

# Study Buddy API Protocol

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# User Endpoints

## Create User

| method                                       | POST                      |           |        |                       |   |
|--|---------------------------|-----------|--------|-----------------------|---|
| endpoint                                     | /user                     |           |        |                       |   |
| Request requires Bearer token in Auth Header | no                        |           |        |                       |   |
| Request body                                 | property                  | type      | unique | required              | constraints                                 |
|  | email                     | string    | yes    | yes                   | Valid email address                         |
|  | username                  | string    | no     | yes                   | non-empty                                   |
|  | password                  | string    | no     | yes                   | 8 characters<br>1 digit<br>1 capital letter |
|  | school                    | string    | no     | yes                   |   |
|  | majors                    | String [] | no     | no                    |   |
|  | profile_pic               | blob      | no     | no                    | .gif, .png, jpg, jpeg, .webm<br><= 500k     |
| Response code                                | 201 User Created          |           |        | Email is sent to user |   |
|  | 400 Bad request           |           |        |                       |   |
|  | 500 Internal Server Error |           |        |                       |   |

## Verify Email

| method                                       | GET                       |        |             |
|--|---------------------------|--------|-------------|
| endpoint                                     | /user/verification        |        |             |
| Request requires Bearer token in Auth Header | no                        |        |             |
| Request query string                         | parameters                | type   | constraints |
|  | token                     | string | Valid token |
| Response code                                | 200 OK                    |        |             |
|  | 400 Bad request           |        |             |
|  | 500 Internal Server Error |        |             |

## Log in

| method                                       | POST                      |                             |          |
|--|---------------------------|-----------------------------|----------|
| endpoint                                     | /user/login               |                             |          |
| Request requires Bearer token in Auth Header | no                        |                             |          |
| Request body                                 | property                  | type                        | required |
|  | email                     | string                      | yes      |
|  | password                  | string                      | yes      |
| Response code                                | 200 OK                    | user: User                  |          |
|  | 401 unauthorized          | Email has not been verified |          |
|  | 500 Internal Server Error |                             |          |

## Logout

| method                                       | POST                      |
|--|---------------------------|
| endpoint                                     | /user/logout              |
| Request requires Bearer token in Auth Header | yes                       |
| Response code                                | 200 OK                    |
|  | 401 Unauthorized          |
|  | 500 Internal Server Error |

## Get User

| method                                       | GET                       |             |
|--|---------------------------|-------------|
| endpoint                                     | /user                     |             |
| Request requires Bearer token in Auth Header | yes                       |             |
| Response code                                | 200 OK                    | User object |
|  | 401 Unauthorized          |             |
|  | 500 Internal Server Error |             |

## Send Reset Password Email

| method                                       | Get                       |        |             |
|--|---------------------------|--------|-------------|
| endpoint                                     | /user/passwordResetEmail  |        |             |
| Request requires Bearer token in Auth Header | no                        |        |             |
| Request query string                         | parameters                | value  | constraints |
|  | email                     | string | Valid email |
| Response code                                | 200 OK                    |        |             |
|  | 400 Bad Request           |        |             |
|  | 500 Internal Server Error |        |             |

## Update User

| method                                       | PATCH                     |                            |          |   |
|--|---------------------------|----------------------------|----------|---|
| endpoint                                     | /user                     |                            |          |   |
| Request requires Bearer token in Auth Header | yes                       |                            |          |   |
| Request body                                 | property                  | type                       | required | constraints                                 |
|  | email                     | string                     | no       | Valid email address                         |
|  | username                  | string                     | no       | > 4 characters                              |
|  | password                  | string                     | no       | 8 characters<br>1 digit<br>1 capital letter |
|  | school                    | string                     | no       |   |
|  | majors                    | String []                  | no       |   |
|  | profile_pic               | blob                       | no       | .gif, .png, jpg, jpeg, .webm<br><= 500k     |
| Response code                                | 200 User Created          | User object                |          |   |
|  | 400 Bad Request           | List of invalid properties |          |   |
|  | 401 Unauthorized          |                            |          |   |
|  | 500 Internal Server Error |                            |          |   |

