# AddPlant

AddPlant builds a new plant based off AddPlantModel. The information is set to the properties in PlantCare and PlantDetails.

Request: POST api/MakePlant

Sample:

{

"Name": "sample string 1",

"ScientificName": "sample string 2",

"DaysToGerminate": 3,

"DaysToHarvest": 4,

"SeedDepth": 5.1,

"IsPerennial": true,

"PlantHeightMax": 7.1,

"PlantWidthMax": 8.1,

"SeedSpacing": 9.1,

"RowSpacing": 10.1,

"IsDeerResistant": true,

"IsToxicToAnimal": true,

"IsToxicToHuman": true,

"IsMedicinal": true,

"Image": "sample string 15",

"ZoneID": 16,

"SeasonID": 17,

"PlantTypeID": 18,

"SunExposureID": 19,

"WaterNeedID": 20,

"RootStructureID": 21,

"Temperature": "sample string 22",

"PlantDetailsDescription": "sample string 23",

"PlantCareDescription": "sample string 24"

}

# UpdatePlant

//UpdatePlant takes in the plantID of the plant you would like to update and the new information you want updated. The values must be within the set

//values of the variables (SeasonID between 1-4, etc.).

Request: api/UpdatePlant?plantID={plantID}

Sample:

{

"Name": "sample string 1",

"ScientificName": "sample string 2",

"ZoneID": 3,

"SeasonID": 4,

"PlantTypeID": 5,

"PlantCareID": 6,

"SunExposureID": 7,

"WaterNeedID": 8,

"Temperature": "sample string 9",

"Description": "sample string 10",

"PlantDetailsID": 11

}

# GetAllPlants

GetAllPlants will return a list of all the plants currently in the database. Each plant will be built out using the BuildPlantDetailsModel, which mainly gets data from the Plants class.

Request: GET api/Plants

# GetPlantByType

GetPlantByType will return a list of plant by the desired plantTypeID. Each plant will be built out using the BuildPlantDetailsModel, which mainly gets data from the Plants class. The value must be within the available range of 1-18.

Request: GET api/Plants?plantTypeID={plantTypeID}

# GetPlantsByWidth

GetPlantsByWidth will return a list of plants within the desired range of PlantWidthMax. The values are in inches. Each plant will be built out using the BuildPlantDetailsModel, which mainly gets data from the Plants class. The definitions for each value are available in Configuration.cs

Request: GET api/Plants/Width?min={min}&max={max}

# Gets Plant By Sun Exposure

GetPlantsBySunExposure will return of plants that have the desired sunExposureID. Each plant will be built out using the BuildPlantDetailsModel, which mainly gets data from the Plants class. The value must be within the available range of 1-4. The definitions for each value are

in Configuration.cs

Request: GET api/Plants/Sun?sunExposureID={sunExposureID}

# Get Plants By Water Need

# GetPlantsByWaterNeed will return of plants that have the desired waterNeedID. The value must be within the available range of 1-4. The desired waterNeedID is matched to the corresponding WaterNeedID in PlantCare. Each plant will be built out using the BuildPlantDetailsModel, which mainly gets data from the Plants class, and a list of PlantDetailsModel objects will be returned to user. The value must be within the available range of 1-18. The definitions for each value are available in Configuration.cs or by viewing in the data table for SunExposure.

Request: GET api/Plants/Water?waterNeedID={waterNeedID}

# Get Plants By Plant Zone

# GetPlantsByPlantZone will return plants that reside in the desired zone. The value must be within 1-13. Each plant will be built out using the BuildPlantDetailsModel, which mainly gets data from the Plants class. The definitions for each value are available in Configuration.cs

Request: GET api/Plants/Zone

Sample:

{

"ZoneID": 1

}

# Get Plants By Bloom Season

GetPlantsByBloomSeason will return plants that grow in the desired seasonID. The value must be within 1-4. Each plant will be built out using the BuildPlantDetailsModel, which mainly gets data from the Plants class. The definitions for each value are available in Configuration.cs

Request: GET api/Plants/Bloom

Sample:

{

"SeasonID": 1

}

# Get Plant By Plant Height

# GetPlantsByHeightMax will return plants that have the desired plantHeightMax. Each plant will be built out using the BuildPlantDetailsModel, which mainly gets data from the Plants class. The definitions for each value are available in Configuration.cs

Request: GET api/Plants/Height?plantHeightMax={plantHeightMax}

# Get All Perrenial Plants

# GetPerrenialPlants will return a list of all the plants that have a true IsPerrenial value. Each plant will be built out using the BuildPlantDetailsModel, which mainly gets data from the PlantDetails class.

Request: GET api/Plants/Feature?selection={selection}

# Get Plants by Plant Zone and Season

GetPlantByZoneAndSeason will return a list of the plants that have the desired zoneID and seasonID. Each plant will be built out using the BuildPlantsModel, which mainly gets data from the Plants class. The value for zoneID must be within 1-13. The value for seasonID must be within 1-4. The definitions for these values are available in Configuration.cs

Request: GET api/Plants/Feature?zoneId={zoneId}&seasonID={seasonID}

# Get Plant By Germination Days

GetPlantsByDaysToGerminate will return a list of plants within the desired range of DaysToGerminate. Each plant will be built out using the BuildPlantsModel, which mainly gets data from the Plants class.

Request: GET api/Plants/Feature?minDays={minDays}&maxDays={maxDays}

# Get Plants By Special Properties

GetPlantsByMedicinal will return a list of plants that are true for either IsMedicinal, IsDeerResistant, IsToxicToAnimal, or IsToxicToHuman. Each plant will be built out using the BuildPlantDetailsModel, which mainly gets data from the PlantDetails class.

Request: GET api/SpecialDetails

# Get Plant Zones

GetPlantZone will return the values for each Plant Zone, including a description of the temperatures for each zone for user knowledge. The information provided are populated using the GetPlantZonesModel

Request: GET api/PlantZones

# Get Root Structures

GetRootStructure will return the values for all possible Root Structures, including a definition of the each one. The information provided are populated using the GetRootStructuresModel

Request: GET api/RootStructure

# Get Sun Exposures

GetSunExposure will return list of all SunExposure options, including a definition of the each one. The information provided are populated using the GetSunExposureModel

Request: GET api/SunExposures

# Get Water Needs

GetWaterNeeds will return a list of all WaterNeeds options, including a definition.The information provided is populated using the GetWaterNeedsModel

Request: GET api/WaterNeeds

# Get Plant Seasons

GetPlantSeasons will return a list of all the PlantSeasons options. The information provided is populated using the GetPlantSeasonsModel.

Request: GET api/PlantSeasons

# GetPlantTypes

GetPlantTypes will return a list of the possible PlantTypes, including additional information such as their IDs, etc. The information provided is populated using the GetPlantTypesModel.

Request: GET api/PlantTypes