

## Authentication Related APIs

- Register

**Description:** Create a new account

**Method:** POST

**URL:** "/register"

**Pass in:**

```
{
    Username,
    Email, // should be unique in DB
    Password, // minimum 8 characters
}
```

**Return:**

If email and password meet requirements, send an activation link to the user's email address. Upon clicking that link, the user's account will be created successfully, the user will be directed to the login page instantly.

If any error occurs (e.g. invalid email address, invalid password, server error...), return corresponding [status code](#) and error message in JSON format:

```
{
    errorMessage: "xxxx error"
}
```

This message will be directly used for prompts on the front end.

- Forgot password

**Description:** Reset password with email associated with the user's account

**Method:** POST

**URL:** "/forgotpassword"

**Pass in:**

```
{
    Email
}
```

**Return:**

Send an email with a link for resetting password to user (if the email exists in database). Upon the user clicks the link, he will be landed on a page where he can enter a new password. Here we should figure out how to design the URL directing the user to this page, so that the server knows it is this user changing his password. Also we need to care about the link's expiration time.

We should never confirm or deny the existence of an account with a given email or username. So just return status code 200 (if nothing wrong happens on the server) and a message “If there is an account with that email, an email has been sent to it.”

- Log in with email and password **done**

**Description:** User logs in

**Method:** POST

**URL:** “/login”

**Pass in:**

```
{  
    Email,  
    Password  
}
```

**Return:**

If email and password match, return status code 200 and a JWT token encoding the user's id. This token will be stored in the browser's local storage, and be included in the request header during other actions.

If any error occurs (account does not exist, email and password don't match...), follow error handling procedure.

- Log in with Google
- Log in with Facebook

## User's info Related APIs

- Get user's profile **done**

**Description:** Each user will have a profile stored in the User table. When an account is newly created, the user's avatar is set as a [default image](#). Other fields of the profile will be set as empty strings.

This API is used for getting a user's profile with his user id (encoded in JWT)

**Method:** GET

**URL:** “/profile”

**Pass in:**

JWT in the request's header (“x-auth-token”)

**Return:**

This user's profile (avatar url, bio, facebook, twitter, instagram).

If any error occurs (account does not exist, email and password don't match...), follow error handling procedure.

- Get other user's profile

Description: Each user will have a profile stored in the User table. When an account is newly created, the user's avatar is set as a [default image](#). Other fields of the profile will be set as empty strings.

This API is used for getting a user's profile with his user id (encoded in URL)

**Method:** GET

**URL:** "/profile:{userID}" // feel free to rename this

**Pass in:**

userID

**Return:**

This user's profile (avatar url, bio, facebook, twitter, instagram).

If any error occurs (account does not exist, email and password don't match...), follow error handling procedure.

- Edit user's profile (avatar) **done**

**Description:** Replace a user's avatar with an image he uploaded. This image will be cropped and resized to 96X96 on the front end.

**Method:** POST

**URL:** ~~"/editavatar"~~ "/profile/avatar"

**Pass in:**

JWT in the request's header ("x-auth-token")

image in a FormData object, see [How to upload files to the server using JavaScript](#)

**Return:**

status code 200 + URL to the new avatar if success

If any error occurs, follow error handling procedure.

- Edit user's profile (other fields) **done**

**Description:** Change user's [bio, facebook, twitter, instagram].

**Method:** ~~POST~~ PATCH

**URL:** ~~"/editprofile"~~ "/profile"

**Pass in:**

JWT in the request's header ("x-auth-token")

JSON

```
{
  bio: string,
  facebook: string,
  twitter: string,
  instagram: string
}
```

**Return:**

status code 200 + the updated profile in JSON if success

If any error occurs, follow error handling procedure.

## Events Related APIs

- Create a new event

**Description:** Create a new event (only when a user is logged in).

**Method:** POST

**URL:** "/events"

**Pass in:**

JWT in the request's header ("x-auth-token")

JSON

```
{
  title: string,
  location: string,
  date: string, yyyy-mm-dd,
  startTime: string 24-hour format (should still provide full format, e.g.
2016-09-22T23:21:56.027Z)
  endTime: string 24-hour format (should still provide full format, e.g.
2016-09-22T23:21:56.027Z)
  hostGroup: string,
  eventType: string,
  whoCanCome: string,
  foodType: string,
  foodAmount: string,
  otherInfo: string
}
```

**Return:**

If success, return code 200 + JSON

```
{
  message: "Successfully created a new event."
}
```

If the user is not logged in (i.e. no JWT token in request head), return error message

"Please log in..."

If any other error occurs, follow error handling procedure.

