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PROJECT   
PROPOSAL

**Project Tracker**

|  |  |
| --- | --- |
| **Prepared for:** | **Submission Date:**  25 April 2018  **Proposal ID:** SW/25042018/1245/1 |

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Project Contacts

|  |  |
| --- | --- |
| Client Information | |
| Project Name | Construction Management System |
| Client Name | Shobha Group |
| Client Address |  |
| Phone Number |  |
| Contact Person |  |
| Contact Person Email |  |
| Contact Person Phone Number |  |
| Contact Person Fax Number |  |
| Verbat Information | |
| Contact Person | Ms. Joyce Daniel |
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| Address | PO Box 56272, Dubai |
| Physical Address | Flat 217, Sheik Rasheed Building, Hor Al Anz East, Dubai |
| Project Information | |
| Proposed Technology/Methodology | PHP, Code Ignitor, CSS3, HTML5, Sublime Text 3 |
| Anticipate Start Date | NA |
| Proposal Valid For | 30 Calendar days from the submission of the proposal |

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# Executive Summary

Sobha Limited is an Indian multinational [Real Estate](https://en.wikipedia.org/wiki/Real_estate) Developer headquartered in [Bangalore, India](https://en.wikipedia.org/wiki/Bangalore,_India) and works in the business of construction, development, sale, management & operation, townships, housing projects, commercial premises and other related activities.

Sobha Group (hereafter referred to as “Client”) has approached Verbanet Technologies LLC., trading as Verbat Technologies (hereafter referred as” Verbat”) to develop an application to track and monitor the progress of the project.

Application Development is an area where Verbat has in-depth knowledge and expertise. Being the pioneers in Web based and windows based solutions across the major verticals, we are sure to help you enhance your customer engagement to drive differentiation. We bring proven methodologies and processes, global expertise in application development, and a legacy of best practices and ready-to-fit frameworks to expedite the development cycle and reduce the total cost of ownership.

Verbat is pleased to have received the request to submit the proposal and values it as a great opportunity to have a long term & mutually beneficial association with the client. Verbat has gone through the requirement and presents a technical proposal for the requested system. With the focus of delivering value to client, Verbat proposes a managed solution model for this requirement.

## Solution Objective

The features of the application envisaged are as cited below:

Admin Module: Admin can manage the different features of the application which includes:

* Users (add/edit/delete)
* Manage Project Type (add/edit/delete) (e.g.: Villa, Building etc.)
* Manage Service Type (e.g. Aluminum & glass facade, Exterior & Interior Work etc.)
* Manage Companies (add Company Name and Contact Details )

Manage Project: User can manage a project by performing the below steps:

* Choose Company (customers)
* Enter Order Number
* Enter Project Name
* Select Project Type
* Select Service Type
* Enter/Upload other Project Parameters/Drawing (Building , Site etc.)

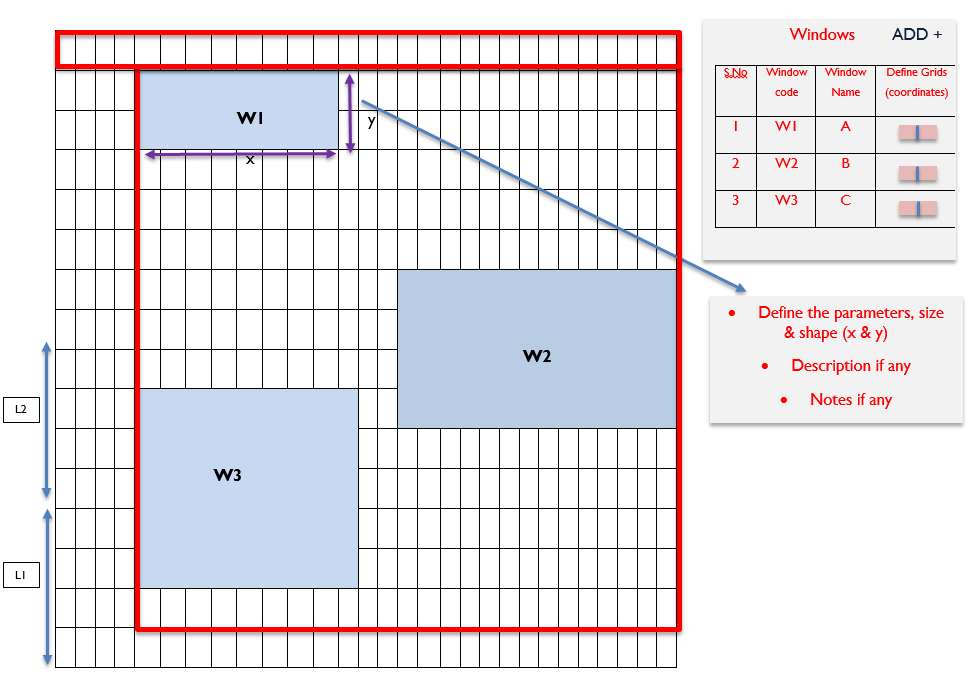
Note: Uploaded document should be in PDF/JPEG

