Feedback | Group 3

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: 20/20

Roadmap | 10 points

The roadmap seems realistic.

Grade: 10/10

Administrative Tasks | 5 points

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

Grade: 5/5

Technical Tasks | 5 points

- Proper `.gitignore` file is available; however, Python track wasn't selected
- The Requirments.txt file is available, indicating that `venv` was created
- The first chapter of the Package Development course is done by **everyone**

Grade: 4/5

Grade

Final Grade: 39/40

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/ #githhub 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 the 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

Tasks from Milestone 1

You have fixed gitignore file. Good job!

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Done by everyone.

Product and Project Manager | 40 points

1. The package is registered in pypi
2. mkdocs package is in the requirments.txt
3. Done
4. Done Good Job!

Grade: 40/40

Data Scientist and Data Analyst | 20 points

- The data was successfully ingested
- modeling module was initiated

Grade 20/20

Database Developer | 30 points

- DB and schema was successfully implemented
- Connection between SQL and Python is available
- Data is loaded
- Custom functions are available

Good job Sergo jan!

Grade: 30/30

API Developer | 25 Points

- neither in `run.py` nor `test_api.py` I couldn't see api related tests/calls. Check out the updated `run.py`. Kindly note that in the package, which in your case is BWS, you are not going to run anything; that's why you are adding paths manually.
- Requests:
    - POST request is available
    - GET request is not available
    - PUT(update) request is not available

Grade: 15/30

I would recommend also including the **logger module** in proper logging.

M2 Grade: 105/120

Milestone 3 | Tasks

Remaining tasks from M2

- fix init.py's for the remaining folders
- add the missing requests in `api.py`

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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
- 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 or create custom visualizations

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

- Fix related files
- create the endpoints based on the requirements of the Product Manager
- Note: you can make endpoints to test the data as well `get_something()`