```
const express = require('express');
const router = express.Router();
const Cost = require('../models/costs');
const User = require('../models/users');
 * @route POST /api/add
 * @desc Adds a new cost entry for a user
 * @access Public
 */
router.post('/add', async (req, res) => {
    try {
        const { userid, category, description, sum, date } = req.body;
        // Check if all required fields are provided
        if (!userid || !category || !description || !sum) {
            return res.status(400).json({ error: 'Missing required fields: userid, category, description, sum'
        }
        // If date is not provided, use the current date and time
        const costDate = date ? new Date(date) : new Date();
        // Create a new cost item
        const cost = new Cost({
            userid,
            category,
            description,
            sum,
            date: costDate
        });
        // Save the new cost item to the database
        const savedCost = await cost.save();
        // Respond with the newly added cost item
        res.status(201).json(savedCost);
    } catch (error) {
        // Catch any errors and return them
        res.status(500).json({ error: error.message });
    }
});
 * @route GET /api/report
 * @desc Fetches monthly report for a specific user
 * @access Public
 */
router.get('/report', async (req, res) => {
    const { id: userid, year, month } = req.query;
    // Validate input parameters
    if (!userid || !year || !month) {
        return res.status(400).json({ error: 'Missing required query parameters: id, year, month' });
    }
```

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```
const startOfMonth = new Date(year, month - 1, 1); // Start of month
        const endOfMonth = new Date(year, month, 0);
                                                         // End of month
       // Fetch the costs within the month and year range
        const costs = await Cost.find({
            userid: userid,
            date: { $gte: startOfMonth, $lte: endOfMonth }
       });
        if (costs.length === 0) {
            return res.status(404).json({ error: 'No costs found for this user in the specified month and year'
       }
        // Prepare the response structure
        const categories = {
            food: [],
            education: [],
            health: [],
            housing: []
       };
        // Group costs by category
        costs.forEach(cost => {
            const { category, sum, description, date } = cost;
            const day = new Date(date).getDate(); // Extract the day
            if (categories[category]) {
                categories[category].push({ sum, description, day });
            }
       });
       // Format the final report
        const report = {
           userid: userid,
            year: parseInt(year),
            month: parseInt(month),
            costs: Object.keys(categories).map(category => ({ [category]: categories[category] }))
       };
       res.json(report);
   } catch (error) {
        res.status(500).json({ error: error.message });
    }
});
/**
 * @route GET /api/users/:id
 * @desc Retrieves user details and their total spending
 * @access Public
 */
router.get('/users/:id', async (req, res) => {
   const userId = req.params.id;
   try {
        const user = await User.findOne({ id: userId });
       if (!user) {
            return res.status(404).json({ error: 'User not found' });
       }
```

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116
             // Calculate total costs
117
             const totalCosts = await Cost.aggregate([
118
                  { $match: { userid: userId } },
119
                  { $group: { _id: null, total: { $sum: '$sum' } } },
120
             ]);
121
122
             res.json({
123
                  first_name: user.first_name,
124
                  last_name: user.last_name,
125
                  id: user.id,
126
                  marital_status: user.marital_status,
127
                  total: totalCosts[0]?.total || 0,
128
             });
129
         } catch (error) {
130
             res.status(500).json({ error: error.message });
131
         }
132
     });
133
134
135
      * @route GET /api/about
136
      ^{st} @desc Provides information about the development team
137
      * @access Public
138
      */
139
     router.get('/about', async (req, res) => {
140
         const team = [
141
             { first_name: 'Omri', last_name: 'Shmuel'},
142
             { first_name: 'Omer', last_name: 'Tzaadi' },
143
             { first_name: 'Astewuol', last_name: 'Tsagaow' },
144
         ];
145
146
         res.json(team);
147
     });
148
149
     module.exports = router;
```

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