

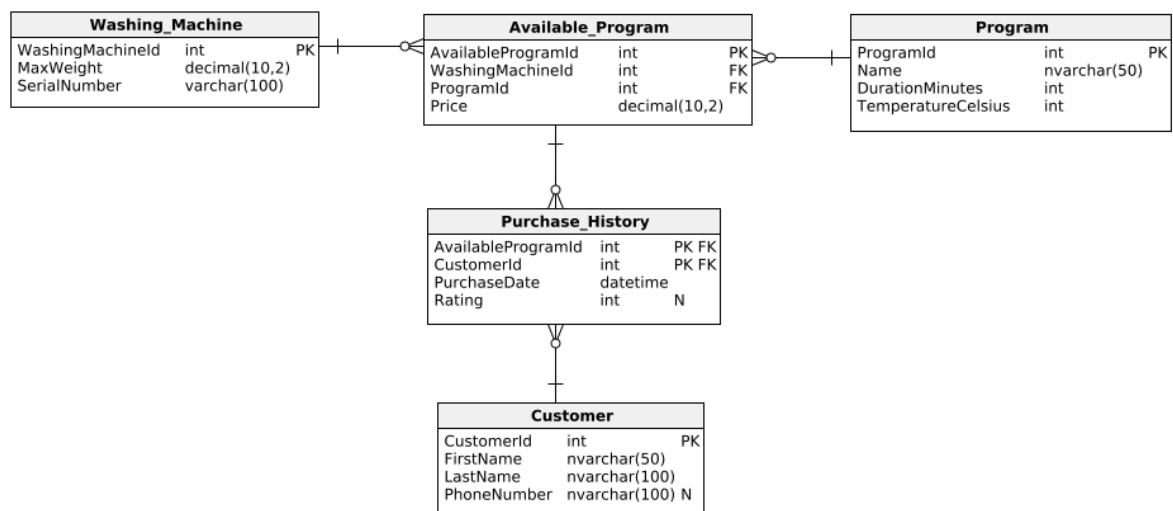
# Test 2A

In this task, you are required to design a web API application with the use of **EF** in **CodeFirst** approach.

## Database

The database we are using is presented below.

Add **example data** for each table.



# Endpoints

Design an endpoint that returns information about purchases for specified customer.

The endpoint should respond to requests at the address

/api/customers/{customerId}/purchases np.

HTTP GET <http://localhost:5000/api/customers/1/purchases>

Example data that will be returned:

```
{
  "firstName": "John",
  "lastName": "Doe",
  "phoneNumber": null,
  "purchases": [
    {
      "date": "2025-06-03T09:00:00",
      "rating": 4,
      "price": 33.4,
      "washingMachine": {
        "serial": "WM2012/S431/12",
        "maxWeight": 32.23
      },
      "program": {
        "name": "Quick Wash",
        "duration": 69
      }
    },
    {
      "date": "2025-06-04T09:00:00",
      "rating": null,
      "price": 48.7,
      "washingMachine": {
        "serial": "WM2014/S491/28",
        "maxWeight": 52.23
      },
      "program": {
        "name": "Cotton Cycle",
        "duration": 143
      }
    }
  ]
}
```

Design an endpoint that allows adding a new washing machine along with its available programs.

- The price of a given program must not exceed 25,
- The maximum allowable weight must not be less than 8.

The endpoint should respond to a request at the address `/washing-machines`, for example.

HTTP POST <http://localhost:5000/washing-machines>

Example data sent with the request:

```
{
  "washingMachine": {
    "maxWeight": 9.52,
    "serialNumber": "WM2025/S1431/13"
  },
  "availablePrograms": [
    {
      "programName": "Quick Wash",
      "price": 12.99
    },
    {
      "programName": "Cotton Cycle",
      "price": 17.29
    },
    {
      "programName": "Synthetic",
      "price": 23.99
    }
  ]
}
```

The endpoint should return the appropriate status in the following cases:

- A washing machine with the given serial number exists,
- A program with the specified name does not exist,
- The data does not pass validation.

## Notes

- A program that does not compile - **0 points**
- Test has to be solved with **CodeFirst** approach
- No migrations - **0 points**
- Solved test without example data: **-50%**
- A program that is not in a GitHub repository - **0 points**
- A program that is plagiarized – **grade 2 (fail) as final score**
- Missing .gitignore file or unnecessary files in repository: - **50%**
- AI – **grade 2 (fail) as final score**