## Delete User

| method                                       | DELETE                    |  |
|--|---------------------------|--|
| endpoint                                     | /user                     |  |
| Request requires Bearer token in Auth Header | yes                       |  |
| Response code                                | 200 OK                    |  |
|  | 401 Unauthorized          |  |
|  | 500 Internal Server Error |  |

# Study Group Endpoints

## Create Study Group

|  |                           |                   |        |          |               |
|--|---------------------------|-------------------|--------|----------|---------------|
| method                                       | POST                      |                   |        |          |               |
| endpoint                                     | /studyGroup               |                   |        |          |               |
| Request requires Bearer Token in Auth Header | yes                       |                   |        |          |               |
| Request Body                                 | Property                  | Type              | Unique | Required | Default Value |
|  | name                      | string            | no     | yes      |               |
|  | owner                     | UserId            | no     | yes      |               |
|  | is_public                 | boolean           | no     | no       | TRUE          |
|  | max_participants          | number            | no     | no       | 6             |
|  | start_date                | Date              | no     | no       |               |
|  | end_date                  | Date              | no     | no       |               |
|  | meeting_days              | enum Day[]        | no     | no       |               |
|  | meeting_time              | enum Day[]        | no     | no       |               |
|  | description               | string            | no     | no       |               |
|  | location                  | string            | no     | no       |               |
|  | school                    | string            | no     | no       |               |
|  | course_number             | string            | no     | no       |               |
| Response Code/ Data                          | 201 Created               | studyGroup object |        |          |               |
|  | 401 Unauthorized          |                   |        |          |               |
|  | 500 Internal Server Error |                   |        |          |               |

## Delete Study Group

|  |                           |                                |
|--|---------------------------|--------------------------------|
| method                                       | DELETE                    |                                |
| endpoint                                     | /studyGroup/{id}          | {id} is a valid study group id |
| Request requires Bearer Token in Auth Header | True                      |                                |
| Response code / data                         | 200 OK                    |                                |
|  | 400 Bad Request           | "Invalid StudyGroupID"         |
|  | 401 Unauthorized          |                                |
|  | 500 Internal Server Error |                                |

## Update Study Group

| METHOD                                       | PATCH                      |                          |        |          |               |
|--|----------------------------|--------------------------|--------|----------|---------------|
| endpoint                                     | /studyGroup/{studyGroupID} |                          |        |          |               |
| Request requires Bearer Token in Auth Header | True                       |                          |        |          |               |
| Request Body                                 | Property                   | Type                     | Unique | Required | Default Value |
|  | name                       | string                   | no     | no       |               |
|  | is_public                  | boolean                  | no     | no       |               |
|  | max_participants           | number                   | no     | no       |               |
|  | start_date                 | Date                     | no     | no       |               |
|  | end_date                   | Date                     | no     | no       |               |
|  | meeting_days               | enum Day[]               | no     | no       |               |
|  | meeting_time               | enum Day[]               | no     | no       |               |
|  | description                | string                   | no     | no       |               |
|  | location                   | string                   | no     | no       |               |
|  | school                     | string                   | no     | no       |               |
|  | course_number              | string                   | no     | no       |               |
| Response Code/<br>Data                       |                            |                          |        |          |               |
|  | 200 OK [update successful] | studyGroup               |        |          |               |
|  | 400 Bad Request            | "invalid study group id" |        |          |               |
|  |                            | "invalid property"       |        |          |               |
|  | 401 Unauthorized           |                          |        |          |               |
|  | 500 Internal Server Error  |                          |        |          |               |



