

# TOR for Programmer

#### 1. Introduction

Maldives Hajj Corporation is seeking to hire a highly motivated and dedicated programmer to help develop a new system.

### 2. Objective

The objective of the programmer will be to assist our in-house IT team in the development process by coding, testing, debugging and follow up maintenance service post implementation for the new system.

#### 3. Duration

6 months

### 4. Key Tasks

- Develop the new system as per the analysis and design provided by the IT team at MHCL
- Prototyping and relevant testing as required and planned schedule
- Providing constructive criticism for the changes required to be made from the perspective of the programmer.
- Study & understand the workflow and provide proper logical responses as needed
- Assist and mentor the inhouse IT team to manage the system post implementation and handover
- Work with the team to ensure the seamless development of the backend and frontend.
- Work with end users and internal staff for timely resolution of issues
- Provide proper information to the IT team in order to prepare the documentation accordingly.
- Documentation, and user guides in accordance with standards.
- Design and develop systems using TDD approach to development

## 5. Eligibility Criteria

- Bachelor's Degree (MQA Level 7) in Information Technology or related IT field.
- 4+ years of experience in programming (should include Java, PHP(Laravel) and VueJS/React Native)
- Solid understanding and experience in HTML5/CSS/JavaScript



- Strong background in industry best practices and modern design patterns
- Experience with Source Control (Git or TFS)
- Excellent communication skills

#### Added Advantage

- Master's in software engineering / IS related Specialization
- Strong programming background with knowledge in modular based programming and use of emerging trends.
- Good problems solving skills to address issues optimally with quick response timing
- Front end UI/UX designing is a massive advantage
- Working knowledge of REST/RESTFUL APIs
- In=depth understating of the SDLC
- Good writing skills in Dhivehi and English

#### 6. Remuneration and other benefits

MVR 25,000 - 30,000 per month

To be paid based on the schedule and timely completion of assigned tasks and deliverables

- Pre-designed and finalized workflow that ensures minimal scope modifications
- In-house team to assist where and when necessary
- Physical attendance is not compulsory
- Flexible working with key focus on deliverables
- Possibility re-hiring for future modules development

### 7. Payment Schedule

- Upon completion of Prototype V1 − 15%
- Upon completion of Prototype V2 20%
- Upon completion Final Prototype 20%
- Completion of Testing 10%
- Successful Implementation and Go-Live 15%
- Maintenance & Bug Fixes 20%

#### 8. Workhours estimation

- Total Estimate = 810 hrs (Approximately)
- Estimated Workhours per week: 40hrs (8 hours per day)



# 9. Reporting

- All working should be reported weekly to Project Manager with breakdowns where relevant.
- **NOTE:** Payment schedule will depend upon the reports + deliverables

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### **Project Timeline & Deliverables**

Project Timeline & Denverables		
Stages	Duration	Deliverables
Pre-Coding Phase Preparations	40 hrs	Updated & Finalized Designs
Coding Phase 1 – Base System	120 hrs	Prototype V1
<ul> <li>Backend &amp; Frontend</li> </ul>		
Database Creation & integration		
Testing Phase 1 – Prototype V1	6 hrs	Revised & Updated Scope
Base System Testing		
<ul> <li>Stakeholders Feedback &amp; Bug Fixing</li> </ul>		
Coding Phase 2 – Main Modules	216 hrs	Prototype V2
Backend		
<ul> <li>Member Management</li> </ul>		
<ul> <li>Trip Management</li> </ul>		
o CRM		
<ul> <li>Application Management</li> </ul>		
<ul> <li>Finance Management</li> </ul>		
<ul> <li>Report Management</li> </ul>		
<ul> <li>Raasthaa Management</li> </ul>		
• Frontend		
<ul> <li>Members Registration</li> </ul>		
<ul> <li>Member Profile Management</li> </ul>		
<ul> <li>Hajj Service Management</li> </ul>		
<ul> <li>Umrah Service Management</li> </ul>		
<ul> <li>Kathilun Services Management</li> </ul>		
<ul> <li>Training Services Management</li> </ul>		
Testing Phase 2 - Prototype V2	6 hrs	Revised & Finalized System
<ul> <li>Modules Testing</li> </ul>		
<ul> <li>Stakeholders Feedback &amp; Bug Fixing</li> </ul>		
Coding Phase 3	104 hrs	Final Prototype
API Integrations		
Auditing & Error Reporting Module		
System Settings & Config Module		
UI/UX Refining		
Testing Phase 3 – Final Prototype	6 hrs	Fully Finalized System
Full System with Migrated Data		•
Usability & Performance Testing		
Stakeholders Feedback & Bug Fixing		
Implementation Phase 1 – Change Management	4 hrs	Go-Live Ready system
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Change Management Plan		
<ul> <li>Go-Live Preparations</li> </ul>		
Implementation Phase 2 – Go-Live	16 hrs	Live & Functional System
Maintenance Phase - Major & Minor Bug Fixing	150 hrs	-
Support Phase - Training inHouse IT Team	50 hrs	-
Documentation	30 hrs	Complete Documentations

