

BOG: BUSINESS REQUIREMENT DOCUMENT 1

Contents

1. INTRODUCTION	2
1.1. Purpose	2
1.2. Background	2
1.3. Product Name.....	3
1.4. Business Needs.....	3
1.5. Objectives.....	3
1.6. Constraints	3
1.7. Propositions and dependencies	4
2. REQUIREMENT SCOPE	Error! Bookmark not defined.
Sign up/Log in	4
Forgot password	4
Admin Dashboard.....	5
Vendors Dashboard	5
Vendor onboarding.....	9
Client onboarding	9
Client's dashboard.....	Error! Bookmark not defined.
Product development breakdown	10
Approval Management	10
Transaction management.....	10
In-app Meeting	10
3. APP WORKFLOW	13

1. INTRODUCTION

BOG is a registered company regulated by the laws of the federal republic of Nigeria and it is focused on helping governments, the private sector, and individuals in Nigeria and throughout the world realize their dreams of building a world class structure that can compete on a global stage, with the best in the construction industry. BOG is an online marketplace which intends to provide a platform for individuals interested in owning structures in Nigeria/Africa achieve their aim.

We realized that people genuinely want to monitor and manage their projects without being encumbered by time and distance

Following the oil boom that rocked Nigeria in the 70s, there has been a significant increase in the demand for construction contracts. However, the biggest problem has been the limited number of qualified contractors and procurement of construction materials of the right quantity and quality. BOG brings together a community of construction professionals (service partners), material suppliers (product partners), and intending structure owners (client's and/or consumers) on a digitized platform.

Bog intends to provide products and services to intending structure owners using a digitized process to sell products and provide services starting from selecting vendors, professionals, generate price quotes, give clients updates via in-app notifications and emails, project tracking regarding time, cost, and task completion from the start to finish of their project.

1.1. Purpose

The purpose of this document is to describe in detail the business requirements and process of BOG and it is intended for the use of business owners and other stakeholders.

Approvals will be gotten from the business owners and relevant stakeholders to verify that all business requirements have been listed

The project is aimed at encouraging and orientating investors in construction, particularly those in diaspora, on the possibility of monitoring their projects in real time from anywhere around the world.

1.2. Background

BOG is intended to be a digitized way of getting construction management, administration, and procurement activities carried out in Nigeria with little or no hassle to our clients. Our primary focus is on diasporans. The platform will offer the following construction services to clients.

- a) Employing competent construction professionals for projects
- b) Procurement of construction materials
- c) Preparation and sourcing of construction drawings and contract documents
- d) Preparation of building cost and material estimate
- e) Services: Land survey, Geotechnical Investigations, Consultancy, Project management, Construction etc.

1.3. Product Name

BOG (Build on the Go)

1.4. Business Needs

The business need is to create a digital technology platform that makes construction process seamless and able to deliver the stated services with a specific focus on Nigerians in diaspora

1.5. Objectives

The aim of the project is to ensure that the software is available to all users, vendors and construction professionals in a timely and seamless manner whilst improving users access to construction services.

1.6. BOG User class

Super Admin

Admin

Service partners (Architect, Surveyors, Engineers etc)

Product partners

End user (clients, buyers)

1.7. Constraints

Internet connection is a constraint for the solution. Since data retrieval and storage within the solution are done online and in real-time, therefore it is critical that the system must be connected to the internet to work.

Another constraint to the solution is its dependency on other external systems to carry out certain functions such as payment, logistics etc. The implication is that when these external systems are somehow unavailable, performance of the BOG Application will be disturbed.

Hardware dependencies: Another constraint to the solution will be the devices that runs or communicates with the application. Special consideration must be given to the capabilities and features of the devices such that it aligns with the applications requirement as this will impact on overall user experience (e.g are features of the app fully compatible with mobile data or some will be unavailable due to a loss of Wi-Fi connection)

Feature level constraints based on the roles and privileges of user classes for app management and security could also be a constraint for the solution

Also, the uniqueness of the platform is a constraint.

1.8. Propositions and dependencies

Our proposition is that the solution is integrated with existing systems to ensure its optimal performance on all levels.

