SRS Sortable Rating System

# Project Description

Sortable Rating System is an application which will collects the reviews and ratings for a variety of businesses submitted by users.

The application will help users to Search/Filter and Rate businesses based on various parameters (region, race, in specific categories).

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# Specifications

Web application will have follower types of users:

* Administrators (Admin Users)
* Site Users

## Administrators (Admin) Panel

Admin users are the users who will be able to do the following:

* User Management
* Website Configuration
* Business List Management
* View Dashboard
* Category Management
* Review Management
* Static Pages Management
* Newsletter Management

### User Management

Administrators will be able to View a list of users in the application. List can be filtered further based on various fields. Add/Edit/Remove/View a user profile (Users Form Fields are listed below) from the list of users. Admin will also be able to “Activate/Deactivate” one/multiple users.

* First Name
* Last Name
* Gender
* Email Address\*
* Password \*
* Address
  + Line 1
  + Line 2
* City
* Zip/Pin code
* Phone
* Profile Photo

Fields with an asterisk (\*) are mandatory while other are optional.

Remove one or multiple entries from application

* Soft removal, to be managed by some flag e.g. ‘is\_deleted’ field in the database

### Website Configuration

Administrators will be able to set some parameters that are applied throughout the web application as listed below:

* Number of results in search on a page
* Email Configuration for newsletters
* APIs related credentials

### Business Management

Administrators can do following for a business/service:

List all the business entries. List can further be filtered based on various fields (as mentioned below)

Create a new or update an existing business listing with fields as mentioned below:

* Business Name
* Business Category (Restaurant, Security, Hotel, General Store etc.)
* Address
  + Line 1
  + Line 2
* City
* State
* Country
* Zip/Pin code
* Phone
* Email
* Website
* Photos
* Short Description
* Detailed Description

Removeone or multiple entries from application

* Soft removal, to be managed by some flag e.g. ‘is\_deleted’ field

View a business entry from application with all the details.

### View Dashboard

Administrators will be redirected on the Dashboard page on successful login. The dashboard page will show some statistics and graphs (to be decided by client)

### Category Management

Administrators will be able to View a list of business categories in the application. List can be filtered further based on various fields. Add/Edit/Remove a category from the list of categories. Admin will also be able to “Activate/Deactivate” one/multiple entries.

Remove one or multiple entries from application

* Soft removal, to be managed by some flag e.g. ‘is\_deleted’ field in the database

#### Review parameters

Administrators can chose the applicable Review Parameters (mentioned in the next section) for a category form the list while Adding/Editing a Category. One category can have multiple parameters. Also same parameter can be used for multiple categories.

### Review Management

Administrators will be able to View a list of Review Parameters in the application. List can be filtered further based on parameter name. Add/Edit/Remove a parameter from the list. Admin will also be able to “Activate/Deactivate” one/multiple entries.

Remove one or multiple entries from application

* Soft removal, to be managed by some flag e.g. ‘is\_deleted’ field in the database

Following are the parameters to start with:

* Customer Support
* Availability
* Dark People Community Friendly
* White People Community Friendly
* Jew People Community Friendly
* Latin People Community Friendly
* Asian People Community Friendly
* South Asian (Indian sub-continent) People Community Friendly
* Affordability/Cost
* Waiting Time
* Real Time feedback
* Peek Time
* Parking Amenities

### Static Pages Management

Using this management Admins will be able to manage content of some content pages (e.g. Terms of Service, Privacy Policy, About Us etc.)

Admin can view a list of available pages. Admin can update contents of a page by “Editing” the page. These pages can not be deleted and no new pages will be added from the Control Panel. Page editor will have a “WYSIWYG Editor” for rick text formatting.

### Newsletter Management

Using this management Admins will be able send email newsletters to registered users.

Admin can Add/Update/Remove/Views newsletters from the list of available newsletter entries. Newsletter content editor will have a “WYSIWYG Editor” for rick text formatting.

