

# TAXLATOR BACKEND API DOCUMENTATION

This document contains all available backend API endpoints for the Taxlator project.

## BASE URL

<https://gov-taxlator-api.onrender.com>

## API DOCUMENTATION

[https://gov-taxlator-api.onrender.com/docs/API\\_DOCUMENTATION.pdf](https://gov-taxlator-api.onrender.com/docs/API_DOCUMENTATION.pdf)

## HEALTH CHECK

Used to confirm that the backend service is running.

Method	Endpoint	Description
GET	/health	Confirms the API is live

## AUTHENTICATION ENDPOINTS

### SIGNUP

Register a new user. A 6-digit verification code is sent to the user's email. User must verify their email before calculation records can be saved.

Method	Endpoint	Description
POST	/api/auth/signup	Create a new user

### VERIFY EMAIL

Verify a user's email using the code sent at signup.

Method	Endpoint	Description
POST	/api/auth/verifyEmail	Verify email with code

### SEND VERIFICATION CODE

Send a new verification code if the previous code expired or was lost.

Method	Endpoint	Description
POST	/api/auth/sendVerificationCode	Send verification code

### SIGN-IN

Authenticate an existing verified user and return a JWT. Only verified users can sign-in successfully.

Method	Endpoint	Description
POST	/api/auth/signin	Signin an existing user

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### CHANGE PASSWORD

Allows a logged-in user to change their password. Requires JWT authentication.

Method	Endpoint	Description
POST	/api/auth/changePassword	Change password

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### FORGOT PASSWORD

Sends a password reset code to the user's email.

Method	Endpoint	Description
POST	/api/auth/forgotPassword	forgot password

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### RESET PASSWORD

Resets a user's password using the reset code sent to email.

Method	Endpoint	Description
POST	/api/auth/resetPassword	reset password

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### SIGN-OUT

Clear authentication cookie and logout.

Method	Endpoint	Description
GET/POST	/api/auth/signout	Signout user

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## CALCULATION ENDPOINTS 💰

Both Tax and VAT endpoints are dual-purpose:

1. Public users can calculate without signing up (records will not be saved).
2. Verified users can calculate and their results will be saved to their history.

### TAX

Method	Endpoint	Description	Note
POST	/api/tax/calculate	Calculator endpoint	if user is valid, record is saved

**VAT**

Method	Endpoint	Description	Note
POST	/api/vat/calculate	Calculator endpoint	if user is valid, record is saved

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**STATUS CODES ⚠**

- 200 – Successs
- 201 – Successs / new resourse created
- 400 – Bad request / validation error
- 401 – Unauthorized / invalid token
- 403 – Forbidden / email not verified
- 404 – Resource not found
- 500 – Server error