**API Specification Doc**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Description** |
| 1.0 | 01-07-2023 | Rashid kp | Initial draft |
|  |  |  |  |

## **Schema:**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | /api/schema/ |

## **Swagger-ui:**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | /api/swagger-ui/ |

## **Documents:**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | /api/redoc/ |

## **Land registration (raw method):**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | /api/cadastre/register\_land/ |

## **Request**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| email | Land registration to user | String |
| locality |  | string |
| district |  | string |
| state |  | string |
| zip\_code |  | stirng |
| boundary\_polygon | List of points[[log,lat],[log,lat]] | string |
| land\_type | Choices: RESIDENTIAL, AGRICULTURAL, COMMERCIAL, INDUSTRIAL, TRANSPORT, RECREATIONAL, INVESTMENT, ECOSENSITIVE, FOREST, WET,  RANGE, BARREN | string |

## **Response**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| 201 | “return land details if created” | json |
| 400 | Bad reqest: invalied data | json |
| 500 | Server error | json |

## **Bulk Land Registration for a particular user :**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | /api/cadastre/bulk\_register\_land/ |

## **Request**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| email | User email to register land | String |
| landfile | Exl file | file |

## **Response**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| 201 | Created: data returned | json |
| 403 | File not found/ invalied data | json |
| 401 | Unautherized, invalied tocken | json |
| 422 | Poligon error | Json |

## **Land split Registration:**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | api/cadastre/land\_split/ |

## **Request**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| token | Token must be added in the header | String |
| parent\_user\_email | email | string |
| parent\_land\_number |  | string |
| land\_record\_file | File for new users and splited land info | file |

## **Response**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| 201 | Returns created data | json |
| 404 | Required fields not found | json |
| 422 | Invalied data | json |

## **Change land ownership**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | /api/cadastre/change\_land\_ownership/ |

## **Request**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| token | Token must be added in the header | String |
| owner\_email |  | string |
| new\_owner\_email |  | string |
| land\_number |  | string |

## **Response**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| 201 | Created and returns address details | json |
| 404 | Credentials not provided | json |
| 401 | Unauthorized, token not valid | json |
| 500 | Server error | json |

## **Get land info:**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | /api/cadastre/get\_land/ |

## **Request**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| token | Token must be added in the header | String |
| land\_number | Include in the params, if not found, it returns all land info | file |

## **Response**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| 201 | {"details":"created"} | json |
| 401 | Unauthorized,Invalid token | json |

## **Land\_tax\_rates set:**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **POST** | /api/cadastre/land\_tax\_rates/ |

## **Request**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| token | Token must be added in the header |  |
| land\_type | Choices:RESIDENTIAL, AGRICULTURAL,COMMERCIAL, INDUSTRIAL,TRANSPORT, RECREATIONAL,INVESTMENT, ECOSENSITIVE,FOREST,WET,  RANGE, BARREN | string |
| land\_tax |  | string |

## **Response**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| 201 | Returns created data | json |
| 400 | Bad request(field error) | Json |
| 401 | Unauthorized, Invalid token | json |

## **Land\_tax\_rates get:**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | /api/cadastre/land\_tax\_rates/ |

## **Request**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| token | Token must be added in the header |  |
| land\_type | land\_type in params.  Return given land\_type details  If not provided return all landtype tax details | string |

## **Response**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| 201 | Returns data | json |
| 401 | Unauthorized, Invalid token | json |

## **Generate Tax Invoice:**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **post** | /api/cadastre/generate\_tax\_invoice/ |

## **Request**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| token | Token must be added in the header | String |

## **Response**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| 201 | Generated lax ivoice details | json |
| 404 | User not found |  |

## **Generate Tax Invoice list:**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | /api/cadastre/generate\_tax\_invoice/ |

## **Request**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| token | Token must be added in the header | String |
|  |  |  |

## **Response**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| 200 | Returns all active invoices | json |
| 40 | unautherized | json |

## **Land Filter - time\_snapshort:**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | /api/user/land\_filter/time\_snapshort/ |

## **Request**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| snapshort\_date | Date in params | String |

## **Response**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| 200 | Active lands in the given date | json |
| 400 | Snapshort date not provided | json |

## **Land Filter - time\_snapshort:**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | /api/user/land\_filter/land\_in\_address/ |

## **Request**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| state |  | String |
| district |  | string |
| locality |  | string |
| zipcode |  | string |
| active\_land\_only | active\_land\_only = True by default(retunrs only active lands) | bool |

## **Response**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| 200 | Returns feltered land | json |

## **Land Filter – land type:**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | /api/user/land\_filter/land\_type/ |

## **Request**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| land\_type\_list | Params, a list of land types | String |

## **Response**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| 200 | Return filtered lands | json |

## **Get user land:**

|  |  |
| --- | --- |
| **Method** | **URL** |
| **GET** | /api/users/get\_user\_land/ |

## **Request**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| token | Token must be added in the header | String |

## **Response**

|  |  |  |
| --- | --- | --- |
| **Parameter Name** | **Description** | **Type & Length** |
| 200 | Returned users land data | json |

## 