2. REQUIREMENT SCOPE

ID	Business Requirement	Description	Priority	Comments
BR-BOG-01	<u>Sign up/Log in</u>	<p>Users select an entity upon sign up to get personalized sign-up page (Entity would either be: service partner, product partner or a client)</p> <p>Onboarded admin users will be able to access the platform</p> <p>Onboarded admin users will be able to onboard users</p> <p>Users will be able to see their username/email address and password to log in after an initial sign up has been carried out</p> <p>Show password' toggle should be included.</p> <p>Log in successfully if username and password is correct</p>	High	<p>i) There should be a one-time verification of email address at the point of sign up</p> <p>ii) Password requirement should be specified and verified</p>
BR-BOG-02	<u>Forgot password</u>	<p>The application requires users to provide the email used during sign up to reset password</p> <p>User is prompted to input their username/email address for verification</p> <p>A password reset link is sent to the user</p> <p>User clicks on reset link, enters new password, and submits.</p> <p>Users should have the option of using a phone number or email address in place of the username</p>	High	Users' email/username should be verified via the password reset link before a new password can be inputted

		<p>Users should be able to log in with the newly setup password</p> <p>Password reset should be limited to 2 times monthly</p>		
BR-BOG-03	<u>Admin Dashboard</u>	<p>Admin can view</p> <p>Total volume of transactions carried out on the platform in real time (product & service), detailing completed, ongoing, overdue, and cancelled transactions</p> <p>Total number of clients, vendors, and professionals on the platform in real time</p> <p>Create and edit product catalogue list in real time</p> <p>Create and update product list in real time</p> <p>Authorized admin users should be able to onboard clients on the platform</p> <p>Admin has the authority to set up meetings between client and service providers</p> <p>Admin should be able to reject if documents provided is not substantial</p> <p>Acceptance/rejection by admin should generate an automated email to the service or product partner.</p>	High	
BR-BOG-04	<u>Vendors Dashboard</u>	<p>All vendors' details must be uploaded upon registration including Name, office address, Phone number, CAC, company name, year of existence, TIN, account details for payment</p> <p>Vendor should be able to:</p> <p>Accept or decline orders, give updates on</p>	High	

		<p>completion, delay, or orders in progress.</p> <p>Vendors should receive notification on orders made to them and be able to state the delivery time.</p> <p>A time tracking API be included in the vendor dashboard to notify on time slack</p> <p>See order request history</p> <p>See accepted orders</p> <p>Vendors should be able to request in-app meetings</p>		
BR-BOG-05	<u>Clients' dashboard</u>	<p>Client must select or create a project or carry out a one-off purchase</p> <p>Client should be able to request in-app meetings</p> <p>Client should be able to toggle between making purchases and requesting a service</p> <p><u>Products</u></p> <ul style="list-style-type: none"> • New arrivals • Top picks • Add to cart functionality • Product list • Product information (Specification & Price) • Similar products • Search item bar • Top reviews • Check out page <ul style="list-style-type: none"> (a) Items in the cart (b) Get final amount (c) Orders listings (d) Orders placed page (e) Order details 	High	

		<ul style="list-style-type: none"> (f) Address listing (g) Manage address (address update) (h) Order now button (i) Payment page (j) Order verification and check out page (k) Account page • Order history • Track orders • Cancel order • Request refund • Unique order number • Order status update notification • Email notification • Give a review <p><u>Services</u></p> <ul style="list-style-type: none"> • New arrivals • Select Services needed • Fill request form • Add to cart functionality • Product list • Product information (Specification & Price) • Similar products • Search item bar • Top reviews • Check out page • Bill detailing total amount • Get final amount • Address listing • Manage address (address update) • Manage delivery email address • Request for quote now button • Payment page () • Order verification and check out page • Account page 		
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		<ul style="list-style-type: none"> • Order history • Track orders • Cancel order • Request refund • Unique order number • Order status update notification • Email notification <p>Give a review</p>		
BR-BOG-06	<u>Service partners dashboard</u>	<p>Service partners details must be filled out upon registration including:</p> <p>Name, office address, Phone number, email address CAC number, Company name, Years of practice, TIN, BVN and bank account details.</p> <p>Service partners should be able to:</p> <p>Upload professional certificates, tax certificates, operational license</p> <p>A unique code is generated after document upload has been completed and admin has verified.</p> <p>Service partners should be able to:</p> <p>Accept or decline orders, give updates on completion, delay, or orders in progress.</p> <p>Service partners should receive notification on orders made to them and abide by BOG's delivery time.</p> <p>A time tracking API be included in the service partners dashboard to notify on time slack</p> <p>See order request history</p> <p>See accepted orders</p> <p>Service partners should be able to request in-</p>	High	

