

**GREEN does not require authorization token in header**

Service	Endpoints	Description	Request	Response
Predict	POST /predict	Get bounding boxes	Body: <u>multipart/form-data</u> "width": <number> "image": <file: image/jpeg>	{ "boxes": [ { "x": <number>, "y": <number>, "w": <number>, "h": <number>, "confidence": <number>, "class": "hold"   "volume" }, .... ], "width": <number>, "height": <number> }
User	POST /user/signup	Sign ups and send verification email	Body: { "name": <str>, "email": <str>, "password": <str> }	{ "Message": "Sign up success", "Destination": "y***@g***.com", "DeliveryMedium": "EMAIL", "AttributeName": "email" }
	POST /user/confirm	Confirms sign up with verification	Body: { "name": <str>, "code" <str> }	{ "Message": "Confirmation success" }
	POST /user/login	Returns access token	Body: { "email": <str>, "password": <str> }	{ "Message": "Sign in success", "AccessToken": <str>, "ExpiresIn": <int:seconds>, "TokenType": "Bearer", "RefreshToken": <str>, "IdToken": <str>, }
	POST /user/logout	Invalidates access token	<b>Bearer Authorization. IE: Ensure header contains</b>  Bearer <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	<b>Bearer Authorization. IE: Ensure header contains</b>  Bearer <str:accessToken>  Body: <u>multipart/form-data</u> "country": <str> "expiredTime": <str: ISOFormat> "routeName": <str> "gymLocation": <str: LatLong> "ownerGrade": <number> "routePhoto": <file: JPG, 5MB>	{ "Message": "Create route success", "Item": { "username": <str:routeowner>, "createdAt": <str>, "expiredTime": <str>, "routeName": <str>, "gymLocation": <str>, "routeURL": <str: url>, "ownerGrade": <number>, "publicGrade": <number>, "publicGradeSubmissions": [ { "userEmail": <number> }, ... ], "vote": <number>, "upVotes": [], "reports": [], "commentCount": 0, "comments": [] } }

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

			Body: { "username": <str:routeowner>, "createdAt": <str> }	
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": [ { "routeName": <str>, "publicGrade": <number>, "routeURL": <str:url>, "commentCount": 0, "username": <str>, "gymLocation": <str>, "createdAt": <str>, "vote": <number> } ] }	
GET /route/gym/all	Get gyms	If no parameter, returns all the gyms  <u>Or</u>  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": [ { "country": "Singapore", "gymLocation": <str>, "gymName": <str> } ] }	
DELETE /route	Delete a particular route if you are route owner	<b>Bearer Authorization. IE: Ensure header contains</b>  Bearer <str:accessToken>  Body: { "createdAt": <str: ISOString> }	{ "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 ( <b>PK</b> ) <cognito jwt token username> createdAt ( <b>SK</b> ) yyyy-mm-ddThh:mm:ssZ expiredTime <time to live datetime> routeName <str> gymLocation locational_string routeURL s3bucketlink -> /<emailHash>/<createdAt>/ ownerGrade <integer> publicGrade (Includes ownerGrade) <integer> publicGradeSubmissions [{ email: <str>, grade:<integer> }, { }, ...] vote <integer> upVotes [list of emails] reports [list of emails] commentCount <integer> comments [{ username: <integer>, comment: <str>, timestamp: <number> }, { }, ...]	Global Secondary Index gymLocation ( <b>PK</b> ) createdAt ( <b>SK</b> ) routeName (projected) publicGrade (projected) username (projected) vote (projected) commentCount (projected) routeURL (projected)
Gym	country (PK) <str> (Ensure only alphanumeric and space) gymLocation (SK) <str:latLong> (Google Maps right click) gymName <str>	