#### **CampusCompass**

#### **Team Members:**

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All Date and time stored in Database will be Eastern Standard Time (EST) Zone

#### **Users:**

The Users collection will store all users. Users will be able to login update their details and registered Subjects/Events. Users will role "Admin" will be able to edit Events/Class Details:

```
{
   "_id": {"$oid": "64236d854eebf566c9d8d8da"},
   "Role": ["Admin","Student"],
   "email": "admin1@stevens.edu",
   "name": "Administrator",
   "department": "Administrator",
   "hashedPassword": "$2a$08$XdvNkfdNIL8F8xsuIUeSbNOFgK0M0iV5HOskfVn7.PWncShU.O",
   "events": ["64236f804eebf566c9d9d8de"],
   "lastupdatedDate": {"$date": "2023-03-28T18:54:40.000Z"}
```

Name	Туре	Description
_id	String	Unique Identifier for the class/event
Role	Array	Role assigned to User (Student/Admin/Professor)
email	String	Email id of User (Must contain @stevens.edu as domain)
Name	String	Name of User
hashedPassword	String	Hashed Password
Events	Array	EventID of all user is registered
lastupdatedDate	Date	Date when User record was inserted in Database

## **Locations:**

Locations collection will store all details of Buildings present on campus. Administrators will be able to add/remove/edit this details.

```
"_id": {"$oid": "64236f804eebf566c9d8d8de"},
 "name": "Howe Center",
"desc": "The Howe Center is situated at the top of the hill on Castle Point where the ancestral home of
the Stevens family - Castle Stevens - once stood. Built in 1784 by Colonel John Stevens the Georgian-style
mansion served, at times, as a dormitory, a cafeteria and office space.",
  "type": ["administrative"],
  "operating_hours": ["08:00:00","23:00:00"],
  "rooms": [
      "_id": {$oid": "64236f804eebf566c9d8d8df"},
      "room_number": 901,
      "capacity": 23,
      "floor_number": 9,
      "type": "admin"
   }
 ],
"location": {
    "type": "Polygon",
    "coordinates": [
        [-74.02406347350265,40.74507529485015],
```

```
[-74.02410420475356, 40.74494456827472],
       [-74.02401346813976, 40.7449278345095],
[-74.02411364675287, 40.744645743728256],
[-74.02372204662885, 40.744579260608276],
       [-74.02364398707213, 40.7448639079806],
       [-74.02372401080272, 40.74487927842213],
[-74.02367780014342, 40.74500480329371],
       [-74.02378577842126,40.74502736098907],
       [-74.02377563456794,40.745052124415196],
       [-74.0239502139303,40.74508353526852],
       [-74.02396534673319,40.745058097451846],
       [-74.02406347350265,40.74507529485015]
  ]
},
"entrances": [
    "location": {
       "coordinates": [-74.02407940709723,40.745025667321755],
       "type": "Point"},
     "accessible": "Y"
     "location": {
       "coordinates": [-74.0239075398253,40.74459849354045],
"type": "Point"},
     "accessible": "N"
],
"lastupdatedDate": {"$date": "2023-03-28T18:54:40.000Z"}
```

Name	Туре	Description		
_id	String	Unique Identifier for the building		
Name	String	Name of building		
Desc	String	Description of building		
Туре	Array	Type of building (Residence, Academic, Administrative, Parking)		
Operating_hours	Array	[Start_time (hh:mm:ss), End_time (hh:mm:ss)]		
		Time will be String 24 hours format		
Room	Sub-	Sub-documents of Room Details		
	Document	_id: Unique Identifier for the room		
		Room_number: Number of Room in Building		
		Capacity: Capacity of Room		
		Floor_number: Floor number where building is located.		
		Type: Type of Room		
		Name	Type	Description
		_id	String	Unique Identifier for room
		Room_number	Number	Number of Room in building
		Capacity	Number	Capacity of Room
		Floor_number	Number	Floor Number where building is located
		Туре	String	Type of Room
				(classroom, admin, laboratory)
Location	Object	GeoJSON Object containing co-ordinates of Building		
		Type of object must be polygon as area of building must be highlighted		
Entrances	Sub- Document	Sub-Documents of all entrance Points located within Area		
		Name	Type	Description
		Location	Object	Geojson Object
				Type of this will be Point
		Accessible	String	Flag indicating whether entrance is accessible or not
				(Y/N)
lastupdatedDate	Date	Date when User record was inserted in Database		

# **Department:**

Department Collection will contain details of all department offices present on Campus. Room\_Location field of department will point to room\_id from Locations table

```
{
    "_id": {
        "$oid": "642384e34eebf566c9d8d8e1"
},
    "name": "International Student and Scholar Services (ISSS)",
        "room_id": ["64236f804eebf566c9d8d8df"],
        "desc": "The International Student and Scholar Services (ISSS) office is committed to assisting international students, faculty and scholars in accomplishing their academic, personal and professional objectives through advising, providing immigration services, promoting cross-cultural opportunities and offering specific programs and services to our international population.",
        "lastupdatedDate": {$date": "2023-03-28T18:54:40.000Z"}
}
```

Name	Туре	Description
_id	String	Unique Identifier for the class/event
Name	String	Name of User
Room_id	Array	Array of all Room_id for Rooms within department
Desc	String	Description of Offices
lastupdatedDate	Date	Date when record was inserted in Database

## **Events:**

Events collection will contain details for all events and classes hosted on Campus.

```
{
"_id": {"$oid": "64236f804eebf566c9d9d8de"}
    "name": "CS-546-A: Web Programming I",
    "desc": "Web Programming Section A",
    "type": "class",
    "event_date": ["2023-01-23","2023-04-24","1"],
    "hours": ["18:30:00","21:00:00"],
    "created_by": "64236d854eebf566c9d8d8da",
    "location_id": ["6423a1a04eebf566c9d8d8ec","64236f804eebf566c9d9d8de"],
    "lastupdatedDate": {"$date": "2023-03-28T18:54:40.000Z"}
}
```

Name	Type	Description	
id	String	Unique Identifier for the class/event	
Name	String	Name of Event/Class	
Desc	String	Description of Event/Class	
Туре	String	Type of Event (Event/Class)	
Event_date	Array	Array which will contain data in following format	
_		[Start Date (string),	
		End date (string),	
		Repeating_day_index (number)]	
		For Day_offset below will be values:	
		0- One time event	
		1- Monday	
		2- Tuesday	
		3- Wednesday	
		4- Thursday	
		5- Friday	
		6- Saturday	
		7- Sunday	
Hours	Array	Will contain data as follows:	
		[Start_time (string), End_time (string)]	
Created_By	String	User ID who created the event (Only Admins)	
Location_id	Array	[Building_id (string), Room_id (string)]	
		This Array can only be one element if Event is not in Particular Room	
lastupdatedDate	Date	Date when User record was inserted in Database	

# Feedback:

Feedback collection will contain details for Issues Reported by user. This will be dynamic collection and will be populated if user reports any issue.

```
{
"_id": {"$oid": "64236f804eebf566c9d9d8de"}
    "reportedby": "64236d854eebf566c9d8d8da ",
    "reported_object": "64236f804eebf566c9d9d8de ",
    "desc": "This Event doesnot Exists",
"lastupdatedDate": {"$date": "2023-03-28T18:54:40.000Z"}
}
```

Name	Type	Description
_id	String	Unique Identifier for feedback
Reportedby	String	Id of User who reported the issue
Reported_object	String	ObjectID for which issue has been reported
Desc	String	Description of Issue
lastupdatedDate	Date	Date when User record was inserted in Database