

Feedback | Group 4

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Milestone 1 Tasks

1. Problem Definition (you can learn more about it [here](#))
2. Finalizing roles [here](#)
3. Schedule a call/meeting with me and Garo
4. Create a product roadmap and prioritized functionality (items)
5. Create a GitHub repository including `readme.md` and `.gitignore` (for Python) files
6. Create a virtual environment in the above repo and generate `requirements.txt` (ensure `venv` is ignored in git)
 - Create venv: `python -m venv venv`
 - Activate: `source venv/bin/activate`
 - Install: `fastapi`
 - Create `requirements.txt`: `pip freeze > requirements.txt`
 - Deactivate: `deactivate`
7. Push *Problem Definition*, *GitHub repo setup* (`readme.md` and `.gitignore`), `requirements.txt`
8. Prototype the UI using *Figma* or another similar tool
9. Create a private Slack channel in our Workspace and name it **Group {number}**
10. Install VS Code (also install the Project Manager extension)

Milestone 1 Feedback

Problem Definition | 10 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: 10/10

Roadmap | 10 points

The roadmap seems realistic

Grade: 10/10

UI | 10 Points

Perfect!

Grade: 5/10

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 for `Python`
- The `Requirments.txt` file is available with pre-installed packages, indicating that `venv` was created

Grade: 5/5

Grade

Final Grade: 40/40

Milestone 2 | Tasks

Product and Project Manager | 20 points

1. Install `mkddocs` package to start with the documentation (PSS will be available)
2. **Database schema:** Provide your product database structure (ERD)
3. Transform your project file structure according to the below tree.
4. check all the bellow activities from your team and merge everything

```
PythonPackageProject/ #github repo
├── yourapplications/
│   ├── docker-compose.yaml
│   ├── .env
│   ├── service1/ #postgres
│   │   ├── .py files # if needed
│   │   └── Dockerfile # if needed
│   └── service2/ # pgadmin
│       ├── .py files # if needed
```

```
|      └─ Dockerfile # if needed
|      └─ service3/ # etl related
|          └─ .py files
|          └─ requirments.txt
|          └─ Dockerfile # if needed
|─ example.ipynb # showing how it works
|─ docs/ #this folder we need for documentation
|─ .gitignore
|─ README.md
|─ LICENSE
```

Data Scientist and Data Analyst | 20 points

1. Create a new **git branch** and name it **ds**
2. Simulate the data if you need
3. Try to use the CRUD functionality done by DB Developer
4. Work on modeling part using simple models, conduct extra research
5. Push your works to respective branch
6. Create pull request for the Product Manager

Database Developer | 30 points

1. Create a new **git branch** and name it **db**
2. Create a DB and respective tables suggested by the Product Manager
3. Connect to SQL with Python
4. Push data from flat files to DB
5. Add extra **methods** that you might need throughout the project
6. Push your works to respective branch
7. Create pull request for the Product Manager

API Developer | 30 points

1. Create a new **git branch** and name it **back**
2. Create a new service and name it **back**
3. Communicate with the DB Developer and PM in order to design the API
4. You can create dummy endpoints in the beginning (PSS will be available)
5. The following endpoints must be available:
 1. GET
 2. POST
 3. PUT
 4. DELETE
6. Push your works to respective branch
7. Create pull request for the Product Manager

Front End Developer | 20

1. Create a new **git branch** and name it **front**
2. Create a container/service and name it **front**

3. Communicate with the PM in order to create the skeleton of the website.
4. Push your works to respective branch
5. Create pull request for the Product Manager