Software Requirement Specification

Project: MHADA – Computerization of Mumbai Board under digitization of MHADA

Version no. 1.1

Document Control Sheet	
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Revision History			
Version	Date	Name	Comments
1.0	30/07/2018	Arati	SRS Document
1.1	21/08/2018	Arati	SRS - Update in Land directory fields

Table of Contents:

Reference Documents:

Sr. No	Reference Document name
1.	RFP document
2.	MOM dated 13th July 2018
3.	MOM dated 6th August 2018
4.	MOM dated 8th August 2018
5.	Document received by land Manager

1. Purpose of this Document

This document specifies the functional specifications of MHADA web portal to Computerisation of manual processes of different departments. The document helps the business stake holders to understand what to expect out of the portal & technical stake holders to understand what to deliver.

The Functional Requirements Specification will:

- Define the scope of business objectives, business functions and organisational units covered for the project
- Identify the business processes that the solution must facilitate
- Facilitate a common understanding of what the functional requirements are for all parties involved in the project
- Establish a basis for defining the acceptance tests for the solution to confirm that what is delivered meets requirements.

Summary:

Client wants to develop Web portal for computerization of manual processes of different departments of MHADA. This Web Portal provides common platform to all Mhada departments & external stakeholders to communicate.

Portal will allow land department to maintain record of all land under Mhada. Also to maintain data under society/school etc.

2. Scope of the Functional Requirement Specification

In Scope
Land Manager (LM)

3. User Roles

User Role	Role Description	Device	End user capacity
Land Manager	**Land directory;** Lm will maintain record of all lands under MHADA. LM will be able to maintain record of society/schools etc. in land area in land directory. Also, LM will be able to maintain society level details, lease details, payment details.	Web Portal	Unlimited

4. Functional Requirement:

4.1: LAND DIRECTORY:

4.1.1 Login:

Actors	Land Manager
Requirement Definition	Land manager will be able to login to the portal to the system and use the portal.
Pre - Condition	Land Manager will be able to login by using valid credentials.
Post - Condition	Land Manager will be able to login to the application.

Business Rules / Logic	Land Manager will be able to login from the start screen of the application.
	
	After Successful login on Web portal, Land Manager will be able to avail the services.
	
	Login:
	They will be able to login using their credentials:
	  ▪ Username
	  ▪ Password
	  ▪ Capcha code
	Land Manager will be able to login to the system
	
	On click of "Login" button, user will be logged into the portal.
	
	▪ **Forgot Your Password?**
	
	  - On click of "forgot your password", Land Manager will be asked to enter their email address.
	  - If system finds a match of email address in the database, a temporary password will be sent to Land Manager on the provided email ID. Land Manager will be able to login

	into the portal and they will directly be navigated to "reset password" screen where they will have to enter new password and confirm that password. - Land Manager will be asked to create new password and then they can access the portal.
Fields and Validation	• On successful validation of login credentials, Land Manager can view / access portal. • If username and password is incorrect, Land Manager will be prompted to enter correct username and password.

Username	Text Field
Password	Text Field
Capcha	Text field
Sign In	Button
Forgot Password	Link

4.1.2 Land Directory:

Actors	Land Manager (LM)
Requirement Definition	Land Manager will be able to apply for recruitment of architect panel
Pre - Condition	Land Manager has successfully registered on MAITRI portal.
Post - Condition	Land Manager will be able to login to the application.

Business Rules / Logic	Land Manager will maintain Land directory; with all details of land.
	
	Search;
	LM will be able to find unique search application by entering keywords.
	
	Filter;
	- LM will be able to sort information by type of land
	- LM will be able to filter information by date.
	
	Print;
	LM will be able to print information in table.
	
	Download;
	LM will be able to download .csv format.
	
	Land Directory;
	Land directory carries following details;
	- Board – Mumbai (drop list)
	- Sr. no (system generated)
	- **Village name** (Land Name)
	- Type of land (Source of Land)
	   - Acquired land
	   - Government Land
	   - Purchased Land
	   - Other land
	- Address of Land

- District
- Taluka
- Total Area (in Hectare)
- Date of Possession
- Remark
- Is 7/12 extract available (yes/no, upload if yes)
- Is 7/12 on MHADA's name (yes/no)
- Property card
- Is Property card (PR card) is on MHADA's name (yes/no)
- Land Cost

Village wise (Land wise) details;

On the click on 'Village name', Land Manager will redirect on 'Village details page'.

LM will be able to view following details of village;

- Society name
- District
- Taluka
- Village
- Survey number
- CTS no
- Chairman
- Society Address
- Area (sq. ft. / sq. mtr.)
- Date mentioned on service tax letters
- Surplus charges
- Last date of paying surplus charges
- **Lease details;**
- Others;

    o SRA
    o Amenity plot
    o Plot handed over BMC or others
    o Vacant plots
    o Office building

	Lease details; On the click on lease details, LM will redirect on Lease details page. Lm will be able to view following details; - Lease rule 16 & other - School/society/ others on lease basis - Area (sq. ft. / sq. mtr.) - Lease Period - Start date of lease - Land rent / lease rent - Month to start collection of lease rent - Interest as per Lease agreement, in % - Date of Renewal of lease - Period of renewed Lease - Lease rent as per renewed lease - Interest as per renewed Lease agreement, in % - Month to start collection of lease rent as per renewed lease - Payment details
Fields and Validation	**Assumption;** - All details of land directory, LM has to enter. **Condition;** - LM /EM/ Conveyance will receive alerts for society whose lease period are ending - On the click on 'Payment details', LM will redirect on monthly payment details record of respective society in e-billing system. - Property cards will be displayed from layout master of Architect dept.

