

# AST-Assignment #1

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Facebook is a social media platform with lots of functionalities. In this assignment we will apply the knowledge we gained on software modeling with UML to develop a command line interface that behaves like Facebook by implementing a few basic functions. The final deliverables include:

- A model of your system (CRC cards, class diagrams).
- An accurate code implementation of your model.

After submitting your code, we will have a short interview to assess your work.

## 1 Modeling Facebook

Like we mentioned before, Facebook has tons of different functions. However, we have narrowed down the basic functionalities your system should have:

- Register new users, with usernames and passwords.
- Login into an account, with username and password.
- Search users by their first name.
- Add a friend to the friend list.
- Create, Join and Leave a group.
- Create a text post.
- See the post activity of added friends and joined groups.

**You only have to model and implement a system with the functionalities described above.**

## 2 From model to code

Once you have a stable model, you can begin implementing it. Please use **Python 3** to develop your system. We would like to see that your code is *Pythonic*, which is a way to write readable code, check the link in the resources section to learn more on this. It is also important that your code is **readable, well commented, organized and representative of your final model.**

## 3 assignment submission

- This assignment can be submitted by individuals or pairs only.
- The deadline for this assignment is **08.05.2020**. Please *do not* make more commits on your GitHub repository after the deadline.
- All models should be on a single PDF file called `models.pdf`.
- All the code should be place on the `./code` folder.
- Submission is made through GitHub. Please, try to commit your progress constantly as commits after the deadline won't be taken into consideration.

## 4 Notes

- We expect a command line interface (CLI) to use your program, not a GUI.
- Only one member of the team has to open a repository.
- You should be able to explain your code and your design decisions.
- You can use a database to store information, but this is not a requirement and can be avoided if you prefer.
- Update `requirements.txt` before submitting.
- You can contact the T.A. for any questions you may have with the email address provided at the beginning of this document. Please, write [AST-Assignment #] in the subject and your name(s) in the body of the email.

## 5 Resources

- Code Style: <https://docs.python-guide.org/writing/style/>