

# Feedback | Group 2

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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

In the UI, I could find the endpoint related, except the **log in** port. Could you please clarify how the endpoints are going to work. What are going to be the actions?

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: 35/40

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# Milestone 2 | Tasks

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## Product and Project Manager | 20 points

1. Install **mkdocs** 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. Convert **.docx** formats into **pdf**
5. instead of **...\_link.txt** files, provide proper **readme.md** file
6. 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

## Milestone 2 | Feedback

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### Product and Project Manager | 20 Points

1. **MkDocs** is installed, and dummy documentation is present.
2. The file structure is **mostly correct**. Simply change the **yourapplications** directory name into meaningful one. Remove **service 1** and **service 2** directories.
3. The ERD seems **mostly correct**; however, the **results** table is missing stored. We need such table in order to store the predictions.
4. Consider changing the database name to something more meaningful. 😊
5. Merging has been done properly.

Grade: 15/20

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### Database Developer | 30 Points

From a database development perspective, everything has been done properly.

Grade: 30/30

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### Data Scientist and Data Analyst | 20 Points

Good job!

It was expected to connect to the DB **directly** and then start experimenting.

Grade: 15/20

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### API Developer | 30 Points

From an API development perspective, everything has been done properly.

Grade: 30/30

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### Front End Developer | 20 Points

Good job!

Grade: 20/20

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**Final Grade: 100/120**

## Milestone 3 | Tasks

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### Product and Project Manager | 40 Points

1. From the previous milestone, you must have:
  - Updated the ERD diagram to include the missing results table.
  - Applied a new database name across the project.
  - Remove extra files
2. Design all the endpoints required and share them with the Backend and Frontend teams:
  - Ensure the endpoints cover the functionality needed for the web application to work.
3. Support the Frontend Engineer in finalizing the UI (no need to connect with FastAPI within this milestone; this will be done in Milestone 4):
  - Research Streamlit components/elements.
  - Suggest appropriate elements.

**Note:** No need to reinvent just stick with built-in Streamlit functionality.

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### Database Developer | 10 Points

1. Update the **database** tables based on the new **ERD** from the previous milestone.
  2. Finalize the documentation using proper docstrings.
  3. Push the final output to the respective **branch**.
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### Data Scientist | 20 Points

1. Build the final model (no need to try multiple models, it is not required though you can keep them).
  2. Prepare the final output.
  3. Push the results to db
  4. Push the final output to the respective **branch**.
- 

### API Developer | 30 Points

1. Create **all** the required endpoints (coordinate with the Product Manager).
  2. Create schemas using **Pydantic**:
    - **Response Models**: Define the structure of the return values.
    - **Documentation**: Add docstrings to all your endpoints.
  3. Push the final output to the respective **branch**.
- 

### Frontend Developer | 20 Points

1. Build the final layouts of the app.
2. Communicate with the Product Manager for requirements.

3. Use Streamlit's built-in elements/components.
4. No need to connect with the endpoints; this will be required for the final version.
5. Push the final output to the respective **branch**.