# Tasks Breakdown (Detail)

#	Task		
	PROJECT KICKOFF		
	Pre-Coding Phase Preparations		
1	Allocation of resources as per request of the development team		
2	Finalize design of the new system to initiate Coding Phase		
3	Setup of test environments to carry out modular testing		
	Coding Phase 1 - Backend (Base System)		
4	Develop the base system for the web application		
5	Configure the view and content Management structure		
6	Allocate structural capacity to introduce multiple modules		
7	Create a Dashboard for Index view of the system		
8	Construct the User Interface (for navigation purpose, requires to be refined later on)		
9	Create an Error Log View		
	Coding Phase 1 - Frontend (Base System)		
10	Develop the base system for the web application		
11	Configure the view and content Management structure		
12	Allocate structural capacity to introduce multiple modules		
13	Create a Dashboard for Index view of the system		
14	Construct the User Interface (for navigation purpose, requires to be refined later on)		
	Coding Phase 1 - Database Creation & Integration		
15	Create a structural database based on the schema created from the system design		
16	Identify the unique identifiers of each table		
17	Ensure correct table to table relationships are established		
18	Integration of DB to the current Base system developed		
	Testing Phase 1 - Prototype V1		
19	Current Base System design consolidation		



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20	Base system testing
21	Presentation of the base system to the Stakeholders for feedback
22	Compile feedbacks for revision of base system proposed by the stakeholders
23	Make changes to the base system accordingly
24	Make changes to the database (if required)
	Coding Phase 2 - Backend (Member Management Module)
26	General, Corporate & SDS Members Profile Management
27	General, Corporate & SDS Members Fund Management
28	Slot List Management (Hajj Specific)
29	Pension API Integration
30	Pension Funds Management (Pension Eligible Members)
	Customer Hajj Account Management
31	+ General Scheme Account
	+ Raastha Account
32	Customer Umrah Account Management
33	Customer Trainings Management
	Coding Phase 2 - Backend (Trip Management Module)
34	Trips Hajj & Umrah (CRUD Operations + View)
35	Trip Management with CRUD operations for both Trip Types
	Trip Function "List" with SubAction(s):
36	+ View List
	+ Download List
	+ View Offers
37	Trip Function "Passport" with SubAction(s)
	+ Collect/Release
	Trip Function "Checklist" with SubAction(s)
38	+ Edit Items (CRUD Operations)
	+ Issue/Check Items
	+ Groups (CRUD Operation)
	Trip Function "Bookings" with SubAction(s)
39	+ Flight (CRUD Operations + View)
	+ Bookings (CRUD Operations + View)
	+ Buses (CRUD operations + View)



40	Trip Function "Finances" with SubAction(s) + Room Sales (CRUD Operations + View) + Trip Transactions (View) + Receipts (View) + View Balances (View)	
41	Trip Function "Trip Actions" with SubAction(s) + Edit Trip(CRUD Operation) + Close Trip + Regenerate Hajj List	
42	Trip Function "Phone" with SubAction(s) + Check/Enter Number (CRUD Operation + View) + Visa Reader	
43	Trip Function "Prints" with SubAction(s)  + Passport Stickers  + Hajj Card  + Luggage Tag  + Luggage Tag Large  + Room Board  + Pre-Travel info Sheet  + Reference Letters  + Agreements  + Passport Data Page List  + Bus List  + Bus Numbers  + Handbag Tag  + Madina Check-in Card  + Mahram Approval Document  + Above 45 Document	
44	Discount Management (Umrah)	
	Coding Phase 2 - Backend (Customer Relationship Management Module)	
45	Cases Management (CRUD Operation + View) + New Cases + View Cases + Groups	



