Team manager:

Eden Laor

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```
// Developers: Eden Laor - 208939629, Yarin Yahav - 207952516
// app.js
const express = require('express');
const mongoose = require('mongoose');
const app = express();
const port = process.env.PORT || 3000;
const addCalories = require('./addcalories');
const about = require("./about");
const report = require("./report");
// Database Connection
const connectDB = require('./DB');
connectDB();
// Middleware to parse JSON bodies
app.use(express.json());
app.use('/addcalories', addCalories);
app.use("/about", about);
app.use("/report", report);
// Default route
app.get('/', (req, res) =>
{
   const htmlContent = `
     <h3>Welcome to our final Final Project in NodeJS</h3>
     to use the API, use the following in the
<strong>URL</strong>:
     <111>
       /addcalories
/report?<strong>user id</strong>=XXX&<strong>year</strong>=XXXX&<st
rong>month</strong>=XX
       /about
     * ;
   res.send(htmlContent);
});
app.listen(port, () => console.log(`app listening on port ${port}!`));
```

```
// Developers: Eden Laor - 208939629, Yarin Yahav - 207952516
// addcalories.js
const express = require('express');
const router = express.Router();
const mongoose = require('mongoose');
// Import the CalorieItem model
const calorieItem = require('./models/CalorieItem');
// Middleware to parse JSON bodies
router.use(express.json());
// POST request to add a new calorie consumption item
router.post('/', async (req, res) =>
    const { user_id, year, month, day, description, category, amount }
= req.body;
    // Check if all required parameters are provided
    if (!user id || !year || !month || !day || !description ||
!category || !amount)
       return res.status(400).json({ error: "All parameters are required"
});
    }
    try
    {
        // Check if the user exists in the database
        const user = await findUserById(user id);
        if (!user)
        {
            return res.status(404).json({ error: "User not found" });
        }
        // Create a new calorieItem object (based on the model)
        const newCalorieItem = new calorieItem({
            user id: parseInt(user id),
            year: parseInt(year),
            month: parseInt(month),
```

```
day: parseInt(day),
            description,
            category,
            amount: parseInt(amount)
        });
        // Save the new calorie consumption item to the database
        await newCalorieItem.save();
        res.json({ message: "Calorie consumption item added
successfully" });
    } catch (error)
    {
        console.error(error);
        res.status(500).json({ error: "Internal server error" });
});
// Function to find user by ID
function findUserById(user id)
{
    return new Promise((resolve, reject) =>
    {
        mongoose.connection.collection('users').findOne({ id:
parseInt(user id) }, (err, user) =>
            if (err)
                reject(err);
            } else
                resolve (user);
        });
   });
}
module.exports = router;
```

```
// Developers: Eden Laor - 208939629, Yarin Yahav - 207952516
  // about.js
  const express = require('express');
  const router = express.Router();
  // Array of developer objects
  const developers = [
                                        firstname: "Eden",
                                        lastname: "Laor",
                                        id: 208939629,
                                        email: "edenlaor1@hotmail.com"
                       },
                                      firstname: "Yarin",
                                       lastname: "Yahav",
                                      id: 207952516,
                                        email: "yarinyahav0@gmail.com"
                    }
  ];
  // GET request to get developers' information % \left( 1\right) =\left( 1\right) \left( 1\right) 
  router.get('/', (req, res) =>
             res.json(developers);
  });
module.exports = router;
```

```
// Developers: Eden Laor - 208939629, Yarin Yahav - 207952516
// report.js
const express = require('express');
const router = express.Router();
const CalorieItem = require('./models/CalorieItem');
// GET request to get detailed report
router.get('/', async (req, res) =>
{
 const { user id, month, year } = req.query;
 // Check if all required parameters are provided
 if (!user id || !month || !year)
    return res.status(400).json({ error: "User ID, month, and year are
required" });
  }
 try
   // Find all calorie items for the specified user, month, and year
    const calorieItems = await CalorieItem.find({
     user id: parseInt(user id),
     month: parseInt(month),
     year: parseInt(year)
    });
    // Create the report object
    const report = {
     breakfast: [],
     lunch: [],
     dinner: [],
      other: []
    };
    // Populate the report with the fetched calorie items
    calorieItems.forEach(item =>
    {
     switch (item.category)
```

```
case "breakfast":
          report.breakfast.push({
            day: item.day,
            description: item.description,
            amount: item.amount
          });
          break;
        case "lunch":
          report.lunch.push({
            day: item.day,
            description: item.description,
            amount: item.amount
          });
          break;
        case "dinner":
          report.dinner.push({
            day: item.day,
            description: item.description,
            amount: item.amount
          });
          break;
        case "other":
          report.other.push({
            day: item.day,
            description: item.description,
            amount: item.amount
          });
          break;
        default:
          break;
      }
    });
   res.json(report);
  } catch (error)
    console.error(error);
    res.status(500).json({ error: "Internal server error" });
});
module.exports = router;
```

```
// Developers: Eden Laor - 208939629, Yarin Yahav - 207952516
// DB.js
const mongoose = require('mongoose');
// MongoDB connection URI
const uri =
'mongodb+srv://Eden:zCxId3WMmcExfBpV@cluster0.21yxdtj.mongodb.net/Clust
er?retryWrites=true&w=majority';
const connectDB = async () =>
 try
   await mongoose.connect(uri);
   console.log('MongoDB connected successfully');
  } catch (error) // any error that occured while attempting to connect
to the database
   console.error('MongoDB connection error:', error);
};
module.exports = connectDB;
```

```
// Developers: Eden Laor - 208939629, Yarin Yahav - 207952516
// models/CalorieItem.js
const mongoose = require('mongoose');
// the schema for an item to add using addCalories
const calorieItemSchema = new mongoose.Schema({
    user id: {
       type: Number,
       required: true
    },
    year: {
       type: Number,
       required: true
    },
   month: {
       type: Number,
       required: true
    },
    day: {
       type: Number,
       required: true
    },
    description: {
       type: String,
       required: true
    },
    category: {
       type: String,
        enum: ['breakfast', 'lunch', 'dinner', 'other'],
        required: true
    },
    amount: {
       type: Number,
       required: true
    }
});
const CalorieItem = mongoose.model('CalorieItem', calorieItemSchema,
'calories');
```

```
module.exports = CalorieItem;
// Developers: Eden Laor - 208939629, Yarin Yahav - 207952516
// models/User.js

const mongoose = require('mongoose');

//Schema for creating a user in the database
const userSchema = new mongoose.Schema({
    id: { type: Number, required: true, unique: true },
    first_name: { type: String, required: true },
    last_name: { type: String, required: true },
    birthday: { type: Date, required: true }
});

const User = mongoose.model('User', userSchema);

module.exports = User;
```