REST API Endpoints

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| --- | --- | --- | --- | --- | --- |
| **Endpoint** | **Type** | **Role(s)** | **Headers** | **Input form fields** | **Return Data** |
| signin | POST | admin, clerk |  | email, password | {username: …, role: …, token: …} (202) / invalid credentials (401) / Email field required (400) / Email cannot be empty (400) / Password field required (400) / Password cannot be empty (400) |
| signout | POST | admin, clerk | Access-Token |  | ok (200) / access token disabled via signout (401) / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |
| getAccountDetails | POST | admin, clerk | Access-Token |  | User Object (200) / access token disabled via signout (401) / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |
| addAccount | POST | admin | Access-Token | firstname, lastname, email, password, role | email in use (409) / created (201) / Firstname field required (400) / Firstname cannot be empty (400) / Firstname data type is invalid (400) / Lastname field required  (400) / Lastname cannot be empty (400) / Lastname data type is invalid (400) / Email field required (400) / Email cannot be empty (400) / Email data type is invalid (400) / invalid email structure (400) / Password field required (400) / Password cannot be empty (400) / Password data type is invalid (400) / invalid password structure (400) / Role field required (400) / Role cannot be empty (400) / Role data type is invalid (400) / Invalid role (404) / access token disabled via signout (401) / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |
| getAllUsers | POST | admin | Access-Token |  | List of User Objects (200) / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |
| removeAccount | POST | admin | Access-Token | account\_id | deleted (200) / Account does not exist (404) / Account ID field required (400) / Account ID cannot be empty (400) / Account ID data type is invalid (400) / access token disabled via signout (401) / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |
| addCrop | POST | admin | Access-Token | name | ok (201) / Name field required (400) / Name cannot be empty (400) / Name data type is invalid (400) / access token disabled via signout (401) / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |
| deleteCrop | POST | admin | Access-Token | crop\_id | deleted (200) / Crop does not exist (404) / Crop ID field required (400) / Crop ID cannot be empty (400) / Crop ID data type is invalid (400) / access token disabled via signout (401) / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |
| addFarmType | POST | admin | Access-Token | type | ok (201) / Type field required (400) / Type cannot be empty (400) / Type data type is invalid (400) / access token disabled via signout (401) / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |
| deleteFarmType | POST | admin | Access-Token | farm\_type\_id | deleted (201) / Farm Type does not exist (404) / Farm Type ID field required (400) / Farm Type ID cannot be empty (400) / Farm Type ID data type is invalid (400) / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |
| addLocation | POST | admin | Access-Token | name | ok (201) / Name field required (400) / Name cannot be empty (400) / Name data type is invalid (400) / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |
| deleteLocation | POST | admin | Access-Token | location\_id | deleted (200) / Location does not exist (404) / Location ID field required (400) / Location ID cannot be empty (400) / Location ID data type is invalid (400) / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |
| addFarmer | POST | admin, clerk | Access-Token | name, national\_id,  farm\_id,  farm\_type,  crop,  location | registered (201) / Name field required (400) / Name cannot be empty (400) / Name data type is invalid (400) / National ID field required (400) / National ID cannot be empty (400) / National ID data type is invalid (400) / Farm ID field required (400) / Farm ID cannot be empty (400) / Farm ID data type is invalid  (400) / Farm Type field required (400) / Farm Type cannot be empty (400) / Farm Type data type is invalid (400) / Crop field required (400) / Crop cannot be empty (400) / Crop data type is invalid (400) / Location field required (400) / Location cannot be empty (400) / Location data type is invalid (400) / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |
| getFarmers | POST | admin, clerk | Access-Token |  | List of Farmers Objects (200) / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |
| editFarmer | POST | admin, clerk | Access-Token | farmer\_id  , name, national\_id,  farm\_id,  farm\_type,  crop,  location | updated (200) / Farmer does not exist (404) / Name field required (400) / Name cannot be empty (400) / Name data type is invalid (400) / National ID field required (400) / National ID cannot be empty (400) / National ID data type is invalid (400) / Farm ID field required (400) / Farm ID cannot be empty (400) / Farm ID data type is invalid  (400) / Farm Type field required (400) / Farm Type cannot be empty (400) / Farm Type data type is invalid (400) / Crop field required (400) / Crop cannot be empty (400) / Crop data type is invalid (400) / Location field required (400) / Location cannot be empty (400) / Location data type is invalid (400) / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |
| removeFarmer | POST | admin, clerk | Access-Token | farmer\_id | deleted (200) / Farmer does not exist (404) / Farmer ID field required (400) / Farmer ID cannot be empty (400) / Farmer ID data type is invalid (400) / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |
| getFarmTypes | POST | admin, clerk | Access-Token |  | Farm Types Object List (200) / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |
| getCrops | POST | admin, clerk | Access-Token |  | Crop Object List / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |
| getLocations | POST | admin, clerk | Access-Token |  | Location Object List / access token disabled via signout (401) / access token expired (401) / not authorized to access this (401) / invalid token (401) |