	Classification Types for Cases
	+ Call Inquiries
46	+ Client
	+ Internal
	+ Trip Related
	Coding Phase 2 = Backend (Applications Management Module)
47	Manage Applications (CRUD Operation + View)
48	Check & Verification options for Information Update Request Forms
49	Documents Attachment option
50	Today's Member Documents (view)
	Coding Phase 2 - Backend (Finance Management Module)
	Payments Management (View)
	+ Ageega Payments
	+ Pending First Payments
<b>-</b> 1	+ Shop Transactions
51	+ Trip Specific Transactions
	+ Training Payments
	+ SDS Payments
	+ Raastha Payments
52	Revision Requests (CRUD operations + View)
<b>5</b> 2	Transfer Management (CRUD Operations + View)
53	+ Credit Transfers from Account to Account
	Collections Management (View)
54	+ My Collections Today (User Specific)
	+ All Collections (Role Based)
55	BML Payment Gateway (View)
33	+ Online Payments through BML Portal
	Coding Phase 2 - Backend (Reports Management Module)
	Standard Reports (Fixed Templates)
56	+ Financial Reports
30	+ Corporate Reports
	+ Operational Reports
57	Customized Reports (Multiple Custom Filters)
	Audit Repots
58	+ Logs (with filters)
	+ Custom Reports



	Raasthaa Reports
59	+ Raastha Plans
	+ Raastha Fund Management + Raastha Stats
	Coding Phase 2 – Backend (Raastha Module)
60	Raastha Fund Management
61	Raastha Slot Management
62	Raastha Control Management
	Coding Phase 2 - Frontend (Member Registration Module)
63	Signup/Registration Form Customer Portal
64	Digital Form for Registration
65	Add DNR API to introduce DNR Verification of the Customer
66	Opt Customer to Register to either Hajj/Umrah Service
67	Add T&C with Consenting "Agree & Disagree" Button to complete registration
68	Send Customer Instant SMS once Agreed and Registration is complete
69	SMS Customizer to available for Administrator
	Coding Phase 2 - Frontend (Member Profile Management Module)
70	Add Profile Management of Customer (CRUD Operation + View)
71	Permanent Information of Customer(view)
72	Permanent Information requires customer to submit a form to edit the Information
73	Current Information of Customer (Edit + View)
74	Current Information is editable when customer wishes
	Document Upload Function to be Available
75	+ ID Card
"	+ Passport Copy
	+ Others
	Coding Phase 2 - Frontend (Hajj Services Management Module)
76	Registration Option at Portal Registration or Once Signed in
77	Digital Form for Hajj Registration (General Scheme or Raastha)
78	Additional Hajj specific Information Digital Form Submission
79	Add T&C with Consenting "Agree & Disagree" Button to complete registration
80	Documents Attachment option (if required)
81	Synchronize with Backend to create Member Account with Hajj Fund
82	Make Payment to Hajj Account
83	Payments to be Verified from Backend before Crediting into Account



	Coding Phase 2 - Frontend (Umrah Services Management Module)	
84	Registration Option at Portal Registration or Once Signed in	
85	Digital Form for Umrah Registration	
86	Additional Umrah specific Information Digital Form Submission	
87	Add T&C with Consenting "Agree & Disagree" Button to complete registration	
88	Documents Attachment option (if required)	
89	Synchronize with Backend update Umrah Pilgrim Member Profile	
90	View List of "Open" Umrahs with Package Prices	
	Coding Phase 2 - Frontend (Kathilun Services Management Module)	
91	Registration for Ageega, Sadhagaath or Others through Digital Form	
92	Child or Children Information to be filled (only in Ageega)	
93	Select the Number of Goats	
94	Add T&C with Consenting "Agree & Disagree" Button to complete process	
95	Payment Option with Summary	
96	Redirect to BML Payment Gateway	
97	Payment State to be Synchronized with Backend	
Coding Phase 2 - Frontend (Training Services Management Module)		
98	List of Open Trainings	
99	Registration Function to the training through Digital Form	
100	Number of Slots to reserve	
101	Add T&C with Consenting "Agree & Disagree" Button to complete process	
102	Payment Option with Summary	
103	Redirect to BML Payment Gateway	
104	Payment State to be Synchronized with Backend	
	Testing Phase 2 - Prototype V2	
105	integration of all Main Frontend & Backend Modules	
106	Database Integration to all corresponding Modules	
107	Module testing, Usability Testing & Synchronization Testing	
108	Full Workflow Testing of All Modules	
109	Compile Results of testing and address found issues	
110	Presentation of the system to the Stakeholders for feedback	
111	Compile feedbacks for revision of system proposed by the stakeholders	
112	Make changes to the system accordingly	
113	Make changes to the database (if required)	
	Coding Phase 3 - API Integrations	
114	Integrate BML Payment Gateway API for Online Payment Option	