* Create 2D elevation Drawing

Note: All the raw materials data will be managed by clients inbuilt ERP. Using API’s necessary updates will be transferred to our application.

Design Department - Create Drawing:

1. Enter Building Data: Design department can enter the necessary aspect ratio of the building /facade, like height, length, width etc. .System will create the grid based on the entered dimensions. Levels/ Floors can be defined in the Grid lines.
2. Add Windows: Design department can add the windows (as many) to the created 2D design and can position them in the design. Each window can be given a unique number/name. The windows will appear within the drawing and a unique color will be indicated e.g.: blue. The user can enter all the parameters of that particular window (design, shape, size, description, special notes if any etc.).
3. Design created by the design department will be send to the production department.



Note: It is not possible to copy and paste to different cells. Either the grid definitions can be changed in side menu or can be drawn by touchpad/mouse. Windows can be edited by increasing/decreasing the dimensions in the side menu.

Production Department – Process Drawing:

1. Production department receives the design from the Design Department and will start processing the same.
2. Progress of work can be updated on the sheet by the concerned team. Related photos can be uploaded from time to time. Recently uploaded photo will appear first and the older versions can be viewed by just scrolling up/down.
3. Percentage of completion/progress can be viewed on clicking on each window.
4. Any changes done on the design will be indicated to other users as a system alert
5. Color changes from accordingly if the work is completed as indicated below.
6. Processes under Production and Installation department will be defined in the backend. Users’ needs to update the same as the work progresses and gets updated as below.