- Delete an existing event

**Description:** Delete an existing event (Only if it's created by the user logged in).

**Method:** DELETE

**URL:** "/events:{eventID}"

**Pass in:**

JWT in the request's header ("x-auth-token")

eventID is encoded in URL

**Return:**

If success, return code 200 + JSON

```
{  
    message: "Successfully deleted the event."  
}
```

If JWT and event's creatorID do not match, return "not authenticated" status code and corresponding message.

If any other error occurs, follow error handling procedure.

- Watch an event

**Description:** Add a "watch" to an event. Each "watch" is identified by eventID and watcherID (which is a userID).

**Method:** POST

**URL:** "/events/watch/{eventID}"

**Pass in:**

JWT in the request's header ("x-auth-token")

eventID is encoded in URL

**Return:**

If success, return code 200

If the user has already watched this event, return a "failed" code

If any other error occurs, follow error handling procedure.

- Unwatch an event

**Description:** Remove a user's "watch" from an event. Each "watch" is identified by eventID and watcherID (which is a userID).

**Method:** DELETE

**URL:** "/events/watch/{eventID}"

**Pass in:**

JWT in the request's header ("x-auth-token")

eventID is encoded in URL

**Return:**

If success, return code 200

If the user has not watched this event, return a "failed" code

If any other error occurs, follow error handling procedure.

- Comment an event

**Description:** Add a comment to an event.

**Method:** POST

**URL:** "/events/comment/{eventID}"

**Pass in:**

JWT in the request's header ("x-auth-token")

eventID is encoded in URL

JSON

```

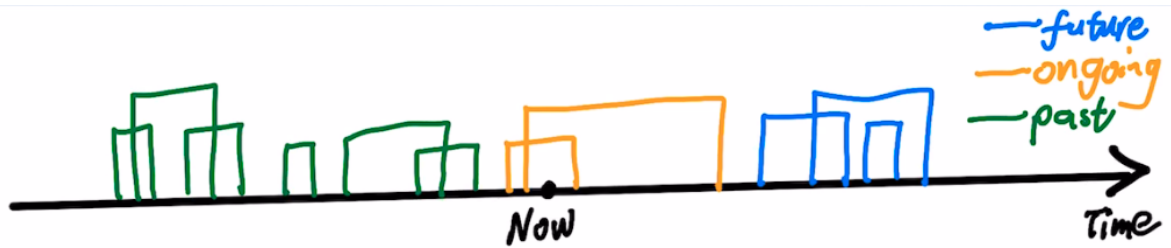
{
    content: String,
    time: a time string generated when the user hits "Post" button, format:
    "YYYY--MM--DD HH:MM". Or, this could be generated by DB.
}

```

**Return:**

If success, return code 200

If any error occurs, follow error handling procedure.



"Get ongoing and future events": fetch all —  
 "Get past events": return to nearest — each time  
 this API is called.

- Get ongoing and future events

**Description:** As depicted above

**Method:** GET

**URL:** "/events"

**Pass in:** Nothing

**Return:**

If success, return code 200, return events along with corresponding comments

JSON

```

{
  events: [
    {
      creatorUsername: string,
      creatorAvatarURL: string,
      eventID: string,
      title: string,
      location: string,
      date: string, yyyy-mm-dd,
      startTime: string 24-hour format,
      endTime: string 24-hour format,
    }
  ]
}

```

```

        hostGroup: string,
        eventType: string,
        whoCanCome: string,
        foodType: string,
        foodAmount: string,
        otherInfo: string,
        numWatches: int,
        comments: [
            {
                commentID: string,
                posterUsername: string,
                posterAvatarURL: string
                content: string,
                postTime: string
            },
            ...
        ]
    },
    ...
]
}

```

If any error occurs, follow error handling procedure.

- **Get past events**

**Description:** As depicted above

**Method:** GET

**URL:** “/pastevents:fetch={num}”

**Pass in:** number of past events already fetched (num)

**Return:** Same as above



## Offers Related APIs

- Create a new offer

**Description:** Create a new offer (only when a user is logged in).

**Method:** POST

**URL:** "/offers"

**Pass in:**

JWT in the request's header ("x-auth-token")

JSON

```
{  
    description: string,  
    location: string,  
    date: string, yyyy-mm-dd,  
    startTime: string 24-hour format,  
    endTime: string 24-hour format,  
    otherInfo: string  
}
```

**Return:**

If success, return code 200 + JSON

```
{  
    message: "Successfully created a new offer."  
}
```

If the user is not logged in (i.e. no JWT token in request head), return error message "Please log in...."

If any other error occurs, follow error handling procedure.