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115	Integrate DNR API to full System		
116	Integrate Pension API to Manage Pension fund-based Hajjs		
	Coding Phase 3 - Auditing Module		
117	Track changes made by users		
118	Track all transactional actions		
119	Track all critical actions		
	Coding Phase 3 - Error Reporting		
120	Collect all error types thrown by the system		
121	Alerts & Notifications of errors		
	Coding Phase 3 - System Settings & Configurations		
122	Adjustable rates for all services provided		
123	Adjustable application specific settings		
	Coding Phase 3 - Compatibility		
124	To enable multi browser compatibility		
125	To enable mobile view compatibility		
	Coding Phase 3 - UI/UX Refining		
126	Refine User Interface based on feedbacks received and Prototypes testing		
127	Ease of Access to an Optimized Workflow		
128	Simplify Service Rendering		
129	Simplify Service Provision		
130	Understandable Navigation		
131	Enhanced Usability for challenged People		
132	Reduce Load times & error		
133	Reduce Workflow Redundancies		
	Coding Phase 3 - Security		
134	Optimize Security measures of the system		
135	Integration enhanced validation functions where appropriate		
136	Secure communication between Frontend & Backend		
	Data Migration to new DB		
137	Extract all data in the old system		
138	Restructure all data into a proper template		
139	Load the data onto New Database		
140	Check & Verify is migrated data is properly integrated		
	Testing Phase 3 - Final Prototype		
141	Integration of all Modules, Functions & Services		
142	Ensure availability of all resources and data		



Have users feed test data into the system both from the frontend and backend Check if the system is performing as needed Check accuracy of data communicated from frontend and backend Collect user feedbacks to address all bugs Fix the bugs in the system Present the system to the stakeholders Get signoff consent to Go-Live with new system Implementation Phase 1 - Change Management Plan Prepare implementation schedule Prepare implementation approach Prepare resources for Go-Live Date Notify all users of the System Changeover Ensure Contingency plans are in place Prepare Rapid Support Team to tackle issues Implementation Phase 2 - System Implementation Take old system offline Go-Live with new system So-Live with new system Helpdesk Support & Minot Bug fixes Identification of possible flaws & Carry out Major Bug Fixing Helpdesk Support & Minot Bug fixes  Support Phase - Training inHouse IT Team Provide training on development support of the system (i.e., bug fixing, refining & version upgrading) Provide training on technical maintenance of the system (i.e., API Management, Data Updating, Backup & Archive Support)  Documentation Prepare documentation of the full system accordingly Documents update frequency should be phase by phase Source Code of the Software (Original)				
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159 Ensure helpdesk and support is on standby  Maintenance Phase - Major & Minor Bug Fixing  160 Helpdesk Support & Minot Bug fixes  161 Identification of possible flaws & Carry out Major Bug Fixing  162 Further Refining existing system on areas that can be improved  Support Phase - Training inHouse IT Team  Provide training on development support of the system (i.e., bug fixing, refining & version upgrading)  164 Provide training on technical maintenance of the system (i.e., API Management, Data Updating, Backup & Archive Support)  Documentation  165 Prepare documentation of the full system accordingly  166 Documents update frequency should be phase by phase  167 Source Code of the Software (Original)  Manual Documentation (Users & Admin)		Implementation Phase 2 - System Implementation		
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PROJECT HANDOVER AND CLOSURE	168	Manual Documentation (Users & Admin)		
		PROJECT HANDOVER AND CLOSURE		