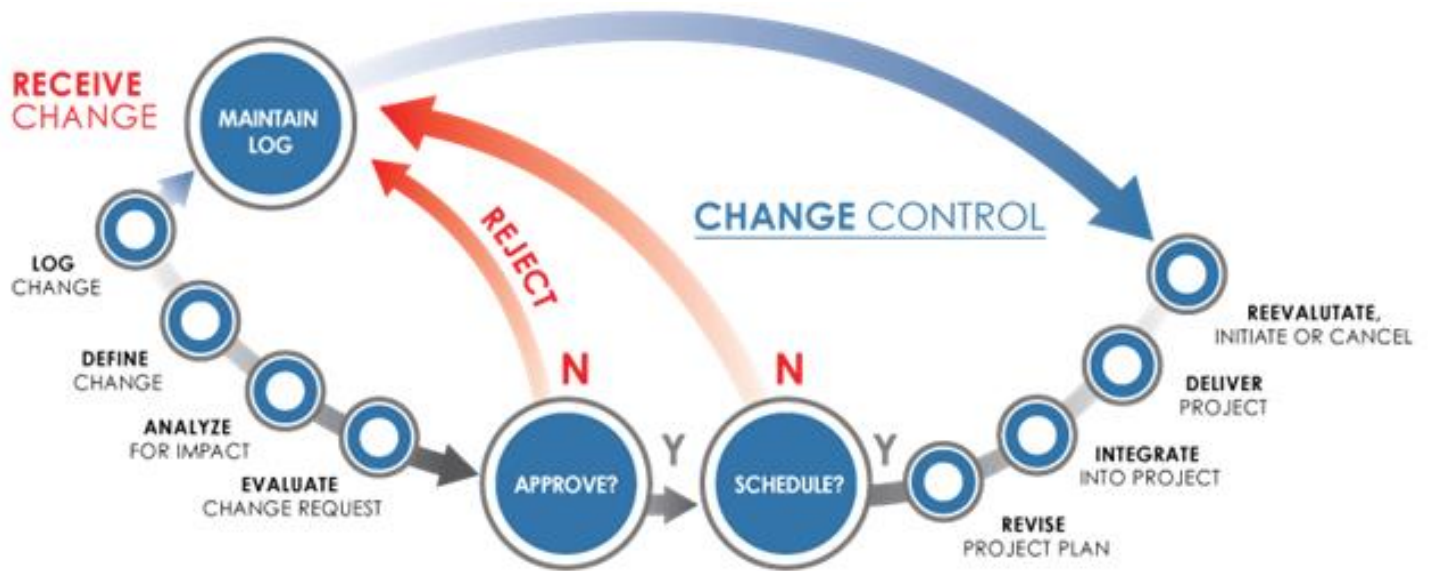
Project Management Methodology

Testing Methodology

Change Request Process

Terms and Conditions

VALIDITY

This offer is valid for acceptance within 15 working days from the date of this proposal

PROPOSED CONTRACT

Matrix Media Solutions Pvt. Ltd. (Matrix Media) has a Work Order which needs to be signed prior to starting any work.

PAYMENT OPTIONS

Payment terms are to be adhered to strictly and any non-receipt of agreed monthly payment and / or delay beyond a period of seven days would lead to delay / discontinuation / suspension of work without any liability on our part. If payment resumes after 7 days past due invoice, Matrix Media may complete retroactive work at their own discretion.

All sums due and payable that remain unpaid after any applicable cure period herein will accrue interest as a late charge of ten percent (10%) per month or the maximum amount allowed by law, whichever is less. In the event of non-payment by Client on any amount of any invoice, Matrix Media reserves the right to refer such invoice and Client to a collection agency in order for Matrix Media to secure payment on the invoice.

LIABILITY

Matrix Media is not responsible/ liable for any loss and/or damages either direct or indirect, incidental or consequential arising out of use or non-use of services and/or software and/or any product(s) provided under offer/project/contract.

Matrix Media and Client waive all claims against each other for all consequential damages arising out of or relating to this Contract. This mutual waiver includes: potential future earnings, damages incurred by the owner for losses of use, income, profit, financing, business and reputation, and for loss of management or employee productivity or of the services of such persons.

Matrix Media is not liable for any act whatsoever done by it and/or in any event beyond / exceeding one month's order/contract/project value or the amount received by it in the three months preceding the date the first claim arises, whichever is less. Under no circumstances will the initial advance, received by the Matrix Media be refunded.

DELIVERY

The project would be considered to be completely delivered on receiving the sign off and/or on completion of a calendar month (development for that month) and/or when the project is transferred/uploaded on your designated server. The full contract value needs to be cleared prior to the upload/transfer.

RESTRICTION ON BUSINESS PROPOSITION

Client is not supposed to communicate with the Developer for any reason whatsoever after completion of the Project without the permission of Matrix Media. Client is restrained from offering direct or indirect business proposition during the execution of the project and also for a period of 24 months from the date of completion of the project. This clause is binding irrespective of the status of the client or developer. A breach of this clause will be taken seriously and Matrix Media may take appropriate legal action for such a conduct.

