Rest API: User

Document Revision History

|  |  |  |
| --- | --- | --- |
| **Date** | **Version** | **Description** |
| 1/14/2017 | 1.0 | Initial Write-up |
| 1/21/2017 | 1.1 | Add operation: /api/user/developers |

# Data Type: User

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Mandatory** | **Description** |
| id | integer | x |  |
| userName | string | x |  |
| firstName | string |  |  |
| lastName | string |  |  |
| email | string | x |  |
| phone | string |  |  |
| state | string |  |  |
| country | string |  |  |
| zip | string |  |  |
| role | string | x | User role.  Values:   * V – Volunteer user * O – Organization user * C – C4SG admin * D – C4SG developer |
| latitude | string |  | Latitude of the user’s location. |
| longitude | string |  | Longitude of the user’s location. |
| github | integer |  | Github commits from the C4SG developer |
| displayFlag | string |  | Whether to display the C4SG developer on About Us page.  Values: Y | N | null   * Y – Display for C4SG developer * N – Don’t display for C4SG developer * null – N/A, not C4SG developer role |
| status | string | x | User status, value: [Pending | Active | Deleted] |
| createDate | string | x | The date that user is created |
| updateDate | string | x | The date that user is updated |

# Operations

|  |  |  |
| --- | --- | --- |
| **Operation** | **Method** | **Description** |
| /api/user/all | GET | Returns all users.  Sort by post date in descending order. |
| /api/user/search/byId/{id} | GET | Search for user by ID. |
| /api/user/search/byUsername/{username} | GET | Search for user by username. This is wildcard search. |
| /api/user/search/yname/{firstName, lastName} | GET | Search for user by first name and last name. This is wildcard search. |
| /api/user/create | POST | Create a user. |
| /api/user/update | PUT | Update a user. |
| /api/user/delete/{id} | DELETE | Delete a user.  Soft delete by marking the database record as deleted, don’t delete the physical record. |
| /api/user/developers | GET | Returns a list of volunteer developers for C4SG web site. Sort by Github comments in descending order. |

# Appendix

## Operation: /api/user/developers

### Requirement from Frontend

* Support for Google Map

About Us page displays Google Map showing C4SG developer’s locations. The frontend page is currently hard coded with mock up geographic data. The REST API operation should:

* Supply geographic locations of C4SG developers.

ngOnInit(){

var destination = {lat: 41.779, lng: -88.207};

var map = new google.maps.Map(document.getElementById(‘map’), {

zoom: 4,

center: destination

});

var marker = new google.maps.Marker({

position: destination,

map: map

});

}

* Support for Developer Profiles

About Us page displays clickable icons for each developers, ranking in descending order of Github commits. The REST API operation should:

* Filter out developers that don’t want to show up in About Us page
* Sort the result set in descending order of Github commits

### REST API Operation

|  |  |
| --- | --- |
| Operation | /api/user/developers |
| Data Type | Modify the User data type to add the following fields:   * role * latitude * longitude * displayFlag |
| Implementation | Return with a list of user satisfy the following criteria:   * User Role = C4SG Developer * Display = Yes * Descending order by Github commits |

### Database

#### Table Structure – AS IS

-- Table structure for table `user`

DROP TABLE IF EXISTS `user`;

CREATE TABLE `user` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`email` varchar(100) NOT NULL,

`phone` varchar(100) DEFAULT NULL,

`state` varchar(100) DEFAULT NULL,

`country` varchar(100) DEFAULT NULL,

`zip` varchar(100) DEFAULT NULL,

`status` char(1) NOT NULL,

`create\_time` timestamp NOT NULL DEFAULT CURRENT\_TIMESTAMP ON UPDATE CURRENT\_TIMESTAMP,

`change\_time` timestamp NOT NULL DEFAULT ‘0000-00-00 00:00:00’,

`delete\_time` timestamp NOT NULL DEFAULT ‘0000-00-00 00:00:00’,

PRIMARY KEY (`id`)

);

#### Table Structure: TO DO

Add following columns:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Column Name** | **Data Type** | **Nullable** | **Default** | **Description** |
| role | char(1) | not null |  | User role.  Values:  V – Volunteer user  O – Organization user  C – C4SG admin  D – C4SG developer |
| latitude | varchar() |  |  | Latitude of the user’s location.  TODO: research on how to what the data type should be |
| longitude | varchar() |  |  | Longitude of the user’s location.  TODO: research on how to what the data type should be |
| github | integer |  |  | Github commits from the C4SG developer. |
| displayFlag | char(1) |  |  | Whether to display the C4SG developer on About Us page.  Values: Y | N | null  Y – Display for C4SG developer  N – Don’t display for C4SG developer  null – N/A, not C4SG developer role |

#### Database Documentation

Update the database script for the database change:

* \Documentation\Database\Table\_Definition.sql
* \Documentation\Database\Data\_Load.sql

Load additional fields with dummy data. We will create another task to populate latitude/longitude for geographic locations. We will manually populate github commits.