		app meetings		
BR-BOG-07	<u>Vendor onboarding</u>	All vendors' details must be uploaded upon registration including Name, office address, Phone number, CAC, company name, year of existence, TIN, Bank account details	High	
BR-BOG-08	<u>Professional Onboarding</u>	Upon registration, professionals provide details such as: Name, office address, Phone number, company name, Certificate of Operation, professional membership certificates, Bank details		
BR-BOG-09	<u>Geolocator</u>	Users should be able to track transactions in real time Clients should be able to track transaction progress in real time	High	
BR-BOG-10	<u>Client onboarding</u>	All clients' details must be uploaded upon registration including: <u>PRIVATE CLIENT</u> Name Phone number Email Address Country of Residence State City Street <u>CORPORATE CLIENT</u> Company name, Phone number Email Address Office address CAC Year of existence, TIN, Bank account details	High	Request for payment method will be made at the point of payment

BR-BOG-11	<u>Product development breakdown</u>	Authentication: Sign up with form Sign up with Google Sign up with Facebook Sign in with Form Sign in with Google Sign in with Facebook		
BR-BOG-12	<u>Approval Management</u>	Authorized admin users should be able to manage all pending approvals on the admin. Manage approvals:	High	
BR-BOG-13	<u>Transaction management</u>	Authorized admin user should be able to manage all transactions on the platform Admin user should be able to view in detail all transaction that has been carried out Admin user should be able to view transaction reference Admin user should be able to export report and metrics Admin user should be able to filter transaction by dates, status, name, and reference number Transaction reports should be available in docx, pdf, csv or excel Authorized admin should get prompts when vendor completes product delivery to trigger payment as at when due	High	Transaction details should be updated per transaction Data export should be optional
BR-BOG-14	<u>In-app Meeting/ Chat Box</u>	Admin should be able to set up meeting Client should be able to request for a meet Vendor should be able to request for a meet Admin should be able to set up in app conference meetings	High	Client and Vendor's request for a meet should be sent to the admin with a notification

BR-BOG-15	<u>Report management</u>	<p>Admin should be able to view and export reports such as:</p> <p>Payment trajectory</p> <p>Active/inactive vendors</p> <p>Clients by location</p> <p>Number of BOG's web page visit, and the number of clients signed up on the BOG platform (web and app)</p>	High	
BR-BOG-16	<u>Log out</u>	<p>Users should be able to log out of the application with a confirmation pop up asking user to confirm they want to log out. Upon consent, log out should be immediate</p>	High	
BR-BOG-17	<u>Order cancellation</u>	<p>Client should not be able to cancel order after vendor has accepted.</p> <p>Client should only be able to cancel order while order is still processing</p> <p>Buyer/client cannot cancel order while order is in transit</p> <p>Vendor can accept or decline order</p>	High	
BR-BOG-18	<u>Order routing</u>	<p>Services requested should be displayed for specified vendors dashboard</p> <p>Order allocation will be on a first to accept basis.</p>	High	
BR-BOG-19	<u>Case Management</u>	<p>All feedbacks or complaints logged should be reflected on the admin dashboard</p> <p>Admin should be able to treat issues and update case status</p>	High	
BR-BOG-20	<u>Security Requirements</u>	<p>2 factor authentication should be enabled for all users</p> <p>Session should time out after 3 minutes of</p>	High	