MARKETING

Client agrees that Matrix Media reserves the right to showcase the product in its portfolio of work, brochure and for all advertising, marketing and promoting materials.

CHANGE CONTROL, ADDITIONS, ALTERATIONS

Any Additional development requirement shall form a part of a fresh scope upon mutual agreement in writing of the cost & schedule of the same. Any change, addition/alteration which in not included in the defined scope of work will be chargeable extra.

WARRANTY AND MAINTENANCE

We will have a warranty of 60 days from the date of completion and/or delivery of the work, whichever is earlier. The warranty covers fixing of bugs in the work developed as per the defined scope of work for the project.

After the expiry of the Warranty period, the Client has the option to enter into an Annual Maintenance Contract (AMC) including Search Engine Optimization contract with Matrix Media. The scope of work and the specific terms included in the AMC will be clearly defined in the AMC contract.

Matrix Media makes no warranty, express, implied or statutory, with respect to the services provided hereunder, including without limitation any implied warranty of reliability, usefulness, merchantability for a particular purpose, non-infringement, or those arising from the course of performance, dealing, usage or trade.

Any Nonconformity observed/detected within the Warranty period and which is within the scope of the project documents will be fixed by Matrix Media after receiving non-conformity intimation from the Client.

ADDITION AND ALTERATION

Any Addition and/or Alteration in the Project Scope will be mutually agreed in documentation, clearly specifying the impact of the same on the Cost & Schedule of the Project.

Approvals would be sought from the client at each stage that would be final and binding. Any change, Addition/alteration which in not included in the defined scope of work will be chargeable extra.

It is expected that client shall give its feedback within the shortest possible time and not later than 3 working days from the time approval is sought. Any change, Addition/alteration which is not included in the defined scope of work will be chargeable extra at reasonable rates as is mutually agreed by and between the parties.

Any delay due to additions/alteration made upon request of the client or due to feedback from the client shall be exempted and any claim based on the same shall be considered as waived by the client.

OTHER TERMS

All programs/applications are developed on standard server settings and delivered to customer after testing. The above mentioned price does not include any work/development relating to server setup, server installation and configuration, server management, file uploads or any sort of server related issues. Any work relating to this, if at all done, would be chargeable extra and needs to be discussed separately. At no point we are or will be responsible or liable for any sort of server related issues including those mentioned above. We will have no liability or responsibility whatsoever, even if the server may be recommended or configured by us.

Matrix Media cannot take responsibility for any infringement of any Intellectual Property Rights caused by materials submitted by the client. We believe that our client owns a copyright or the license of a copyrighted product and act on such good faith. Under no circumstances can we accept any liability for unforeseen problems or additional expenses arising from third party errors or failure to maintain sufficient backups of site(s) up to date.

The monthly maintenance will continue to be provided at the applicable rates until and unless this contract is terminated by either of the parties.

The client agrees that all products / codes / software developed under this particular project are sole and exclusive property of Matrix Media.

Client web site(s) must be hosted on a reliable web-server with sufficient uptime guarantees to ensure consistent site availability. Matrix Media may suggest improvements in the design, layout and structure of the site for better search engine optimization. Matrix Media does not represent or guarantee that the rankings obtained by you after using our services shall remain constant as SEO requirements change with each passing day and the variables involved in search engine algorithms and ranking calculations are nearly infinite.

FORCE MAJEURE

Each of the parties will in no way be held responsible to each other for non-performance of delay arising out of server and communication breakdown, hard disk crashes, virus attack, hacking strikes, wars, riots, natural calamities, act of God, any prohibition imposed by law governing the parties and/or any other causes beyond the companies reasonable control and which is anticipated in the usual course of business.

GOVERNING LAW

This offer / order / contract shall be governed by and construed in accordance with the laws of India. All disputes would be subject to the exclusive jurisdiction of Kolkata.

Conclusion

Matrix Media brings high levels of experience, technological proficiency, pre and post implementation support and timely deliveries along with fine attention to detail.

As a one-stop web and software solution provider, we take care of all the factors so that you can focus on what's most important to your business – your bottom line.

As web innovation specialists, we understand that a project has practically unlimited potential for growth. As such, the scope of the projects also undergo changes and enhancements during development. Rest assured, we factor all these points in as work progresses so that the end product is not only in line with the original vision, it also has the latest ideas and technologies supporting it.
With our experience of scores of similar jobs, we can give you the added advantage of all the skills we have acquired while developing the same.
We have been recognized by the Government of West Bengal for providing Excellence in Software Solutions. We are **a reputed** organization with a base of over 1478 clients spread across 33 countries which even include Fortune 50 companies; we're here to take your vision ahead.
Looking forward to working with you.

Thanks & Warm Regards,

Sushovan Banerjee

Business Development Manager
Matrix Media Solutions Pvt. Ltd.