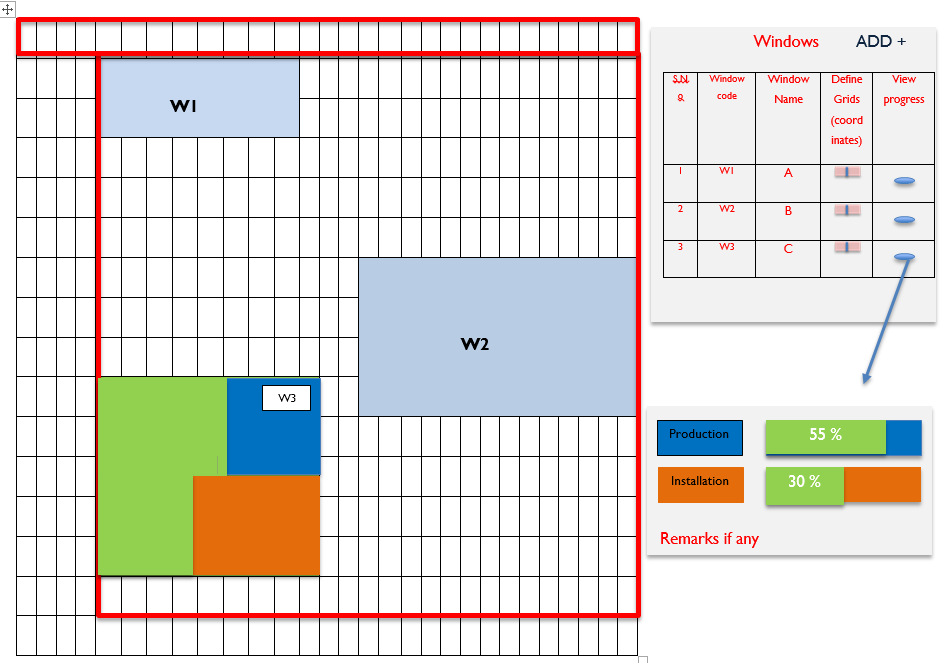
30 %

55 %

Installation

Production

Remarks if any



Note: On clicking on a particular window, it should move to a new page showing all the photos, Plan drawing and Quality Documents.

W1 Drawing

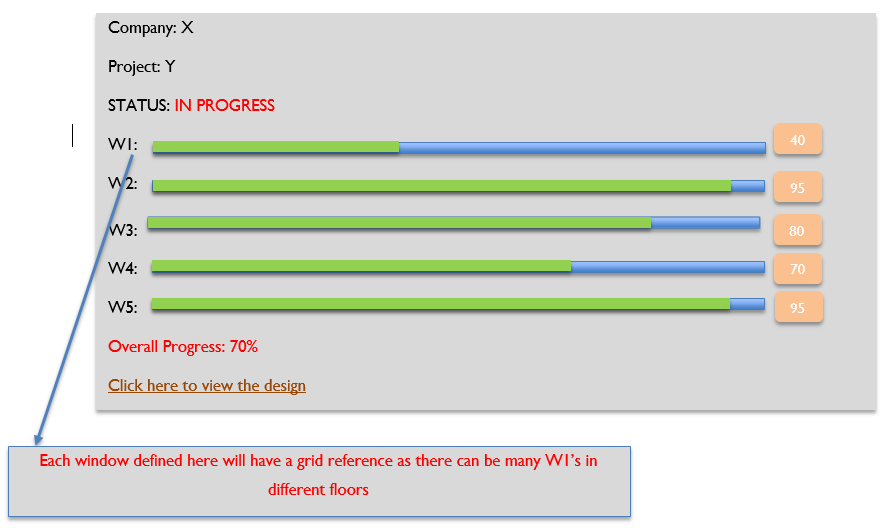
Quality Documents

Photos

Management Reports Dashboard:

1. Different types of management reports will be available in the dashboard for different parameters.

An example is depicted below:



The scope of the system includes

* Study, Design, Development & implementation of the client’s School Management System
* QA & UAT
* Application documentation (Wireframes, Requirements, Specifications & Test Cases)

.

Verbat’s Solution architects have conducted a thorough research on the requirements and have come to the conclusion that our proposed solution, which is detailed further in this document, will meet the requirements put forth by the client. And the proposed solution will be delivered in a phased approach as per Verbat‘s managed solution model.

**Strong and Scalable platform:** The platform proposed will be strong and scalable enough to accommodate future enhancements such as scheduling, auditing & logging, push notifications etc.

**Accelerated solution:** The framework would act as a solution accelerator. It would provide the basic building blocks which could be reused in future for building new components and features as part of enhancements

**High performance:** The light weight framework used consumes fewer system resources thereby making the application perform faster

* System shall be available 24/7
* System shall be performant without any lags or delays
* System should be accessible by up to 15 people at a time
* System Shall be able to store up to 10,000 soldier details at a time

**Security:** The application will be developed considering various aspects of security.

* Only authorized personnel shall have access to the system

## Advantages of Proposed Solution



01

Agile development offering reliable, scalable and secure solution

02

Smooth transition and quicker completion of processes

03

User friendly interfaces enabling easy navigation between screens

## Why Verbat

Globally Accredited

Software Consultation Partner

Spearheaded by a   
team of Technology and   
Management Leaders



Over 16+ years of customer experience with Global   
Corporations

Service in Banking, Retail, Logistics, Construction & Contracting, Fashion, Manufacturing, Hospitality, Automotive, Healthcare and Government sectors

