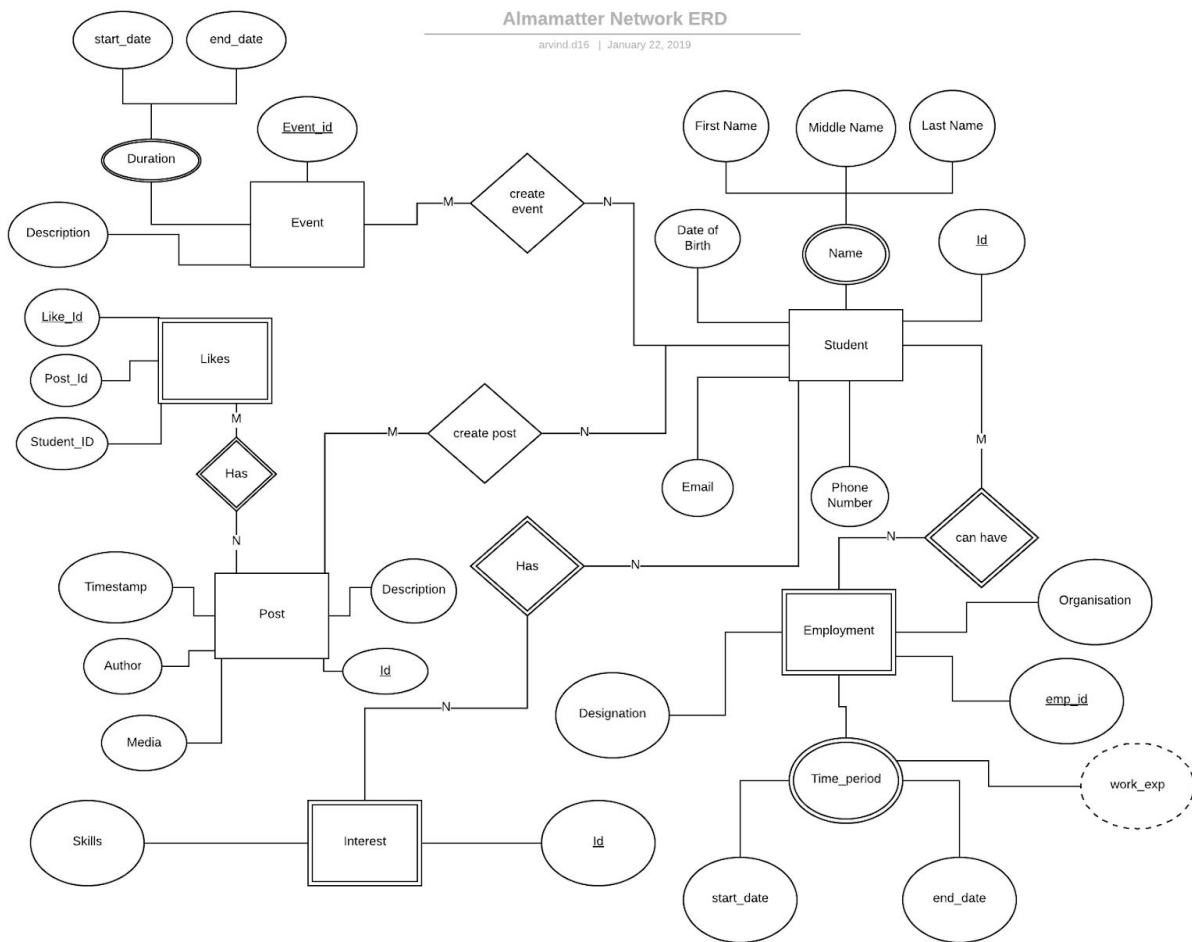


## Tutorial Notes : 1

### ER - Diagram



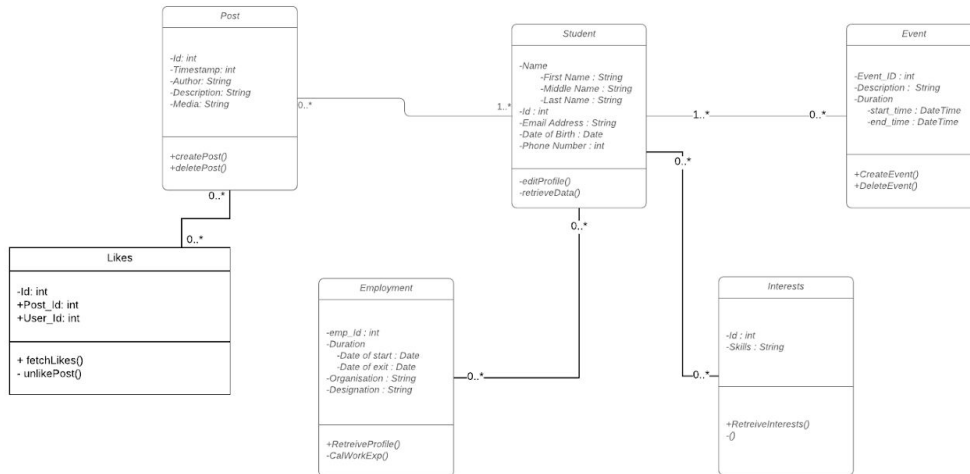
Here there can be many more relations or the structure can be altered based on the use cases necessary for the application.