## Front End

* Home Page
* Registration
  + Email/Phone Verification
* User Authentication
* Search Form
* Filters
* Results Page
* Business Detail Page
* Rate/Review a Listing
* Static Pages
* My Profile
* Suggest a Listing

### Home Page

Home page will be a static page with some image slides, Search Form, Registration/Login Forms. Anonymous as well as logged in users can view this page.

### Registration

A new/anonymous user can register for an account on this page. A user can register with minimum following information.

* Email Address
* Password
* Confirm Password
* Phone#

*Application will accept only valid email address and password (Regular Expression based)*

*# Phone verification will require some 3rd party service to send OTP verification code.*

*Please chose any one of the below so that we can consider utilizing it for the application*

|  |  |
| --- | --- |
| ClickSend | Telesign SMS Verify |
| Twillio |  |

*Twillio is pretty popular and old player in the game.*

*ClickSend is very competitive with their pricing and is gaining more popularity among critics and community.*

On submission of the above details a link will be sent to User’s registered email address for verification. User will be able to login only after the email verification.

### User Authentication (Login)

Registered users as well as Admin user will be able to log in to the application using the form to Login on the Home Page/Header section.

We will use one-way encryption for the passwords so that no one can decrypt a password.

### Search Form

There will be a search form on the Home page. A user can search for businesses/services and narrow down the search results using various filters as mentioned in the Filterssection.

### Filters

Search will have following filters:

* Name contains
* Country (dropdown list)
* State(dropdown list)
* City (dropdown list)
* Zip code
* Community friendly (dropdown list)

### Results

Upon submitting the “Search Form” user will be redirected to Results Page. This page will list all the business entries as per the search criterion defined in the Search Form. Results list will have some basic information about a business as detailed below:

* Name of the business (clickable link)
* Photo/Logo of the business (clickable link)
* Short description (maximum text length following by “…” in case short description exceeds the maximum text length)
* Rating (e.g. 3.5/5)

Clickable link(s) will redirect the user to Business Details page as mentioned in the next section.

### Business Details Page

This page will display all the information/fields for a Business (as detailed in section ). Layout will be based on the design (to be determined by design team). A section with Photo Slide show can also be displayed. On this page a form for Review will also be implemented

### Business Rating/Review

A user can rate a business listing for various parameters (as mentioned in section ). Rating system will be based on “Out of 5 stars” system. These review parameters will be based on the business category. Rating will be 5-star based system. Where 1 is least weighted and 5 is most weighted.

### Static Pages

There will be 3-5 links in the footer of every page. Content of these pages will be supplied by Client/Content Team.

* Terms of Service
* Privacy Policy
* About Us
* Page X (in case there is a need for more static page)
* Page Y (in case there is a need for more static page)

### My Profile

Logged in users will be able to update their profiles in the section (fields mentioned in section ).

### Suggest a listing

Logged in users can suggest a new business listing using a form. Fields of this form will be same as mentioned in section .Upon submission of the form user will be greeted with a message stating that ‘the listing has been submitted for the Administrator to review. It will be displayed in the results after Administrator approval’.

## Queries

* Where the initial data of Business Listings is to get from?

*Below are some databases available to download/purchase*

|  |  |
| --- | --- |
| Pre-populated 500 US companies (Free) |  |
| <https://www.uscompanieslist.com/purchase.html> | USD 299.00 |
| <https://gumroad.com/l/USA-Business-Database> | Base USD29.99  Business USD 299.99 |

## Application architecture

### Software Requirements

Application will preferably use open source assets.

**Development Environment**

|  |  |
| --- | --- |
| Operating System | Windows 10 |
| Web Server | Apache 2.x |
| Database Server | MySQL 5.x Community Edition |
| Programming Language | PHP 7.x |
| PHP Framework | Laravel |

**Production Environment**

|  |  |
| --- | --- |
| Operating System | Linux (any distro, preferable CentOS/Ubuntu LTS) |
| Web Server | Apache 2.x |
| Database Server | MySQL 5.x Community Edition |
| Programming Language | PHP 7.x |
| PHP Framework | Laravel |

### Hardware Requirements

Application will preferably use open source assets.

