**Data Plan**

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| --- | --- | --- |
| Method | Purpose | Req | Res |
| POST  /Auth/Login | Log user in | Email/phone number, password  Response code, JWT token |
| POST  /Auth/SignUp | Register an user | Email, phone number, name, address… and registration code (optional) for signing up managers and administrators  Response code |
| GET  /Auth/Logout?sessionID={\_sessionID} | Log user out with specific session ID | Session ID, JWT token  Response code |
| GET  /Action/GetUser?userID={\_userID} | Retrieve all information of a single user as object | User ID, JWT token  Response code, user object |
| POST  /Action/UpdateUser?userID={\_userID} | Update user information | User ID, JWT token, user object  Response code |
| GET  /Action/GetVenueObject?venueID={\_venueID} | Retrieve all information of a single venue as object | Venue ID, JWT token  Response code, venue object |
| POST  /Action/UpdateVenueObject?venueID={\_venueID} | Update venue information | Venue ID, JWT token, venue object  Response code |
| GET  /Action/GetCurrentHotspots | Retrieve current hotspots for rendering on the map and data table | NONE  Response code, an array of hotspot objects |
| POST  /Action/CheckIn?checkInCode={\_checkInCode} | Check in using check-in code | Check-in code, JWT token  Response code |
| GET  /Action/GetUsersDigest | Get an array of simplified user objects for admin to view and manage | JWT token  Response code, array of simplified user objects |
| GET  /Action/GetVenuesDigest | Get an array of simplified venue objects for admin to view and manage | JWT token  Response code, array of simplified venue objects |
| POST  /Action/CreateRegistrationCode?usermode={\_usermode} | Create an one-time-use registration code for creating managers or other admins | Requested usermode, JWT token  Response code, created registration code object |
| GET  /Action/GetRegistrationCodes | Get all active (pending) registration codes | JWT token  Response code, an array of registration codes |
| POST  /Action/UpdateRegistrationCode?objectID={\_objectID} | Update registration code object | Object ID, JWT token  Response code |
| GET  /Action/GetUserCheckInHistory?userID={\_userID} | Get check-in history of an user (simplified user object) | User ID, JWT token  Response code, simplified user object |
| GET  /Action/GetVenueCheckInHistory?venueID={\_venueID} | Get check-in history of a venue (simplified venue object) | Venue ID, JWT token  Response code, simplified venue object |
| GET  /Action/GetUserHotspotTimeline?userID={\_userID} | Get timeline of an user being near hotspots (simplified user object) | User ID, JWT token  Response code, simplified user object |
| GET  /Action/GetVenueHotspotTimeline?venueID={\_venueID} | Get timeline of a venue being a hotspot (simplified venue object) | Venue ID, JWT token  Response code, simplified venue object |

Sample user object

{

"userID" (UID#): "abyz0189",

"email": "user@example.com",

"password": (hashed and salted),

"phoneNumber": 0123456789,

"firstName": "Jon",

"lastName": "Doe",

"address": {

...

},

"gender": "male",

"DOB": "2021-05-19",

"registrationCode": "",

"creationTimestamp": 1621147065,

"usermode": "User",

"associatedVenue": "",

"checkInHistory": [

{

"checkInCode": "abcd1234",

"venueID": " abyz0189",

"timestamp": 1621147075,

"hotspot": false

}

],

"hotspotTimeline": [

],

recentlyBeenToHotspot: false

}

Sample venue object

{

"venueID" (VID#): " abyz0189",

"email": "venue@example.com",

"phoneNumber": 0123456789,

"name": "The University of Adelaide",

"address": {

...

},

"latitude": -77.8419,

"longitude": 116.6863,

"radius": 100.0,

"createdBy": "ABYZ0189",

"creationTimestamp": 1621147065,

"updateTimestamp": 1621147065,

"associatedManager": "ABYZ0189",

"checkInHistory": [

{

"checkInCode": "abcd1234",

"userID": " abyz0189",

"timestamp": 1621147075,

"recentlyBeenToHotspot": false

}

],

"hotspotTimeline": [

],

"isHotspot": false

}

Client/Server Interactions

|  |  |
| --- | --- |
| Page | Interaction |
| ALL | Each page is served up statically by the server |
| Index | Client requests array of current hotspots to be rendered on the map |
| Home | Client requests array of current hotspots, array of check-in history (Manager only) to be rendered on the map |
| Account | Client requests object representing self, object representing associated venue (Manager only) and renders in table(s). |
| Admin | (Admin only) Client requests array of current hotspots, user digest and venue digest. Admin features are also present in this page. |