

# Feedback | Group 7

---

## Table of Contents

- [Milestone 1 Tasks](#)
- [Milestone 1 Feedback](#)
- [Milestone 2 Tasks](#)
- [Milestone 2 Feedback](#)
- [Milestone 3 Tasks](#)
- [Milestone 3 Feedback](#)
- [Milestone 4 Tasks](#)
- [Milestone 4 Feedback](#)
- [Demo](#)
- [Final Grade](#)

# Milestone 1

## Problem Definition | 20 points

The problem is defined correctly, and the structure is kept.

- Broad Area of Interest
- Preliminary Research
  - Current trends
  - Opportunities
- Solution with Methodology
  - Data Collection
  - Analytical Techniques
  - Implementation Plan
- Expected Outcomes
- Evaluation Metrics

Grade: 20

## Roadmap | 10 points

The roadmap seems realistic.

Grade: 10

## Administrative Tasks | 5 points

- Roles are assigned
- Preliminary discussion with me was done
- Slack channel is created
- Github Repo is created

Grade: 5

## Technical Tasks | 5 points

- Proper `.gitignore` file is available
- The Requirements.txt file is available, indicating that `venv` was created
- The first chapter of the Package Development course is done by **everyone**

Grade: 5

## Grade

Overall, you did a really great job during the M1. Keep it like that!

Final Grade: 40/40

---

## Milestone 2 | Tasks

### Product and Project Manager | 40 points

1. Name your Python package: register to [pypi](#)
2. Install `mkdocs` package to start with the documentation
3. Database schema: Provide your product database structure (ERD)
4. Transform your project file structure according to the below tree

```
PythonPackageProject/ #github repo
├── yourpackagename/
│   ├── __init__.py
│   ├── submodule1/ #database related
│   │   ├── __init__.py
│   │   └── submodule1_1.py
│   ├── submodule2/ #model related
│   │   ├── __init__.py
│   │   └── submodule1_2.py
│   └── submodule3/ # api related
│       ├── __init__.py
│       └── submodule1_2.py
├── tests/
│   ├── __init__.py
│   ├── test_module1.py
│   └── test_module2.py
├── example.ipynb # showing how it works
├── run.py # in order to run an API
├── docs/ #this folder we need for documentation
├── .gitignore
├── requirments.txt
├── README.md
├── LICENSE
└── setup.py
```

### Data Scientist and Data Analyst | 20 points

1. Simulate the data if you need
2. Try to use the CRUD functionality done by DB Developer
3. Work on modeling part using simple models

```
from yourpackage.submodule2 import modelname
```

### Database Developer | 30 points

1. Create a DB and respective tables suggested by the Product Manager
2. Connect to SQL with Python

3. Push data from flat files to DB
4. Test the code provided [here](#) and complete the missing components
5. Add extra **methods** that you might need throughout the project:
  1. Communicate with PM and API Developer for custom functionality

```
from yourpackage.submodule1 import sqlinteractions
```

## API Developer | 30 points

1. Communicate with DB Developer and PM in order to design the API
2. You can create dummy endpoints in the beginning, then communicate with PM as well
3. The following endpoints must be available:
  1. GET
  2. POST
  3. UPDATE

Check out this [this repo](#).

```
from yourpackage.submodule2 import api
```

---

## Milestone 2 | Feedback

- Add some description in **README.MD**, which is going to be a description on pypi
- Make sure to add minimal requirements for the **setup.py**
- I would also recommend to keep **logger** module and use it instead of **print()** function
- I removed **apivenv**, no need to have it in the repo, put it in **.gitignore**

## DataCamp

Done by everyone.

## Product and Project Manager | 40 points

1. The package is **not** registered in Pypi or I couldn't find it
2. **mldocs** package is **not** in the requirements.txt
3. The schema is provided
4. **Partially done:**
  1. Note: you need to provide the references in the **\_\_init\_\_.py** files, in order to import modules, submodules etc.
  2. **requirements.txt** file is not updated: **uvicorn** package is not there. Make shure to update it, otherwise run.py will not work
  3. db folder: csv files must be out of the package. Remember the user is going to import your objects from the **CRR** package and provide flat files.
  4. **setup.py** is empty, here you need to provide package information(check the datacamp course)
  5. in the package, you cannot have **GenerateCsv.ipynb**, see the point 3 **Grade: 20/40**

## Data Scientist and Data Analyst | 20 points

- The data was successfully simulated/ingested
- modeling module was initiated, and tested.
- **Again guys, **ipynb** files are not accepted to have inside of the package, you need to import the the package and then start making experiments.**

**Grade 15/20**

## Database Developer | 30 points

- DB and schema was successfully implemented
- Connection between SQL and Python is available
- The Data is loaded
- Custom functions are available in **db\_interactions.py** file
- **absolute path in dp.py file row 85**

**Grade: 15/30**

## API Developer | 30 Points

- **run.py** is working properly

- Requests:
  - POST request is available
  - GET request is available
  - PUT(update) request is not available

Grade: 30/30 Good Job!

