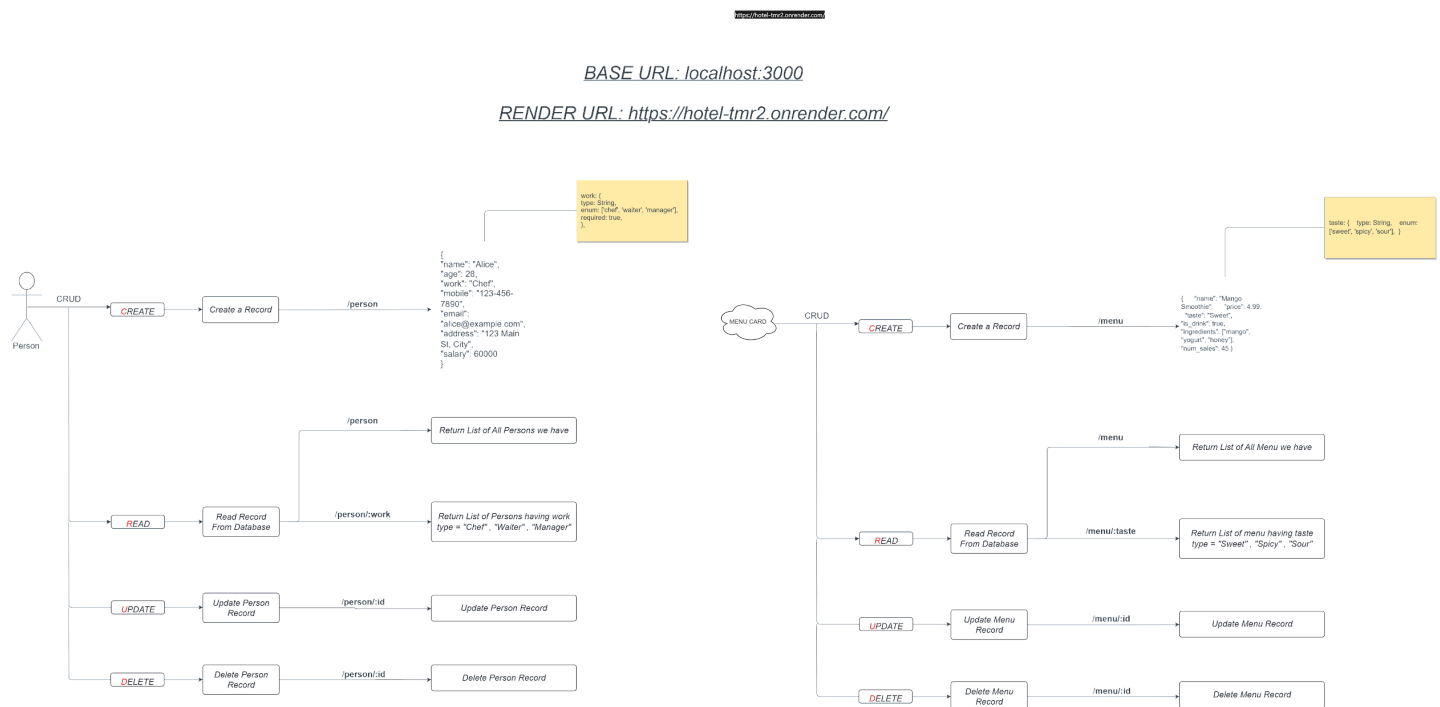


DAY 6

- *Homework Update for Menu API*
- **Task To create POST /menu and GET /menu**
- We are now creating a POST method to save menu details and it's similar to person details and the same for the GET method
- *Flow Diagram of API*



https://drive.google.com/file/d/1TswAyCgfsa04Hp6f4OP-Umg_GVkdW4eQ/view?usp=sharing

- *Parametrised API calls*
- Now if someone told you to give a list of people who are only waiters
- Then we can create an endpoint like this

- /person/chef
 - /person/waiter
 - /person/manager
- But this is not the correct method to create as many functions Here we can use parametrized endpoints
- It can be dynamically inserted into the URL when making a request to the API.

- localhost:3000/person/:work

→ work = ["chef", "waiter", "manager"]

```
app.get('/person/:work', async (req, res) => {
  try {
    const workType = req.params.work; // Extract the work type
    from the URL parameter

    // Assuming you already have a Person model and MongoDB
    connection set up
    const persons = await Person.find({ work: workType });

    // Send the list of persons with the specified work type as
    a JSON response
    res.json(persons);
  } catch (error) {
    console.error('Error fetching persons:', error);
    res.status(500).json({ error: 'Internal server error' });
  }
});
```

- *Express Router*

- We have lots of Endpoints in a single file server.js
- This makes bad experience in code readability as well as code handling
- Express Router is a way to modularize and organize your route handling code in an Express.js application.
- So let's create a separate file to manage endpoints /person and /menu
- Express Router is like a traffic cop for your web server
- Express Router helps you organize and manage these pages or endpoints in your web application. It's like creating separate folders for different types of tasks.

- Create a folder `routes` → `personRoutes.js`

```
const express = require('express');
const router = express.Router();

// Define routes for /person
router.get('/', (req, res) => {
  // Handle GET /person
});

router.post('/', (req, res) => {
  // Handle POST /person
});

module.exports = router;
```

- Now in **server.js**, we will use this **personRoutes**

```
// Import the router files
const personRoutes = require('./routes/personRoutes');

// Use the routers
app.use('/person', personRoutes);
```

- *Update Operation*

- We will update our person Records, and for that, we will create an endpoint from where we are able to update the record
- For Updation, we need two things
 - Which record we want to update?
 - What exactly do we want to update?
- For update, we will use the **PUT** method to create an endpoint
- What is a unique identifier in a document in a collection?
- It's **_id** which Mongodb itself gives, We will use this to find the particular record that we want to update
- —> And now we will send the data the same as we did in the POST method.

```
app.put('/person/:id', async (req, res) => {
  try {
    const personId = req.params.id; // Extract the person's ID
    from the URL parameter
    const updatedPersonData = req.body; // Updated data for the
    person

    // Assuming you have a Person model
    const updatedPerson = await
    Person.findByIdAndUpdate(personId, updatedPersonData, {
      new: true, // Return the updated document
      runValidators: true, // Run Mongoose validation
```

```

    });

    if (!updatedPerson) {
        return res.status(404).json({ error: 'Person not found'
    });
    }

    // Send the updated person data as a JSON response
    res.json(updatedPerson);
} catch (error) {
    console.error('Error updating person:', error);
    res.status(500).json({ error: 'Internal server error' });
}
});

```

• *Delete Operation*

- We will **Delete** our person Records, and for that we will create an endpoint from where we are able to delete the record
- For Deletion, we need one thing
 - Which record we want to update?
- For deletion, we will use the **DELETE** method to create an endpoint
- What is a unique identifier in a document in a collection?
- It's **_id** which Mongodb itself gives, We will use this to find the particular record that we want to delete

```

app.delete('/person/:id', async (req, res) => {
    try {
        const personId = req.params.id; // Extract the person's ID
        from the URL parameter

        // Assuming you have a Person model
    }
});

```

```
const deletedPerson = await Person.findByIdAndRemove(personId);

if (!deletedPerson) {
  return res.status(404).json({ error: 'Person not found' });
}

// Send a success message as a JSON response
res.json({ message: 'Person deleted successfully' });
} catch (error) {
  console.error('Error deleting person:', error);
  res.status(500).json({ error: 'Internal server error' });
}
});
```