**Web Application Documentation**

1. **Website name:**

**Luqatah**

1. **Domain name:**

**Main:** www.luqatah.net

**Alternatives:** www.luqatah.com**,** www.luqatah.org

1. **Category:**

**Charity (Non-profit).**

1. **Users:**

**All the world, especially the Arab World.**

1. **About the website:**

**Luqatah.net is an Arabic website for announcing and searching for lost and found items.**

**The website is completely free to use.**

1. **Aim of the website:**

**The website aims to provide a technical solution in the form of a web application that brings together persons missing their items and those finding these missing items, by enabling users to announce lost and found items, as well as to search in loss and finding announcements.**

**Additionally, upon creation/modification of an announcement, the website automatically performs matching between loss and finding announcements by comparing item(s) data, date and location if present. If the website finds correspondent announcements, both parties are notified of the matching by e-mail so that they can view the matching announcements and communicate with each other if needed.**

1. **Website pages:**
2. **Home page:**

* **Lost something:**
  + **Create a loss announcement.**
  + **Search in found items.**
* **Found something:**
  + **Create a finding announcement.**
  + **Search in lost items.**
* **Log in / Sign up / Log out button:**
  + **Appears as “Log in / Sign up” when user is not logged-in.**
  + **Appears as “Log out” when user is logged-in.**
* **User’s account button:**
  + **Appears only when user is logged-in.**
* **Language switch button:**
  + **Switch between Arabic (default) and English.**
* **Menu:**
  + **Help.**
  + **Privacy Policy.**
  + **Contact us.**

1. **Log in / Sign up Page:**

* **Sign up:**
  + **Using username, e-mail and password.**
  + **E-mail is the primary key and should be unique for every user. It is verified by sending a verification link to activate the user’s account.**
  + **Username is not the primary key and it is not required to be unique for every user. It has no special requirements except it should not be blank.**
* **Log in:**
  + **Using e-mail and password.**
* **Forgot password:**
  + **Reset password by e-mail.**

1. **Create a loss announcement:**

**User can create a loss announcement containing one or more lost items.**

**Only logged-in user can create announcements.**

1. **Create a finding announcement:**

**User can create a finding announcement containing one or more found items.**

**Only logged-in user can create announcements.**

1. **Search announcements:**

**Search loss and finding announcements by announcement number or announcement data.**

**User can search announcements without logging-in.**

**User can view, bookmark and print any announcement appearing in the search result. He can also report an announcement as inappropriate and write a comment to be reviewed by website administrator.**

**Only logged-in users can bookmark announcements appearing in search results.**

1. **User’s account:**

* **User’s data:**
  + **User can change username.**
  + **User can’t change e-mail.**
  + **User can change password.**
* **My announcements:**
  + **User can view a sortable list of his loss announcements and a list for his finding ones.**
  + **User can view, edit, delete/undelete and print any of his announcements.**
  + **When user deletes an announcement, it is archived including photos contained in it for 30 days. After this period, included photos are automatically deleted from the server, but user can still undelete his announcement without photos.**
  + **User can view a list of announcements matching with his ones. He can also mark/unmark any of them as “Checked” for easier screening.**
  + **User can view, bookmark and print any matching announcement. He can also report an announcement as inappropriate and write a comment to be reviewed by website administrator.**
  + **User can enable or disable e-mail notifications about matching for any of his announcements.**
* **Bookmarked announcements:** 
  + **Loss announcements.**
  + **Finding announcements.**

1. **Help:**

* **Some instructions about using the website.**

1. **Privacy policy:**

* **Website privacy policy.**

1. **Contact us:**

* **E-mail: info@luqatah.net**
* **Phone. +20-111-luqatah (+20-111-5872824)**
* **WhatsApp: https://wa.me/201115872824**
* **Facebook: https://www.facebook.com/Luqatah**
* **Facebook Messenger: https://m.me/Luqatah**

1. **Administrator control panel:**

**Used by website administrator to perform some control activities including:**

* **Users Management:**
* **Browse list of users, sort it by any column and search users by e-mail or private comment.**
* **List user’s announcements.**
* **Add / Remove users’ accounts.**
* **In-Activate / Re-Activate users’ accounts.**
* **Mark/unmark users as “Checked” for easier screening. Also, a private comment can be added to each user.**
* **Announcements Management:**
* **Browse list of loss announcements and list of finding announcements, sort it by any column and search announcements by number or private comment.**
* **In-Activate / Re-Activate** **announcements.**
* **Remove announcements.**
* **Mark/unmark announcements as “Checked” for easier screening. Also, a private comment can be added to each announcement.**
* **Review announcements reported as inappropriate by users and read their comments, In-Activate announcement or mark as “False Report”.**
* **Item Data Fields Management:**
* **Add / Remove / Edit Categories and Sub-Categories.**
* **Add / Remove / Edit “Additional Details” fields with specified patterns for Categories and Sub-Categories.**
* **Administrator Management:**
* **Change / Recover Administrator’s password.**

1. **Requirements:**
2. **A responsive, mobile-ready website, for total usability across all devices.**
3. **A clean code that is easy for any developer to understand and handle later.**
4. **Delivery of the complete source code for the website.**
5. **Site upload and deployment and server setup.**
6. **SSL certificate.**
7. **Linking to Google Analytics.**
8. **SEO optimization.**
9. **Instant automatic redirection from alternative domain names (**[www.luqatah.com](http://www.luqatah.com) **and** [www.luqatah.org](http://www.luqatah.org)**) to** [www.luqatah.net](http://www.luqatah.net)**.**
10. **Matching and searching of “Additional Data” fields will be a partial search and matching score is used in sorting the searching / matching results.**
11. **Mapping and geospatial tools are required to:**

* **Input location data in loss/finding announcements creation.**
* **Input location data in loss/finding announcements search.**
* **Input found property retaining party address in finding announcements.**
* **Match lost and found items by location.**

1. **E-mail service is required to:**

* **Send confirmation link during sign up process.**
* **Send password reset link during forgot password process.**
* **Send e-mail about matching updates for “My announcements” if enabled.**

1. Website developer will be involved in legal processing of registration in Intellectual Property Rights (IPR) Office at (ITIDIA).
2. **Used tools:**
3. **HTML.**
4. **CSS.**
5. **JavaScript.**
6. **Bootstrap.**
7. **Angular.**
8. **Python.**
9. **PostgreSQL.**
10. **phpPgAdmin (pgAdmin).**
11. **PostGIS (ST\_Intersects):**

**For matching between location data of lost and found announcements.**

1. **Leaflet.js:**

**JavaScript library for interactive maps.**

1. **Openstreetmap:**

**The base map.**

1. **OSRM / Leaflet Routing Machine:**

**For routing**.

1. **Turf.js:**

**(Buffer transformation) for client-side visualization of the buffer.**

1. **Nominatim:**

**For geocoding and reverse geocoding.**

1. **Geoplugin (IP Geolocation):**

**For identifying website visitor country by IP address.**

1. **Draggable JavaScript library from Shopify:**

**For rearranging route waypoints.**

1. **Maintenance and support:**

- Technical support for bugs that may appear within the specified time period.

1. **Out of budget:**
2. **Domain names.**
3. **Hosting.**
4. **E-mail service.**
5. **SSL certificate.**
6. **Intellectual Property Rights (IPR) Office fees.**
7. **Attachments:**
8. **Website logo.**
9. **Website map.**
10. **Website flow chart.**
11. **Website wireframe.**
12. **Announcement data details.**
13. **List of Categories, Sub-Categories and related additional details.**
14. **List of additional details data formats.**