Ex: Here there is a potential ternary relationship between Students, posts and likes.

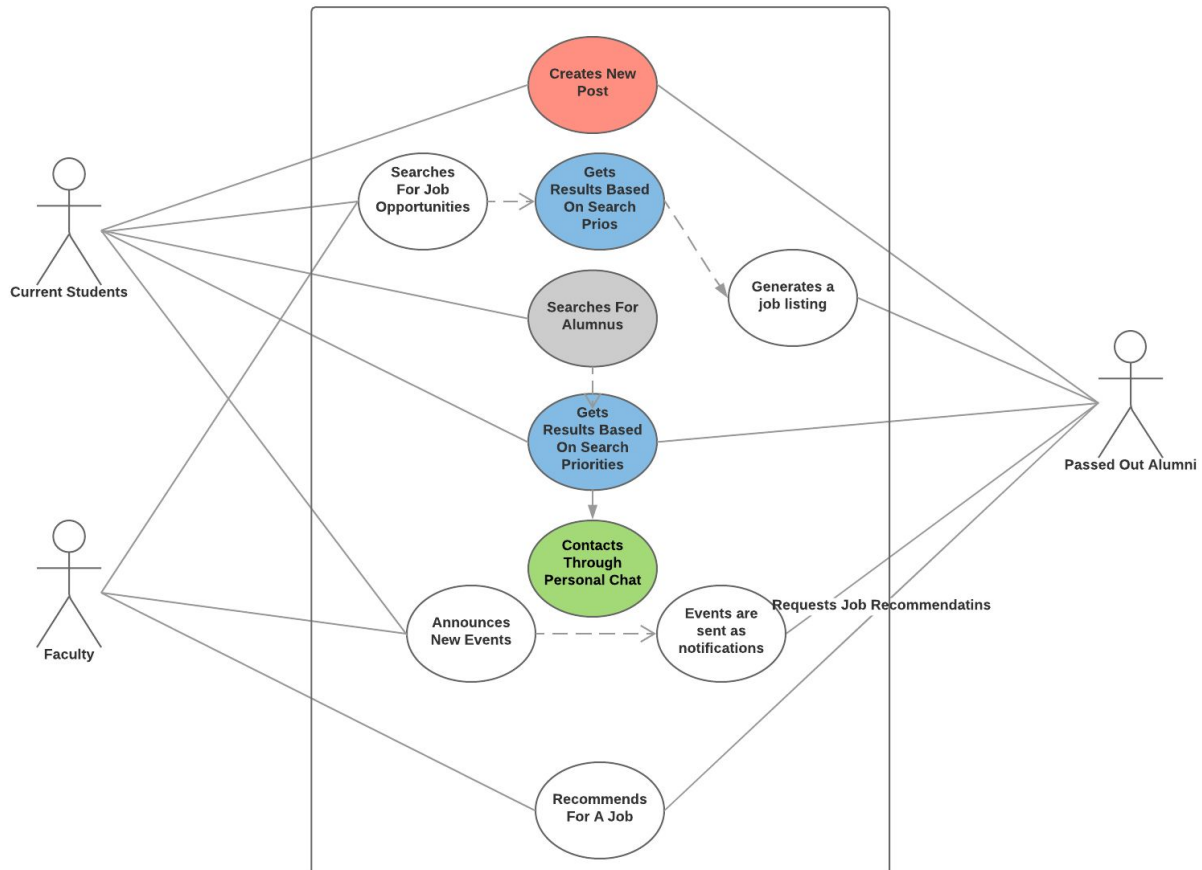
### Class Diagram

## Almamatter Network UML Class Diagram

arvind.d16 | January 22, 2019



## Use case diagram



### Lucidcharts:

<https://www.lucidchart.com>

### Rational Rose Tutorial:

[https://www.tutorialspoint.com/uml\\_online\\_training/uml\\_working\\_with\\_rational\\_rose.asp](https://www.tutorialspoint.com/uml_online_training/uml_working_with_rational_rose.asp)

### Composite and Multivalued attributes:

<https://docops.ca.com/ca-gen/8-5/en/developing/analyzing/analyzing-data/composite-and-multi-valued-attributes>

This is to clarify any doubts regarding the difference between Multivalued and composite data types that few students asked.

**UML Rules:**

<https://www.ibm.com/developerworks/rational/library/content/RationalEdge/sep04/bell/index.htm>  
!

**JSON Data in MySQL:**

<https://www.google.com/amp/s/scotch.io/tutorials/working-with-json-in-mysql/amp>

<https://stackoverflow.com/questions/43494824/when-can-i-save-json-or-xml-data-in-an-sql-table>

Please go through this links to get a bigger picture of using JSON in RDBMS scenarios.

**Use case actors:**

<https://blogs.oracle.com/oum/use-case-actors-primary-versus-secondary>

For clarifications on who should be considered as a primary and who should be considered secondary actor.

**Why normalise data:**

<https://www.quora.com/Why-the-need-for-normalization?ch=10&share=843eb174&srid=uIUaA>

Points out the significance of normalisation and how it developed as a convention.