IT Strategy, Application Development and Maintenance, Testing Services, Information Management and Digital Marketing efforts



## Key Differentiators

Delivered digital transformation expertise to global customers for over a decade by following industry best practices to maximize ROI for client

Keen technology intelligence combined with aggressive market research to deliver solutions that achieve results with measurable value

Enable access to global consulting expertise with strong local market and business knowledge

Commercial Model that is customizable for your business needs

Reuse of code libraries for Rapid Application Development

1,000,000 plus man-hours of expertise in technology frameworks spanning Microsoft, Open Source, mobility platforms and other proprietary IT technology

Partners top technology vendors to bring in the latest and best services in integration, collaboration, and development

Commercial Model that is customizable for your business needs

Proven Methodologies & Processes

Investment in R & D

Strong Local Presence

Flexible commercial Models

Technology Associations

Code Repository

Software Development Experience

Offshore Development Centre

## Underlying Support Services



# Functional Specification

The Features that have been considered for development are listed below

|  |
| --- |
| Set up development environment and server - PHP |
| Admin - |
| Dashboard |
| Manage Users |
| Manage Project Type |
| Manage Service Type |
| Manage Companies |
| Manage Project |
| Project info |
| Create 2D elevation Drawing |
| Design Department |
| Enter Building Data |
| Add Windows |
| Dynamic Screen designs and updates |
| Production Department |
| Update Work Progress |
| System Alerts |
| Production department workflow |
| Screen Updates |
| Application workflow |
| Management Reports Dashboard |

## Web Development

## Mobile Development

# Assumptions

The project solution and technology is created from the initial understanding of the requirement shared with Verbat through mails and meetings. The proposed solution is based on the following assumptions;

* Color theme shall be provided by the client
* The client shall provide the branding guidelines
* Client shall provide licensed images and logos in specified size & format
* Client shall provide software interfaces (including SDK, libraries or API) if needed
* Client shall provide payment gateway, SMS gateway, Email and SSL were required

# Out of Scope

With the ever evolving digital market, the requirement needs should be clear to both the parties involved, hence the importance of mentioning the out of scope details of the project. Following are considered to be out of scope while creating this proposal.

* Purchase of images, fonts
* Adding new features to the application other than mentioned in this proposal
* Any language other than English
* Manual data entry
* Database migration
* Content writing
* Hosting Infrastructure
* Annual Maintenance Contract ( Bug fixing, debugging, enhancements, develop new modules)
* Physical deployment at client’s site

# Technology Solution



PHP, Code Ignitor

MySql  
Linux  
Web Services

AJAX  
JavaScript  
JSON

.

## Technical Configuration

### Development Tools

* PHP, code Ignitor
* Mysql
* Web services
* Eclipse

### Browser Compatibility for Web Admin

* Chrome 56.0
* Firefox 51.0
* Internet Explorer 11

### Hardware Interface

The application is reliant on hardware interfaces to provide a seamless automated user experience.

* Computer with Windows 8 or 10 OS

# Delivery Management

## Project Management

The Verbat development center strictly follows industry standards on quality. The project management is process governed by the Verbat Quality Management system and is put to verification through internal audit programs that happen from time to time.

Verbat will dedicate a project manager for the proposed implementation. Verbat proposes Client to identify one project manager who will be driving activities to be undertaken by Client to be the single point of contact for Verbat.

## Roles and Responsibilities

Verbat will assign a dedicated Project Manager/Project Lead to lead the project, who will be the first point contact for Client. He/she will be responsible for planning and managing the various activities within the project. He/she will work closely with Client Project Manager, to give periodic status updates and ensure high level of visibility and comfort on the progress of the project.

