

Modules

app

Main application entry point for the Cost Manager API. Sets up Express, connects to MongoDB, mounts routers, and starts the server.

db

Database connection setup using Mongoose.

controllers/aboutController

Controller for the GET /api/about endpoint. Returns a JSON array of team members' first and last names.

controllers/costController

Controller functions for handling cost-related API endpoints.

controllers/userController

Controller for the GET /api/users/:id endpoint. Retrieves a single user's details and computes their total cost.

models/Cost

Mongoose model for tracking individual cost entries.

models/User

Mongoose model for the User collection.

routes/about

Express router for the /api/about endpoint.

routes/costs

Express router for cost-related API endpoints.

routes/users

Express router for user-related API endpoints.

app

Main application entry point for the Cost Manager API. Sets up Express, connects to MongoDB, mounts routers, and starts the server.

db

Database connection setup using Mongoose.

db~connectDB() ➡ Promise.<void>

Connects the application to MongoDB Atlas using Mongoose. Reads connection URI from process.env.MONGO_URI. On failure, logs the error and exits process.

Kind: inner method of db

Throws:

- Error If unable to connect to MongoDB.

controllers/aboutController

Controller for the GET /api/about endpoint. Returns a JSON array of team members' first and last names.

controllers/aboutController~aboutController(req, res) ⇒ void

GET /api/aboutReturns a JSON array of team members' first and last names.Example response (status 200):[{ first_name: "Israel", last_name: "Peled" }]

Kind: inner method of [controllers/aboutController](#)

Param	Type	Description
req	express.Request	Express request object.
res	express.Response	Express response object; sends JSON array.

controllers/costController

Controller functions for handling cost-related API endpoints.

- [controllers/costController](#)
 - [~addCost\(req, res\) ⇒ Promise.<void>](#)
 - [~getMonthlyReport\(req, res\) ⇒ Promise.<void>](#)

controllers/costController~addCost(req, res) ⇒ Promise.<void>

POST /api/addAdds a new cost item.Body (req.body) must include: - description {string} - category {string} (one of "food", "health", "housing", "sport", "education") - userid {number} - sum {number} - date {string|Date} (optional)Responses: • 200: Returns saved cost JSON. • 400: Missing required fields. • 500: Database error.

Kind: inner method of [controllers/costController](#)

Param	Type
req	express.Request
res	express.Response

controllers/costController~getMonthlyReport(req, res) ⇒ Promise.<void>

GET /api/reportReturns monthly cost report for a user.Query (req.query) must include: - id {string|number} - year {string|number} - month {string|number}Success (200) returns JSON:{ userid: Number, year: Number, month: Number, costs: [{ food: [{ sum:Number, description:String, day:Number }] }, { health: [{ sum:Number, description:String, day:Number }] }, { housing: [] }, { sport: [{ sum:Number, description:String, day:Number }] }, { education:[{ sum:Number, description:String, day:Number }] }]}Responses: • 200: Report JSON. • 400: Missing id/year/month. • 500: Database error.

Kind: inner method of [controllers/costController](#)

Param	Type
req	express.Request
res	express.Response

controllers/userController

Controller for the GET /api/users/id endpoint. Retrieves a single user's details and computes their total cost.

controllers/userController~getUser(req, res) ⇒ Promise.<void>

Retrieves details of a single user by ID and calculates the total cost.

Kind: inner method of `controllers/userController`

Status: 200 - OK with JSON of user's first_name, last_name, id, and total cost.

Status: 404 - Not Found if user with given ID does not exist.

Status: 500 - Server Error if aggregation or database query fails.

Param	Type	Description
req	<code>express.Request</code>	Express request object; expects req.params.id to be the user ID (string or number).
res	<code>express.Response</code>	Express response object; returns JSON object: { first_name: string, last_name: string, id: number, total: number }

models/Cost

Mongoose model for tracking individual cost entries.

- `models/Cost`
 - `~costSchema` : `mongoose.Schema.<Cost>`
 - `~Cost` : `Object`

models/Cost~costSchema : mongoose.Schema.<Cost>

Mongoose schema for Cost collection.

Kind: inner constant of `models/Cost`

models/Cost~Cost : Object

Kind: inner typedef of `models/Cost`

Properties

Name	Type	Description
description	string	Description of the cost item (required).
category	string	Category of the cost; one of "food", "health", "housing", "sport", "education" (required).
userid	number	ID of the user who incurred the cost (required).
sum	number	Amount of the cost (required, min: 0).
date	Date	Date when the cost was created; defaults to now.

models/User

Mongoose model for the User collection.

- models/User
 - ~UserSchema : `mongoose.Schema.<User>`
 - ~User : `Object`

models/User~UserSchema : `mongoose.Schema.<User>`

Mongoose schema for User collection.

Kind: inner constant of models/User

models/User~User : `Object`

Kind: inner typedef of models/User

Properties

Name	Type	Description
id	number	Unique user ID (required).
first_name	string	First name (required).
last_name	string	Last name (required).
birthday	Date	Birth date (required).
marital_status	string	One of “single”, “married”, “divorced”, “widowed” (required).

routes/about

Express router for the `/api/about` endpoint.

routes/about~router : `express.Router`

Express router instance.

Kind: inner constant of routes/about

routes/costs

Express router for cost-related API endpoints.

routes/costs~router : `express.Router`

Express Router for `/api/add` and `/api/report`.

Kind: inner constant of routes/costs

routes/users

Express router for user-related API endpoints.

routes/users~router : `express.Router`

Express Router for `/api/users/:id`.

Kind: inner constant of routes/users

