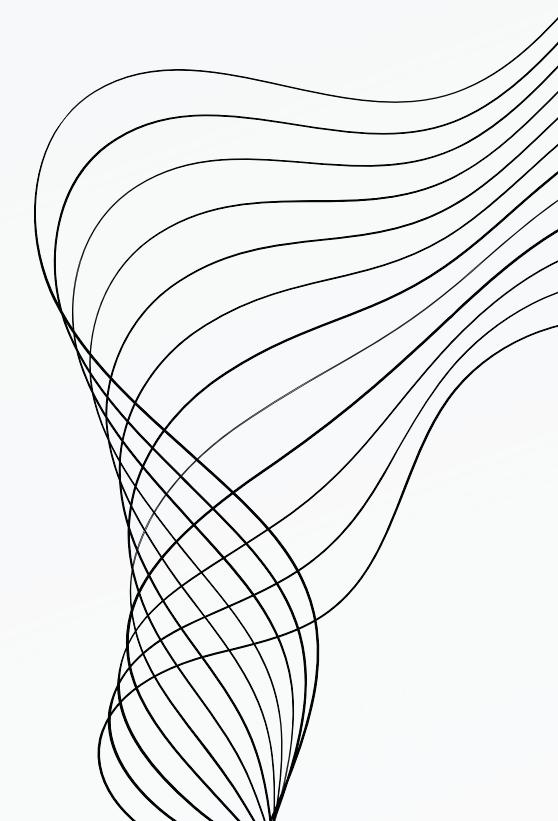


**EPPS 6354**

**ASSIGNMENT 6**

**BY JANNELLE NAVALES**





# QUESTION 1A

Facebook's API uses JSON to transmit data between the web application and server. When fetching data from the API, i.e. user profile details, JSON strings are typically returned. Facebook created the TAO data model (The Associations and Objects) to represent the complex relationships between different entities, relying on MySQL.




# QUESTION 1B

The New York Times' website uses Rich Site Summary (RSS) feeds, which are XML files. Updates to these files (i.e. new stories) are reflected in users' view of their feeds. Various languages, such as CSS and HTML for frontend, and PHP, Java, and Python for backend, are used to construct website and display data.



# QUESTION 2A

```
select s.ID  
from student as s  
left outer join advisor as a  
on s.ID = a.s_id  
where i_ID is null;
```



# QUESTION 2B

```
select i.name, i.id
from instructor as i, teaches as t, course as c
where i.id = t.ID and c.course_id =
t.course_id and i.dept_name = c.Dept_name
group by i.name
```

name	ID
Brandt	83821
Crick	76766
Einstein	22222
El Said	32343
Katz	45565
Kim	98345
Mozart	15151
Srinivasan	10101
Wu	12121