**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 | Type | 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 | Type | Description |
| \_id | String | Unique Identifier for the building |
| Name | String | Name of building |
| Desc | String | Description of building |
| Type | 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-Document | Sub-documents of Room Details  \_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 | | Type | 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.",

"operating\_hours" : ["08:00:00", "16:00:00"],

"operating\_days": [1,2,3,4,5]

"lastupdatedDate": {$date": "2023-03-28T18:54:40.000Z"}

}

|  |  |  |
| --- | --- | --- |
| Name | Type | 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 |
| Operating\_hours | Array | Array of operating times |
| Operating\_day | Array | Array of office operating days |
| 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 |
| Type | 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:   1. One time event 2. Monday 3. Tuesday 4. Wednesday 5. Thursday 6. Friday 7. Saturday 8. 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 |