**Development Environment (Minimum requirements)**

|  |  |
| --- | --- |
| Processor | Intel i3/AMT Ryzen 3 |
| Memory | 2GB |
| Storage | 2GB |
| Hosting Type | Not Applicable |

**Production Environment (Minimum requirements) \***

|  |  |
| --- | --- |
| Processor | Intel i3/AMT Ryzen 3 |
| Memory | 2GB |
| Storage | 2GB |
| Hosting Type | VPS or Shared hosting with shell access |

*\*Hosting is not included in the cost of the application development. Client will be required to purchase a server/hosting space for the application to be deployed on project delivery.*

*\* Application will be deployed on our servers during the development phase and will be accessible to the client for testing/review purposes.*

## Work breakdown structure

Below the Work breakdown structure (WBS) of the application covering all the modules to be developed and deliverable.

|  |  |
| --- | --- |
| **S.No** | **Module** |
| Project Initiation | |
| 1 | Home Page Design |
| 2 | Internal Page Design |
| 3 | Review Page Design |
| 4 | HTML Conversion |
| 5 | HTML integration with framework |
| 6 | Database Design |
| 7 | Framework setup and configuration |
|  |  |
| Admin Panel | |
|  | User Management |
| 8 | List |
| 9 | Details |
| 10 | Add/Edit |
| 11 | Remove |
|  | Website Configuration |
| 13 | List |
| 14 | View |
| 15 | Edit |
| 16 | Remove |
|  | Business Category Management |
| 17 | List |
| 18 | Details |
| 19 | Add/Edit |
| 20 | Remove |
|  | Business Management |
| 21 | List |
| 22 | Details |
| 23 | Add/Edit |
| 24 | Remove |
|  | Review Parameters Management |
| 25 | List |
| 26 | Details |
| 27 | Add/Edit |
| 28 | Remove |
|  | Static Pages Management |
| 29 | List |
| 30 | Details |
| 31 | Edit |
| 32 | HTML Editor integration |
| 33 | Approve/Reject a listing submitted by user |
|  | Newsletter Management |
| 34 | List |
| 35 | Details |
| 36 | Add/Edit |
| 37 | Remove |
| 38 | HTML Editor integration |
| 39 | Send Newsletter to Users |
| Front End/Main Application | |
|  | User Login |
| 40 | User Authentication and Session Management |
| 41 | My Profile |
| 42 | Update Password |
| 43 | Update Profile |
| 44 | User Regisration |
| 45 | Email verification |
| 46 | Phone verification + SMS Gateway integration |
| 47 | Search Form |
|  | Search Filters |
| 48 | Name contains |
| 49 | Country (dropdown list) |
| 50 | State (dropdown list) |
| 51 | City (dropdown list) |
| 52 | Zip code |
| 53 | Community friendly (dropdown list) |
| 54 | Results Listing and Paging |
| 55 | Business Details Page |
| 56 | Photo Gallery/Image Slider |
|  | Business Ratings |
| 57 | Overall Average Rating |
| 58 | Parameter Based Rating |
| 59 | Rate a business on various ratings |
| 60 | Suggest a listing |

## Code versioning and access

Development Team will create a repository on GitLab for the project. Development Team will manage and maintain the repository till the Project sign-off. During this period Client will be given read/write access to the code and related resources.

## Project Cost

Both the parties (Client and Door2Web) have agree that the project will be developed with a fixed cost budget at USD 4900 which will include all the deliverable items/tasks mentioned in [sections 1](#_Administrators_(Admin)_Panel), [section 2](#_Front_End) and [section 5](#_Work_breakdown_structure) of this document.