The Project Manager/Project Lead will lead the co-ordination between Verbat and Client, thus enabling smooth transitioning of Client requirements to the Verbat’s offshore delivery team, and provide visibility as well as comfort on the progress of the services to Client.

He/she will have periodic meetings with Verbat’s Senior Management, thus ensuring Verbat’s Management commitment and focus on Client initiatives.

*Note: detailed qualification and experience of the persons involved in the project will be shared be finalizing the project on request*

## Phase Delivery Activity summary

|  |  |
| --- | --- |
| Activities | Description |
| Detailed requirement Analysis | Verbat team to conduct detailed study of requirement for the phase. If clarification is required, team will reach out to Client for more information and/or time for discussions. |
| Software Requirement Specification document (SRS) | Once the requirement analysis is completed, Verbat team will submit the SRS document for approval |
| UI/UX Design, Prototyping | Based on the SRS, Verbat UX/UI team will work on the UI/UX of the screens and submit a prototype for approval |
| Functional Specification Document (FS) | Once the Prototype. UI/UX is approved, Verbat shall submit an FS document for approval. |
| Development | Actual system development starts based on the FS. This involves detailed design and software development of Web Admin, API & iOS and Android mobile app. |
| Testing | Test Planning, test plan creations, internal, integration testing and user acceptance testing. |
| Deployment | Deploying the latest built in the Verbat Test Server. |

## Project Implementation plan

Verbat will be providing the solution in a phased approach which ensures minimum viable solution for quick wins with core focus on the long term business objective and outcome. Once the implementation of phase 1 is over, Verbat will initiate the application maintenance process which continues to extend after the implementation of successive phases.

## Deliverables

* Software Requirement Specification Document (SRS)
* Wire Frames for Key Screens
* Fully Developed & Tested Application
* Fully commented source code
* User Manual (English)

## Release Planning

* Client will be informed about the release date and time through email.
* Client performs the UAT

## Risk and Contingency planning

Verbat has identified various risk factors associated with this assignment and understands the impact of these risk factors on the project schedules. The objective of this section is to highlight for both Verbat and client, the risk factors, to analyze the impact of the risks on project execution, and to propose strategies to control and reduce the impact of the risk factors.

These various risks, which could arise during the project, are tabulated below along with mitigation implementation.

| Type of risk | Impact | Risk Mitigation | Risk Handling |
| --- | --- | --- | --- |
| Scope Creep | H | Functions and features will be detailed in system requirement documents and will go through client approval. Once this document is approved, any change to requirement will go through change management review for possible impact assessment. | Proper change management procedure will be implemented. |
| Delay in customer feedback | H | The plan is prepared with enough lead-time for customer reviews and approvals.  The customer is indicated with the dates when the document is expected after review and approval. | The request for feedback will be escalated if not attended at the right time so that the schedules are not affected. Deemed acceptance criterion is set up front and will be followed. |
| Non-availability of necessary software’s, frameworks, database instances and infrastructure at client’s hosting environment(If hosting support is provided by Verbat) | M | Client will be informed in advance on these requirements. | Possible impact to schedule. |
| Manpower attrition | L | All efforts would be made to ensure process dependence rather than being person dependent. As a risk mitigation plan Verbat will train backups. | A new person will be identified as early as possible, provided the required project-specific training and mentored by the senior members of the team to minimise impact of attrition on the project. |

*H-High, M-Medium, L-Low, NA-Not Applicable*

# Change Management

Any addition which comes out of the project scope, upon and after the launch of the tool will be considered as change management. Verbat recommends the following change management procedure for the same.

* Any change which comes out of the project scope, which was discussed, documented, and mutually approved by both the parties in the requirement stage, will be carried out only through raising a change request.
* Change request will be studied and an impact analysis on the existing work flow will be performed.
* On finalizing the impact, effort estimation for the change will be calculated and raised as additional requirement.
* Verbat will initiate the change request only after getting a formal approval from the client for the additional changes raised.
* Any change from the scope will be charged at **AED 1200 per man day effort** and approval from the clients will be availed before commencing on any change management.



