User Guide: Testing the Raamatud API Project on Windows 11

1. Install Node.js

Go to https://nodejs.org/ and download the LTS version.

Install it with default options.

Open Command Prompt and verify installation with:

    node -v

    npm -v

2. Save the project files

Save them to a known location, e.g.:

    C:\Users\YourName\Documents\raamatud_api

3. Open PowerShell or Command Prompt

Navigate to the extracted project folder:

    cd "C:\Users\YourName\Documents\raamatud_api"

4. Fix PowerShell script policy if needed

If you get a script execution error (e.g. npm.ps1 cannot be loaded), run:

    Set-ExecutionPolicy RemoteSigned -Scope CurrentUser

Confirm with Y and Enter.

5. Install required packages

Run the following command to install dependencies:

    npm install express body-parser jsonwebtoken swagger-ui-express yamljs

6. Run the server

Start the project server with:

    node server.js

You should see: Server töötab: http://localhost:3000

7. Test the API

Visit Swagger UI in your browser:

    http://localhost:3000/docs

Use the "Try it out" button on endpoints like /login, /books.

8. Login as Admin or User

To login, use:

  Username: admin

Password: adminpass

Or:

Username: user

Password: userpass

Copy the returned token and use it in 'Authorize' section in Swagger.

9. Common Actions in Swagger

- View books: GET /books

- Update book: PUT /books/1 (send full object)

- Comment as User: POST /books/1/comments

- Only Admin can add/delete books (if supported)

- Only User can comment (unless changed in code)

10. Optional: Allow Node.js Through Firewall

When prompted by Windows Security, allow Node.js access only on:

- Private networks (allow)

- Public networks (do not allow)

11. Optional: Upload to GitHub

- Create a new repository on https://github.com

- Run the following commands:

git init

git add .

git commit -m "Initial commit"

git branch -M main

git remote add origin https://github.com/YOUR_USERNAME/raamatud-api-jwt.git

git push -u origin main