## GREEN does not require authorization token in header

Service	Endpoints	Description	Request	Response
Predict	POST /predict	Get bounding boxes	Body: multipart/form-data  "width": <number> "image": <file: image="" jpeg=""></file:></number>	{     "boxes": [         {             "x": <number>,             "y": <number>,             "w": <number>,             "h": <number>,             "confidence": <number>,             "class": "hold"   "volume"         },  ],     "width": <number>,     "height: :<number< td=""></number<></number></number></number></number></number></number>
User	POST /user/signup	Sign ups and send verification email	Body: application/ison {     "name": <str>,     "email": <str>,     "password": <str> }</str></str></str>	{     "Message": "Sign up success",     "Destination": "y***@g***.com",     "DeliveryMedium": "EMAIL",     "AttributeName": "email" }
	POST /user/confirm	Confirms sign up with verification	Body: application/ison {     "name": <str>,     "code" <str>}</str></str>	{     "Message" : "Confirmation success" }
	POST /user/login	Returns access token	Body: application/ison {     "email": <str>,     "password": <str>}</str></str>	{     "Message": "Sign in success",     "AccessToken": <str>,     "ExpiresIn": <int:seconds>,     "TokenType": "Bearer",     "RefreshToken": <str>,     "IdToken": <str>, }</str></str></int:seconds></str>
	POST /user/logout	Invalidates access token	Bearer Authorization. IE: Ensure header contains  Bearer <str:accesstoken></str:accesstoken>	{     "Message" : "Sign out success" }
Route	POST /route/new	Create new route by saving to S3 bucket  Only allow if the gym is valid	Bearer Authorization. IE: Ensure header contains  Bearer <str:accesstoken>  Body: multipart/form-data  "country": <str> "expiredTime": <str: isoformat=""> "routeName": <str> "gymLocation": <str: latlong=""> "ownerGrade": <number> "routePhoto": <file: 5mb="" jpg,=""></file:></number></str:></str></str:></str></str:accesstoken>	{     "Message": "Create route success",     "Item": {         "username": <str:routeowner>,         "createdAt": <str>,         "expiredTime": <str>,         "routeName": <str>,         "gymLocation": <str>,         "routeURL": <str: url="">,         "ownerGrade": <number>,         "publicGradesubmissions": [             {                   "userEmail": <number>             },            </number></number></str:></str></str></str></str></str:routeowner>

POST/	route/details	Get photo, votes, grades, comments of one route  (Returns slightly different data depending on if authorization header is provided)	Body: application/json {     "username": <str:routeowner>,     "createdAt": <str>} # Acts as route identifier  Optional  Bearer Authorization. IE: Ensure header contains  Bearer <str:accesstoken> Including this will check if the user has voted, graded, reported the route. The default values are false.</str:accesstoken></str></str:routeowner>	{     "Message": "Get route details success",     "Item": {         "username": <str:routeowner>,         "createdAt": <str>,         "expiredTime": <str>,         "routeName": <str>,         "gymLocation": <str>,         "routeURL": <str>,         "ownerGrade": <number>,         "publicGrade": <number>,         "vote": <number>,         "comments": [],         "hasVoted": <boolean>,         "hasGraded": <boolean>,         "hasGraded": <number>         "graded": <number> }</number></number></boolean></boolean></number></number></number></str></str></str></str></str></str:routeowner>
POST /route/d	letails/vote	Upvote route	Bearer Authorization. IE: Ensure header contains  Bearer <str:accesstoken>  Body: application/json {     "username": <str:routeowner>,     "createdAt": <str>}</str></str:routeowner></str:accesstoken>	{     "Message": "Upvote route success" }
POST /route/d	letails/grade	Assign grade to route (Handles differently for owner and public in backend)	Bearer Authorization. IE: Ensure header contains  Bearer <str:accesstoken>  Body: application/json {     "username": <str:routeowner>,     "createdAt": <str>,     "grade": <number> }</number></str></str:routeowner></str:accesstoken>	{     "Message": "Grade route success",     "Item": {          "publicGrade": <number>,          "ownerGrade": <number> } }</number></number>
/route/details/comment  Bearer <st "created<="" "userna"="" app="" body:="" td="" {=""><td>Bearer Authorization. IE: Ensure header contains  Bearer <str::accesstoken>  Body: application/json {     "username": <str::routeowner>,     "createdAt": <str>.     "comment": <str: 150="" chars="" more="" not="" than=""> }</str:></str></str::routeowner></str::accesstoken></td><td>{     "Message": "Comment route success",     "Item": {         "username": <str>,         "timestamp": <number: unix="">,         "comment": <str>     } }</str></number:></str></td></st>	Bearer Authorization. IE: Ensure header contains  Bearer <str::accesstoken>  Body: application/json {     "username": <str::routeowner>,     "createdAt": <str>.     "comment": <str: 150="" chars="" more="" not="" than=""> }</str:></str></str::routeowner></str::accesstoken>	{     "Message": "Comment route success",     "Item": {         "username": <str>,         "timestamp": <number: unix="">,         "comment": <str>     } }</str></number:></str>		
DELET /route/d	E letails/comment	Delete the comment if you are poster or route owner	Bearer Authorization. IE: Ensure header contains  Bearer <str:accesstoken>  Body: application/json {     "username": <str:routeowner>,     "createdAt": <str>,     "timestamp": <number: unix=""> }</number:></str></str:routeowner></str:accesstoken>	{     "Message": "Delete comment success" }
POST /route/d	letails/report	Report route	Bearer Authorization. IE: Ensure header contains  Bearer <str:accesstoken></str:accesstoken>	{     "Message": "Report route success" }

			Body: application/json {     "username": <str:routeowner>,     "createdAt": <str> }</str></str:routeowner>	
	GET /route/all	Get routes by gyms  Note: Frontend call another API to determine proximity	Url parameter of "gymLocation"	{     "Message": "Query routes by gym     success",     "Items": [
	GET /route/gym/all	Get gyms	If no parameter, returns all the gyms  Or  If url parameter of "country" exists, returns the gyms in the country (If there are 100+ gyms this would be preferred)	{     "Message": "Scan all gyms success",     "Items": [
	DELETE /route	Delete a particular route if you are route owner	Bearer Authorization. IE: Ensure header contains  Bearer <str:accesstoken>  Body: application/json {     "createdAt": <str: isostring=""> }</str:></str:accesstoken>	{     "Message": "Delete route success" }

## Database supported features

- Get all gyms and their locations
- Search routes by gym
- Add route by gym
- Upvote
- Report
- Upgrade / Downgrade
- View Owner Grade & Public Grade
- View votes
- View route photo
- Search routes by a single username
- Batch removal of outdated routes
- ADMIN: Add gym
- ADMIN: Delete route
- ADMIN: Delete gym

(Trying to do Single Table style which is recommended by AWS)

Database	Fields	Index
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Route	username (PK)	Global Secondary Index gymLocation (PK) createdAt (SK) routeName (projected) publicGrade (projected) username (projected) vote (projected) commentCount (projected) routeURL (projected)
Gym	country (PK)	