

Controllers

- `getUser()`
 - Access `UserHandler.getAllUser()`
 - Return a response JSON containing information about a user
- `getAllUsers()`
 - Access `UserHandler.getAllUsers()`
 - Return a response JSON containing a list of users
- `createUser()`
 - Access `UserHandler.create()`
 - Return a response JSON containing newly created user
- `deleteUser()`
 - Access `UserHandler.delete()`
 - Return a response JSON containing status
- `updateUser()`
 - Access `UserHandler.delete()`
 - Return a response JSON containing status

- `getPost()`
 - Access `PostHandler.getPost()`
 - Return a response JSON containing information about a post
- `getAllPosts()`
 - Access `PostHandler.getAllPosts()`
 - Return a response JSON containing a list of posts
- `createPost()`
 - Access `PostHandler.create()`
 - Return a response JSON containing newly created post
- `deletePost()`
 - Access `PostHandler.delete()`
 - Return a response containing status
- `updatePost()`
 - Access `PostHandler.update()`
 - Return a response JSON containing status

- `getComment()`
 - Access `CommentHandler.getComment()`
 - Return a response JSON containing information about a comment
- `getAllComments()`

- Access `CommentHandler.getAllComments()`
 - Return a response JSON containing information about all comments
- `createComment()`
 - Access `CommentHandler.createComment()`
 - Return a response JSON containing newly created content
- `deleteComment()`
 - Access `CommentHandler.deleteComment()`
 - Return a response JSON containing status
- `updateComment()`
 - Access `CommentHandler.updateComment()`
 - Return a response JSON containing status
- `getTag()`
 - Access `TagHandler.getTag()`
 - Return a response JSON containing information about a comment
- `getAllTags()`
 - Access `TagHandler.getAllTags()`
 - Return a response JSON containing information about all comments
- `createTag()`
 - Access `TagHandler.createTag()`
 - Return a response JSON containing newly created content
- `deleteTag()`
 - Access `TagHandler.deleteTag()`
 - Return a response JSON containing status
- `updateTag()`
 - Access `TagHandler.updateTag()`
 - Return a response JSON containing status

Handlers

- `UserHandler`
 - `getAllUsers(): Promise<User[]>`
 - Return a list of all users
 - `getUser(username: string): Promise<User>`
 - Return a single user with given username
 - `getUserBySearch(searchInput: string): Promise<User[]>`
 - Return a list of users with attributes that match searchInput
 - `create(username: string, password: string) Promise<User>`
 - Create a new user with a username and password
 - `updatePassword(username: string, password: string)`
 - Set password of a user with given username
 - `delete(username: string)`
 - Delete a user
- `PostHandler`
 - `getAllPosts(): Promise<Post[]>`
 - Return a list of all Posts
 - `getPostsByUsername(username: string): Promise<Post[]>`
 - Return a list of Posts made by the specified user
 - `getPostById(postId: int): Promise<Post>`
 - Return a post by ID
 - `getPostsByTag(tag: string): Promise<Post[]>`
 - Return a list of all posts with the specified tag
 - `getPostsBySearch(searchInput: string): Promise<Post[]>`
 - Return a list of all posts associated with the search input
 - `create(username: string, postId: number, content: string) Promise<Post>`
 - Create a new post
 - `update(username: string, postId: number, content: string)`
 - Update a post
 - `delete(username: string, postId: number)`
 - Delete a post
- `CommentHandler`
 - `getAllComments(): Promise<Comment[]>`
 - Return a list of all comments
 - `getCommentsByPost(postId: number): Promise<Comment[]>`

- Return a list of all comments in a post
- getCommentsByUser(username: string): Promise<Comment[]>
 - Return a list of all comments made by a user
- getComment(commentId: int): Promise<Comment>
 - Return a comment
- create(username: string, postId: int, commentId: int, content: string): Promise<Comment>
 - Create a new comment
- update(commentId: int, content: string)
 - Update a comment
- delete(commentId: int)
 - Delete a comment
- TagHandler
 - getAllComments(): Promise<Comment[]>
 - Return a list of all comments
 - getCommentsByPost(postId: number): Promise<Comment[]>
 - Return a list of all comments in a post
 - getCommentsByUser(username: string): Promise<Comment[]>
 - Return a list of all comments made by a user
 - getComment(commentId: int): Promise<Comment>
 - Return a comment
 - create(username: string, postId: int, commentId: int, content: string): Promise<Comment>
 - Create a new comment
 - update(commentId: int, content: string)
 - Update a comment
 - delete(commentId: int)
 - Delete a comment

DAO

```
- DefaultEntity {
    id: number;
    deleted: boolean;
    createdAt: Date;
    updatedAt: Date;
}

- User {
    username: string;
    firstName: string;
    lastName: string;
    email: string;
    profilePicture: Image[]
    password: string
    followers: User[];
    following: User[];
    posts: Post[];
    achievements:
    points: number
    upvoted: [];
    playlist: Video[]
}

- Post {
    userId: number
    content: string
    comments: Comment[]
    upvotes: User[]
    downvotes: User[]
    isPost: boolean
}

- Tag {
    tagId: number
    tagName: string
    posts: Post[]
}
```