Implemented API Calls Ready for Testing

Reference for HTTP Status Codes: https://www.restapitutorial.com/httpstatuscodes.html

Will return 200 on successful call.

Will return 400, 401, 404, or 500 depending on error.

**note:** Check the status code to know whether the api call worked or whether there was an error.

**note:** url = http://localhost:8080/

Token is a JWT (JSON web token), which contains userId and level. Currently, the token expires after 24 hours. The token is used for both user authorization and user authentication.

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| **url/registerUser** | Register a new user |
| HTTP Request | POST |
| Required Inputs | Username and password |
| Optional Inputs | Name, email, and city |
| Successful Output | Username and message |
| Error Output | message |

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| **url/loginUser** | Log in an existing user |
| HTTP Request | POST |
| Required Inputs | Username and password |
| Optional Inputs |  |
| Successful Output | token, username, name, email, city, level, and message |
| Error Output | message |
| **IMPORTANT NOTE** | **Level is used to determine user’s permission level** (0 = user, 1 = admin, and 2 = superadmin). Although level is already in token, since frontend doesn’t have access to token’s payload, this is an easy way for frontend to detect the user’s permission level. |

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| **url/listAdmins** | SuperAdmin lists all admins |
| HTTP Request | POST |
| Required Inputs | Token |
| Optional Inputs |  |
| Successful Output | Admins array and message |
| Error Output | message |

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| **url/adminEvents** | SuperAdmin lists all events organized by a particular admin |
| HTTP Request | POST |
| Required Inputs | Token and id (of admin) |
| Optional Inputs |  |
| Successful Output | Events array and message |
| Error Output | message |

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| **url/listUsers** | SuperAdmin lists all users |
| HTTP Request | POST |
| Required Inputs | Token |
| Optional Inputs |  |
| Successful Output | Users array and message |
| Error Output | message |

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| **url/userEvents** | SuperAdmin lists titles of all events this user has attended |
| HTTP Request | POST |
| Required Inputs | Token and id (of user to lookup) |
| Optional Inputs |  |
| Successful Output | Titles array (title of events) and message |
| Error Output | message |

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| **url/approveEvent** | SuperAdmin approves an event created by an Admin |
| HTTP Request | PUT |
| Required Inputs | Token and eventid |
| Optional Inputs |  |
| Successful Output | message |
| Error Output | message |

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| **url/createEvent** | User creates an event and becomes an admin |
| HTTP Request | POST |
| Required Inputs | Token and title |
| Optional Inputs | Description, url, startdate, enddate, address, city, state, and zipcode |
| Successful Output | Token, eventid, title, and message |
| Error Output | message |
| **IMPORTANT NOTE** | **Replace previous token with new token!** (If normal user creates their 1st event, the new token will update their permission level to admin/organizer) |

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| **url/listSelfEvents** | Lists all events this admin has created (can also be used to filter only active events) |
| HTTP Request | POST |
| Required Inputs | Token |
| Optional Inputs |  |
| Successful Output | Events array and message |
| Error Output | message |

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| **url/listOneEvent** | List one event |
| HTTP Request | GET |
| Required Inputs | Eventid |
| Optional Inputs |  |
| Successful Output | Eventid, title, description, url, startdate, enddate, address, city, state, zipcode, organizer, active, and message |
| Error Output | message |

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| **url/eventsByDate** | List all events within startdate and enddate |
| HTTP Request | GET |
| Required Inputs | Startdate and enddate |
| Optional Inputs |  |
| Successful Output | Events array and message |
| Error Output | message |

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| **url/eventsByCity** | List all active events by city |
| HTTP Request | GET |
| Required Inputs | city |
| Optional Inputs |  |
| Successful Output | Events array and message |
| Error Output | message |

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| **url/joinEvent** | User joins an event |
| HTTP Request | POST |
| Required Inputs | Token, eventid, and title |
| Optional Inputs |  |
| Successful Output | message |
| Error Output | message |

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| **url/leaveEvent** | User leaves an event |
| HTTP Request | POST |
| Required Inputs | Token, eventid, and title |
| Optional Inputs |  |
| Successful Output | message |
| Error Output | message |