- Delete an existing offer

**Description:** Delete an existing offer (Only if it's created by the user logged in).

**Method:** DELETE

**URL:** "/deleteoffer:{offerID}"

**Pass in:**

JWT in the request's header ("x-auth-token")

offerID is encoded in URL

**Return:**

If success, return code 200 + JSON

```
{  
    message: "Successfully deleted the offer."  
}
```

If JWT and offer's creatorID do not match, return "not authenticated" status code and corresponding message.

If any other error occurs, follow error handling procedure.

- Comment an offer

**Description:** Add a comment to an offer.

**Method:** POST

**URL:** “/offers/comment/{offerID}”

**Pass in:**

JWT in the request's header (“x-auth-token”)

offerID is encoded in URL

JSON

```
{
    content: String,
    time: a time string generated when the user hits “Post” button, format:
    “YYYY--MM--DD HH:MM”. Or, this could be generated by DB.
}
```

**Return:**

If success, return code 200

If any error occurs, follow error handling procedure.

- Get ongoing and future offers

**Description:** Only fetch ongoing and future offers

**Method:** GET

**URL:** “/offers”

**Pass in:** Nothing

**Return:**

If success, return code 200, return offers along with corresponding comments

JSON

```
{
  offers: [
    {
      creatorUsername: string,
      creatorAvatarURL: string,
      offerID: string,
      description: string,
      location: string,
      date: string, yyyy-mm-dd,
      startTime: string 24-hour format,
      endTime: string 24-hour format,
      otherInfo: string,
      comments: [
        {
          commentID: string,
          posterUsername: string,
          posterAvatarURL: string
        }
      ]
    }
  ]
}
```

```
        content: string,  
        postTime: string  
    },  
    ...  
]  
},  
...  
]  
}  
If any error occurs, follow error handling procedure.
```

## Networking Related APIs

- Create a new post (for networking)

**Description:** Create a new post (only when a user is logged in).

**Method:** POST

**URL:** "/posts"

**Pass in:**

JWT in the request's header ("x-auth-token")

JSON

```
{  
    content: String  
}
```

**Return:**

If success, return code 200 + JSON

```
{  
    message: "Successfully created a new post."  
}
```

If any other error occurs, follow error handling procedure.

- Deleting an existing post

**Description:** Delete an existing post (Only if it's created by the user logged in).

**Method:** DELETE

**URL:** "/deletepost:{postID}"

**Pass in:**

JWT in the request's header ("x-auth-token")

postID is encoded in URL

**Return:**

If success, return code 200 + JSON

```
{  
    message: "Successfully deleted the post."  
}
```

If JWT and post's creatorID do not match, return "not authenticated" status code and corresponding message.

If any other error occurs, follow error handling procedure.

- Comment a post

**Description:** Add a comment to a post.

**Method:** POST

**URL:** "/posts/comment/{postID}"

**Pass in:**

JWT in the request's header ("x-auth-token")

postID is encoded in URL

JSON

```
{  
    content: String,  
}
```

**Return:**

If success, return code 200

If any error occurs, follow error handling procedure.

- Get all posts

**Description:** Fetch 10 most recent posts

**Method:** GET

**URL:** "/posts:fetch={num}"

**Pass in:** number of most recent posts already fetched (num)

**Return:**

If success, return code 200, return posts (creator username, avatar URL, content), along with corresponding comments

- Search posts

**Description:** Filter all posts in database with a query string

**Method:** GET

**URL:** "/posts:querystring={querystring}"

**Pass in:** a query string

**Return:**

Return posts if querystring is a substring of their contents / creator usernames.

- Get posts by ID

**Description:** Get posts (with comments) created by a user identified by ID

**Method:** GET

**URL:** "/posts:user={ID}"

**Return:**

If success, return code 200 + JSON

```
{  
    message: "Successfully created a new feedback."  
}
```

If success, return code 200, return posts (creator username, avatar URL, content), along with corresponding comments

# MISC

## Super User

Create a super user when initializing database

This super user has UserID = 0, email for logging in = [brownbytes@brownbytes.bb](mailto:brownbytes@brownbytes.bb), password = csci1320

The super user can delete any event / offer / post, and fetch all feedbacks

- Get all feedbacks

**Description:** get all feedbacks, only callable when super user is logged in

**Method:** GET

**URL:** "/feedbacks:"

**Pass in:** super user's JWT token in request header

**Return:**

If successful, return code 200, return all feedbacks (creator name, email, content).

- Create a new feedback

**Description:** Create new feedback (don't require a user logged in).

**Method:** POST

**URL:** "/feedback"

**Pass in:**

JSON

```
{  
    posterName: String,  
    email: String,  
    feedback: String  
}
```

**Return:**

If success, return code 200 + JSON

```
{  
    message: "Successfully created a new feedback."  
}
```

If any other error occurs, follow error handling procedure.