# Project Effort & Timeline

## Delivery TimeLine

|  |  |  |
| --- | --- | --- |
| **Activity** |  | **Delivery Days** |
| UI UX design and prototyping |  | 3 |
| Application Development |  | 27 |

# Commercial overview

|  |  |  |
| --- | --- | --- |
| **Description** | | **Cost (USD)** |
| Web application | USD XXX,XX.00 | |
| Mobile Application |  | |
| **Total** | | **$ X,XXXX.XX** |

# Miscellaneous

## Warranty

Verbat shall provide a bug ﬁx warranty at no additional cost for 30 days from the date of acceptance of the project, for correction of any errors in the developed application that may be attributed to Verbat.

However, this does not cover modifications by Client, or use of the application on an environment other than the proposed environment, or other circumstances outside Verbat’s reasonable control. In such a case Verbat reserves the right to charge for its services.

All error corrections will be executed at Verbat India office. In the event of any need for on-site work, all expenses incurred for such trips will be payable to Verbat by Client.

## Acceptance Criteria

* UAT sign off should happen within 14 Days from the release of each module/ Phase and the acceptance confirmation needs to be mailed to Verbat failing which Verbat will consider the project as approved by the client.
* Any comments or reason for rejection need to be documented and the same needs to be sent as an email from the official mail id of client to Verbat.

## General Terms and Conditions

* Offer Valid for 30 calendar days from the date of submission of the Proposal
* An average of 20 working days are assumed in a month
* This proposal and all technical/ functional specifications have been derived or concluded from the data shared via email / information's transferred during the initial requirement analysis meetings and conversations. Verbat reserves the right to amend the terms of this proposal, should the SOW terms, functional features and functionalities change during the course of the project
* The applications will be built as per the specifications agreed mutually. Any changes will be executed through a deﬁned change management process between both parties
* All Source Code and other project artefacts would adhere to the Verbat document templates and internal coding standards
* Acceptance criteria shall be based on the clauses which were mutually discussed between Verbat and client at the Requirement Analysis phase and the same will be documented and approved by both parties through official emails
* Final deployment to production server pursuant to completion of all payments

## Assumptions and Dependencies

* During the requirement gathering phase, authorized personnel from the Client’s side is expected to be available for discussion and finalizing the HLD (High Level Design), before development commences.
* Type of reports and formats, if under the scope of the project, needs to be specified by Client before project sign off.
* Workflows need to be specified/ confirmed by client before project signoff.
* All queries regarding the client requirement and any queries which may hinder the project advancement at any stage should be answered by the client within 24 hours from the time of initiation, failing which the time delay will get added to the actual effort which was estimated.
* Verbat assumes that all sign-offs from Client will be provided within agreed and specified timeframe.
* Client will provide all the necessary contents, both text and image, before starting the project in the format suggested by Verbat (if any).
* The client should provide the relevant information and data well in time for the execution of a related activity. Non- availability of this information or data may lead to an interruption of work which may result in a delay in delivery as well as additional costs to the client.

## Source Code & Intellectual Property Rights

* Upon completion of the Project and 100% completion of the payment, client will have access to the source code except for propriety codes, developer tools and third party application / modules like Microsoft Dynamics Products, Share Point LMS etc.
* The solution offered will be the intellectual property of the client and will be made available to the client on an “unlimited license” basis.
* Modifications by third party/person: No person or organization, other than Verbat or any person authorized by Verbat in writing, has any permission to modify/change the software Solution to be eligible to get continued support from Verbat as per the support terms defined under this document.
* Liabilities/Damages: Verbat accepts no liability or damages of any kind arising out of use or non-use of the software delivered. The responsibility of testing of software lies with Client.

# Our Clients

**UAE University**

Education

Transportation

**Canada Cartage**

Construction

Services

Finance

We look forward to hearing from you soon and hope that you will give us the privilege to work with you in meeting your business goals. Thank you.

Thank You



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