# Domain Name Monitoiring And AlertingSystem

# DomainKinG

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**Abstract:**

It is an online web application which contains a registry of domains and alerting system for the expired date of domains to the users.

**Modules:**

**1. User Administration:**

Admin is the person who maintains the website .He is the only person who monitor the database. Admin can edit, update and delete the website information and the user information .And he is the only person who can solve all errors in the website.

**2. UserRegistration:**

The user is the person who visits the website. First the user needs to be registered. The user has the ability to search the domains, and can buy the domains from the client. The domain should have an expired period. And the user should get an alerting message or an alerting email during the period of domain expiration.

**3. User login verification withsms:**

User login verification is an extra layer of security for the user's account. Instead of only entering a password to login to an account ,you also enter a code which is sent to your mobile phone. This verification helps make sure that the user, can access their own account.

**4. User login veification with e-mail:**

This is another layer of security for the user's account.The user will get an e-mail asking to verify their authenticity.

**5. Registrar API:**

Here, we are integrating Registrar API into our project. This will help us to check the availability of the domain, it will help us to check the pricing of the said domain.

**6. Domain renewal auto emailalert:**

The user will get an alerting mail from the admin for the renewal of domain prior to its expiration.

**7. Domain renewal auto smsalert:**

The user will get an alerting sms from the admin for the renewal of domain prior to its expiration.

**8. Domain Affiliate ID fetchModule:**

Another integration of API is used for the retrieval of ID of the particular domain

**9. Report:**

  **a. Expired Domain Details Report:**There will be a database fortheexpired domains updated daily.This report contains User-id, domain-id, and expired dAate will also be given.

  **b. To be Expired Domain Details Report:**There will be a database for the working domains as well.user-id, domain-id, created date and expiry date will also beprovided.

  **c.Email Report Module:**There will be a database for the mails that have been already sent for the users as an alert for their domains. user-id, domain-id and send date will be shown.

  **d.SMS Report Module:**There will be a database for the sms that have been already sent for the users as an alert for their domains.The user-id,domain-id and send date will be given.

## Design1.Login

## Page:

  The first Page will have the website logo and buttons for login and signup. On clicking these buttons, it will open up a modal for their respective use cases.

a) The signup modal will have the following textboxes for the user to sign up to our website :

- username: to enter the username. Username can beAlphanumeric

- first_name: to enter the first name. First name must be entirely alphabetic.

- last_name: to enter the last name. Last name must be entirely alphabetic.

- email: to enter the email address. Email can be alphanumeric and it must contain '@' symbol.

- password: to enter the password. Password can be alphanumeric, can contain special characters and must be atleast 8 characters in length.

- Captcha to ensure robots don't enter thewebsite.

- button forlogin.


> sub-signup modal will have some more text boxes with further informationcomprising:-

- user_id:provided by the admin. It will bealphanumeric.

- address : to enter the address. At least 20characters.

- phone_num: to enter the phone number. It must be entirely numeric and must be atleast 10 characterlong.

- fax_num: to enter the fax number.

- submit button.

b) The login modal will have the following textboxes and the loginbutton:

- username: to enter the username,username can bealphanumeric.
- password: to enter the password. Password can be alphanumeric, can contain special characters and must be atleast 8 characters in length.


The login modal will also have other options (login with twitter, login with facebook,login with gmail). There is also a provision to **reset your password**, incase you forgot the password (Mail Sending). On login, the user will be redirected to the Home Page.

2. **Admin-page:**

- The admin page contains all the important information such as the ownership details and the status and expiry dates of thedomain.

- The admin will also have access to the details of thecustomers.


- The complete log of the E-mail and sms alert system will also be kept in the admin page.

- Admin has the access to editing the status of the domain and also the authority to delete a particularowner.

3. **Home Page**(userpage):

- The Home Page will contain the company logo,some icons for Help and contact. It will also contain images according to theidea.

- A search bar will also be provided for searching domain namesand finally buying the domain.

- It will also contain images according to theidea.

- Addittional Info about the company will also be provided.

- "About" Hyperlink will be provided under the Home Page which redirects to an informativepage.

- "Contact me" Hyperlink will also be provided which redirects to a page containing the neccessary contactdetails.

4. **Search page**

- The user will be redirected to this web page containing the search results.

5. **Aboutpage**

- It contains all the required information for the users about the web-application and itsservices.

6. **Contact Page**

- This page consists of the contact information such as phonenumber,e-mail address, skype id and many other contact informations of the company which helps the user to ask and clear theirqueries

# Database Design

### 1. User

| Field Name | Data type | Constraints |
|---|---|---|
| user_id | INT | PRIMARY KEY |
| user_name | VARCHAR(25) | |
| first_name | VARCHAR(25) | |
| last_name | VARCHAR(25)I | |
| E-mail | VARCHAR(25) | |
| Password | VARCHAR(25) | |
| Salt | VARCHAR(25) | |
| user_status | INT | |
| user_created_date | DATETIME | |
| user_updated_date | DATETIME | |

### 2. Details

| Field Name | Data type | Constraints |
|---|---|---|
| Id | INT | PRIMARY KEY |
| user_data | INT | FOREIGN KEY (user) |
| Address | VARCHAR(25) | |
| Mobile no: | INT | |
| Fax no: | VARCHAR(25) | |

### 3. Domain

| Field Name | Data type | Constraints |
|---|---|---|
| Id | INT | PRIMARY KEY |
| Affiliate | INT | FOREIGN KEY (user) |
| domain_name | VARCHAR(25) | |
| start_date | DATETIME | |
| end_date | DATETIME | |
| registered_date | DATETIME | |

### 3. Working Domaindatabase

| Field name | Data type | Constraints |
|---|---|---|
| Id | INT | PRIMRY KEY |
| domain_id | INT | FOREIGN  KEY(Domain) |

### 4. Expired Domaindatabase

| Field name | Data type | Constraints |
|---|---|---|
| Id | INT | PRIMARY KEY |
| domain_id | INT | FOREIGN KEY(Domain) |

### 5. Emails

| Field name | Data type | Constraints |
|---|---|---|
| Id | INT | PRIMARY KEY |
| sent_to | INT | FOREIGN KEY(user) |
| sent_by | INT | FOREIGN KEY(user) |
| Scenario | INT | |
| Status | INT | |
| date_time_sent | DATETIME | |

### 6. SMS

| Field name | Data type | Constraints |
|---|---|---|
| Id | INT | PRIMARY KEY |
| sent_to | INT | FOREIGN KEY(user) |
| sent_by | INT | FOREIGN KEY(user) |
| Scenario | INT | |
| Status | INT | |
| date_time_sent | DATETIME | |