		<p>inactivity with user logging in again to access account.</p> <p>User should be able to carry on transaction from last session before time out</p> <p>Account should be locked after two failed attempts at logging in. User should contact admin to regain access</p> <p>User profile should be protected during information transmission and storage at all levels. Users should only have access to data as defined by the entity selected at the point of signup (either as a client, vendor or professional)</p>		
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SERVICE FLOW SESSION				
BR-BOG-21	Sign up/Log in	<p>Client signup would follow the pattern as described in BR-BOG-01 above</p> <p>Client can toggle from the product to the service page to request services.</p> <p>Service request should be routed specifically to selected service partner</p>	High	
BR-BOG-22	Service partner	<p>Client should be able to request for service providers</p> <p>Client should be able to choose between:</p> <ol style="list-style-type: none"> 1) get a construction professional from the list of service partners 2) construct your building <p>Client should be able to select from the list of available services</p>	High	
BR-BOG-23	Price/ Cost estimator/calculator	<p>Clients should be able to request for service price quotes in real time</p> <p>Specific quotes are generated for specific service request based on a professional scale of fee and other algorithms as provided by BOG</p> <p>Generated price should be in ranges</p> <p>Price quotes will be estimated sequel to details provided in the service workflow below</p>	High	
BR-BOG-24	Land survey	<p>Client fills a request form and submits documents</p> <p>Cost is generated based on agreed rate and algorithm</p> <p>Client pays 80% of generated fee</p> <p>Registered surveyors get the request prompt</p> <p>Surveyor accepts service request and starts to generate a work program</p> <p>Work program template is shared with client</p> <p>Work program is uploaded and reflects on the admin's dashboard</p> <p>Admin notifies client of work completion</p> <p>Client completes payment</p> <p>Finished work automatically reflects on client's dashboard and sent to their mail</p>	High	

BR-BOG-25	Soil Test	<p>Client fills a request form and submits documents</p> <p>Cost is generated based on agreed rate and algorithm</p> <p>Client pays 80% of generated fee</p> <p>Registered surveyors get the request prompt</p> <p>Surveyor accepts service request and starts to generate a work program</p> <p>Work program template is shared with client</p> <p>Work program is uploaded and reflects on the admin's dashboard</p> <p>Admin notifies client of work completion</p> <p>Client completes payment</p> <p>Finished work automatically reflects on client's dashboard and sent to their mail.</p>	High	
BR-BOG-26	Architectural drawing	<p>Client fills a predetermined request form</p> <p>Admin gets a notification prompt</p> <p>Registered architects get notified</p> <p>Admin selects choice architect based on specified criteria</p> <p>Admin sets up an in-app meeting</p>	High	
BR-BOG-27	Structural drawing	<p>Client fills a predetermined request form</p> <p>Admin gets a notification prompt</p> <p>Registered architects get notified</p> <p>Admin selects choice architect based on specified criteria</p> <p>Admin sets up an in-app meeting</p>	High	
BR-BOG-28	Mechanical drawing	<p>Client fills a predetermined request form</p> <p>Admin gets a notification prompt</p> <p>Registered architects get notified</p> <p>Admin selects choice architect based on specified criteria</p> <p>Admin sets up an in-app meeting</p>	High	
BR-BOG-29	Electrical drawing	<p>Client fills a predetermined request form</p> <p>Admin gets a notification prompt</p> <p>Registered architects get notified</p> <p>Admin selects choice architect based on specified criteria</p> <p>Admin sets up an in-app meeting</p>	High	
BR-BOG-30	Getting a construction	<p>Client fills a predetermined form and updates all required information</p>	High	

	professional	Client indicates if the necessary construction related services have been carried out to determine project cost Client indicates the type of building to be constructed (religious, residential, educational, or commercial) Client makes 95% payment Building contractors gets a notification prompt Vendor submits work plan to admin Client sees work progress in real time		
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List of service partners

Surveyor

Structural engineer

Civil engineer

Architect

Building contractor

List of available services

Land survey

Soil test

Architectural drawing

Structural drawing

Mechanical drawing

Electrical drawing