M2 Grade: 80/120

---

## Milestone 3 | Tasks

### Remaining tasks from M2

- fix `__init__.py` files
- create a separate data folder out of `CRR` and put all the csv
- move `ipynb` files out of package try it externally as required in M2
- fix `setup.py`
- fix absolute path!
- I have updated the `requirements.txt`

### DataCamp

Complete the third chapter.

### Product and Project Manager | 30 points

1. Design the final endpoints:
  - the outputs you need for modeling
  - the outputs you need to analyze the study
2. Communicate the outputs with the team in order to help them create/modify final classes/methods, etc.
  - design query functions according to your needs
  - design modeling components according to your needs
3. Create sample documentation using `mkdocs`. Once you have the final version of a package, you'll update it. For now, push to GitHub the following:
  - a selected template
  - `index.md` page1 and page2 with dummy content (though you are free to provide actual documentation as well)

### Data Scientist and Data Analyst | 30 points

- Create a model based on the Product Manager's requirements (or improve the existing file and ingest the output to DB)
- Insert the outcome into the respective SQL folder. (communicate with the Product Manager and DB developer in case you need extra table and/or functionality)
- Data Analyst must try to:
  - interpret the model
  - create custom visualizations
  - suggest/support Product Manager to make decisions about product's final design

### Database Developer | 30 points

- Based on the new/updated requirements, provide functionality in order to interact with the DB
  - API developer might need customer functionality for the final endpoints

- Data Scientist/Analyst developer

## API Developer | 30 Points

- make your requests directly from the Database and update based on Product Manager's request
- Note: you can make endpoints to test the data as well `get_something()`.



## Milestone 3 | Feedback

Remaining tasks from M2

All done!

Datacamp

Done by Everyone!

## Product and Project Manager

- Final endpoints are provided
- Sample documentation is provided

Grade: 30/30

## Data Scientist

- The "predictive model" is created
- Data Analytics is done

Grade: 30/30

Database Developer

All done!

30/30

API Developer

All done!

30/30

---

Good job! Grade: 120/120

## Milestone 4 | Tasks

### 1. Documentation 30 points

- Create comprehensive documentation using **MkDocs**.
- Each module (e.g., API, database, logger, model) should have its own dedicated page within the documentation.
- The first page should provide a high-level overview detailing the **Problem**, **Solution**, and **Expected Outcomes**.
- Host the completed documentation on **GitHub Pages**.

### 2. README.MD 25 points

- The README file is also going to be the first page description in pypi.org. So make sure to make it as informative as possible.
- mkdocs weblink
- steps using the package
- API GET Requests (the links which are showing up in the swagger under the each endpoint)
- put it in `setup.py` (in order to make it available on pypi)

### 3. Requirements and Environments 15 points

- Develop at least two requirements.txt files to manage dependencies more effectively.
  - `package_requirement.txt`
  - `docs_requirements.txt`
- Create two separate virtual environments
- for the main package (excluding **ipykernel** or **notebook** and other not directly related packages)
- building the documentation

### 4. Repository Management 15 points

- Clean up the repository to ensure it contains no extraneous files.
- Host the main package on PyPI.

### 5. Demonstration Notebook: 15 points

- Provide an `example.ipynb` file **outside** of the main package.
- This notebook should demonstrate at least two scenarios where the solution is applied effectively **Grade: 30/30**

## Milestone 4 Feedback

### Documentation

- The MkDocs weblink is missing.
- The docstrings **are not properly written**:
  - in the `sql_intersection.py` the data types of the arguments are missing

Grade: 27/30

### README.MD

- Readme is included the `setup.py`
- The MkDocs weblink is provided
- Readme is well designed

Grade: 25/25

## Repository Management

Here everything is fine.

Grade: 15/15

## Requirements and Environments

Here everything is fine.

Grade: 15/15

## Demonstration Notebook

Perfect!

Grade: 15/15

---

M4 Grade: 100/100

# Demo | 20 points

---

You need to introduce the product with 10 minutes.

## The presentation format:

- **Slide 1:** The Problem
- **Slide 2:** Solution
- **Slide 3:** The problem solving methodology
- **Slide 4-5:** Demo
  - Anything you'd like to show
  - business case scenario 1
  - business case scenario 2

Demo Grade: 20/20

# Final Grade

**Grade:** 360/400