4.1.3 Add details in Land directory:

Actors	Land Manager (LM)
Requirement Definition	LM will be able to add/edit offer letter application.
Pre - Condition	LM has logged in using valid credentials.
Post – Condition	LM will be able to add/edit information as per need.

Business Rules / Logic	Land Manager will be able to manage i.e. add / edit / delete land directory by clicking on edit icon.
	
	Land details;
	
	Land Manager will be able to add details of land by entering following details;
	- Board – Mumbai (drop list)
	- Sr. no (system generated)
	- **Village name** (Land Name)
	- Type of land (Source of Land)
	    - Acquired land
	    - Government Land
	    - Purchased Land
	    - Other land
	- Address of Land
	- District
	- Taluka
	- Total Area (in Hectare)
	- Date of Possession
	- Remark
	- Is 7/12 extract available (yes/no, upload if yes)
	- Is 7/12 on MHADA's name (yes/no)
	- Property card
	- Is Property card (PR card) is on MHADA's name (yes/no)
	- Land Cost
	
	On the click on save, details of new land will be added to directory.

Society details;

On the click on 'add society details', LM will be able to details of society on the respective land.

LM will be able to add following details of society;

- Society name
- District
- Taluka
- Village
- Survey number
- CTS no
- Chairman
- Society Address
- Area (sq. ft. / sq. mtr.)
- Date mentioned on service tax letters
- Surplus charges
- Last date of paying surplus charges
- **Lease details;**
- Others;

    o SRA
    o Amenity plot
    o Plot handed over BMC or others
    o Vacant plots
    o Office building

Lease & renewal of lease details;

On the click on 'add Lease & renewal of lease details', LM will be able to details of Lease & renewal of lease for respective society.

- Lease rule 16 & other
- School/society/ others on lease basis
- Area (sq. ft. / sq. mtr.)
- Lease Period
- Start date of lease
- Land rent / lease rent

	- Month to start collection of lease rent - Interest as per Lease agreement, in % - Date of Renewal of lease - Period of renewed Lease - Lease rent as per renewed lease - Interest as per renewed Lease agreement, in % - Month to start collection of lease rent as per renewed lease - **Payment details**

Fields and Validation	**Condition;**
	
	- On the click on 'Payment details', LM will redirect on monthly payment details record of respective society in e-billing system.
	
	Validation;
	
	- Interest as per Lease agreement, in %
	  • Value should be numeric & not more than 100
	- Interest as per renewed Lease agreement, in %
	  • Value should be numeric & not more than 100
	- LM /EM/ Conveyance will receive alerts for society whose lease period are ending

Add Land details	Button
Add society details	Button
Download	Button
Upload	Button
cancel	Button

4.1.4 Edit/ Delete Land directory:

Actors	Land Manager (LM)
Process Description	LM will be able to add/edit offer letter application.
Pre - Condition	LM has logged in using valid credentials.
Post - Condition	LM will be able to add/edit information as per need.

Business Rules / Logic	Once Application is submitted by candidate, application will be visible to architect department dashboard & list of applications.
	
	Edit details;
	LM will be able to edit land directory by clicking on 'Edit'. On the click on edit LM will redirect on Edit land details page;
	
	Delete details;;
	On the click on 'Delete', user will be able to delete land entry in land directory.
	
	On the click on Delete, LM will get pop-up window to reconfirm the delete entry for selected entry.
	
	Land directory should maintain activity Log, for changes done in the directory.
	Activity log contains following information;
	    - Name of land
	    - User name (who changed details)
	    - Day & Date of change
	    - Time of change
	    - Changed filed names
	    - Reason for change

Fields and Validation	Assumptions;	
	- User manual will be provided at the time of UAT.	
	Edit	Button
	Delete	Button
	Cancel	Button

5. Operating Environment:

The proposed web portal will be compatible with following browser.

Browser	Version	Operating System
Internet Explorer	IE 11 onwards	Windows/ Linux/Mac
Mozilla Firefox	Firefox 55 & above	Windows/Linux/Mac
Google Chrome	Chrome 50 & above	Windows/ Linux/ Mac
Safari	Safari 10.0 & above	Mac

6. Assumption & Dependencies:

- Assumptions;
    - o Web will support only English & Marathi language
    - o Marathi will be accepted in Unicode format only.
    - o Client will bear the cost of all the 3rd party APIs required for the development of the system.

- Dependencies;
    - o Department Hierarchy of Land department is yet to be received.
    - o Please note that, anything beyond scope will be considered as change request.

7. Limitations:

NA

8. External Interfaces/API:

- Third party API integration for;

  1. Email & SMS gateway
     - To send alerts of receiving new application at department
     - To receive alert if application is assigned to respective user.

9. Technical Requirement:

- Development Tools – PHP (code igniter), MsSQL
- Design Tools – HTML5