## Search Study Group

|  |                            |                                    |
|--|----------------------------|------------------------------------|
| Method                                       | GET                        |                                    |
| endpoint                                     | /studyGroups               |                                    |
| Request requires Bearer Token in Auth Header | FALSE                      |                                    |
| Request query string                         | Parameter                  | constraint                         |
|  | active = true   false      |                                    |
|  | maxCapacity = Number       |                                    |
|  | sortBy = field-name:asc    |                                    |
|  | search = String            | string is in <i>name</i> field     |
|  | private = true   false     |                                    |
|  | role = owner   participant |                                    |
|  | is_full: true   false      |                                    |
| Response code/data                           | 200 OK                     | {"Study Groups" [], total: Number} |
|  | 400 Bad Request            | "Private must be true or false"    |
|  | 500 Internal Server Error  |                                    |

# Notification Endpoints

## Create Notification

|  |                           |   |          |                          |              |
|--|---------------------------|---|----------|--------------------------|--------------|
| Method                                       | POST                      |   |          |                          |              |
| Endpoint                                     | /user/notification        |   |          |                          |              |
| Request requires Bearer token in Auth Header | true                      |   |          |                          |              |
| Request Body                                 | property                  | type  | required | Default value            | constraints  |
|  | sender                    | UserID                                      | true     |                          | Valid UserId |
|  | receiver                  | UserID                                      | true     |                          | Valid UserId |
|  | subject                   | string                                      | true     |                          | Not empty    |
|  | body                      | string                                      | true     |                          | Not empty    |
|  | isRead                    | bool  | false    | false                    |              |
|  | notification_type         | enum NotificationType                       | false    | *MessageNotificationType |              |
|  | studygroup_id             | StudyGroupId                                | false**  |                          |              |
| Response code / data                         | 201 Created               | notification                                |          |                          |              |
|  | 400 Bad Request           | "One or more invalid properties."           |          |                          |              |
|  |                           | "Notification Type Requires Study Group Id" |          |                          |              |
|  | 401 Unauthorized          |   |          |                          |              |
|  | 500 Internal Server Error |   |          |                          |              |

\*\* Some notifications will require studygroupId

## Delete Notification

|  |                           |                                 |
|--|---------------------------|---------------------------------|
| Method                                       | DELETE                    |                                 |
| Endpoint                                     | /user/notification/{id}   | {id} is a valid notification id |
| Request requires Bearer token in Auth Header | true                      |                                 |
| Response code / data                         | 200 OK                    |                                 |
|  | 401 Unauthorized          |                                 |
|  | 400 Bad Request           | "Invalid notification id"       |
|  | 500 Internal Server Error |                                 |

## Delete All Notifications

|  |                           |  |
|--|---------------------------|--|
| Method                                       | DELETE                    |  |
| Endpoint                                     | /user/notifications/all   |  |
| Request requires Bearer Token in Auth Header | true                      |  |
| Response code / data                         | 200 OK                    |  |
|  | 401 Unauthorized          |  |
|  | 500 Internal Server Error |  |

## Get All Notifications

|  |                           |                 |
|--|---------------------------|-----------------|
| Method                                       | GET                       |                 |
| Endpoint                                     | /user/notifications/all   |                 |
| Request Requires Bearer Token in Auth Header | true                      |                 |
| Response code / data                         | 200 OK                    | notifications[] |
|  | 401 Unauthorized          |                 |
|  | 500 Internal Server Error |                 |

## Update Notification

|  |                           |                           |          |               |             |
|--|---------------------------|---------------------------|----------|---------------|-------------|
| Method                                       | PATCH                     |                           |          |               |             |
| Endpoint                                     | /user/notification/{id}   | {id} is a notification id |          |               |             |
| Request requires Bearer token in Auth Header | true                      |                           |          |               |             |
| Request Body                                 | property                  | type                      | required | default value | constraints |
|  | is_read                   | bool                      | false    | true          |             |
| Response code / data                         | 200 OK                    | notification              |          |               |             |
|  | 401 Unauthorized          |                           |          |               |             |
|  | 400 Bad Request           | "Invalid notification id" |          |               |             |
|  | 500 Internal Server Error |                           |          |               |             |