

**Name:**

**Class: D-2**

**Roll no: 16010123324, 16010123325, 16010123331**

Study of Umbrello Unified Modelling Language tool Or Lucidchart: flowcharts and diagram drawing tool

- 1) Diagrams.net (Draw.io)
- 2) Lucidchart
- 3) UMLet
- 4) Dia
- 5) Umbrello Unified Modelling Language tool

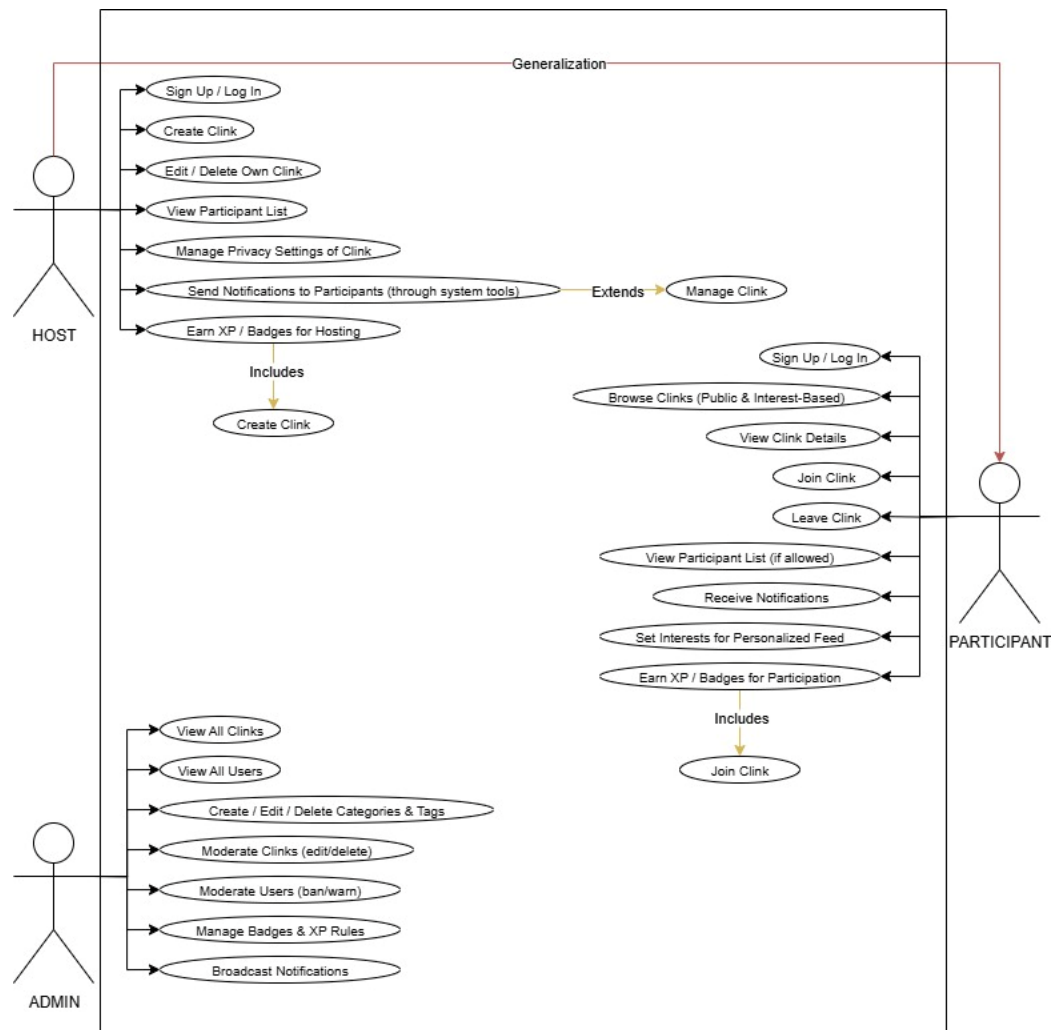
Tool	Use Case	Class	ER
<b>Draw.io</b>	Supported via templates and shape libraries	Supported (Manual, but flexible)	ER diagram templates available
<b>Lucidchart</b>	Native support with standard notation	Full support with UML tools	Built-in ER diagram shapes
<b>UMLet</b>	Simple support, quick UML sketching	Strong UML support	No native ER diagram support
<b>Dia</b>	Supported via UML sheet	Supported (basic UML elements)	ER shapes available
<b>Umbrello UML</b>	Fully supported (UML-specific)	Comprehensive UML class tools	Limited ER support (can be mimicked using class diagrams)

Draw.io (Diagrams.net) is a highly recommended tool for students due to its numerous advantages. It is completely free, with no hidden limits or premium restrictions found in some alternatives. The platform works both offline and online, allowing usage without an internet connection through the desktop app. It supports a wide range of diagrams including use case, class, and ER diagrams through templates and shape libraries. Additionally, it offers clean export options, enabling diagrams to be saved in formats such as PNG or PDF, or embedded directly into reports and assignments.

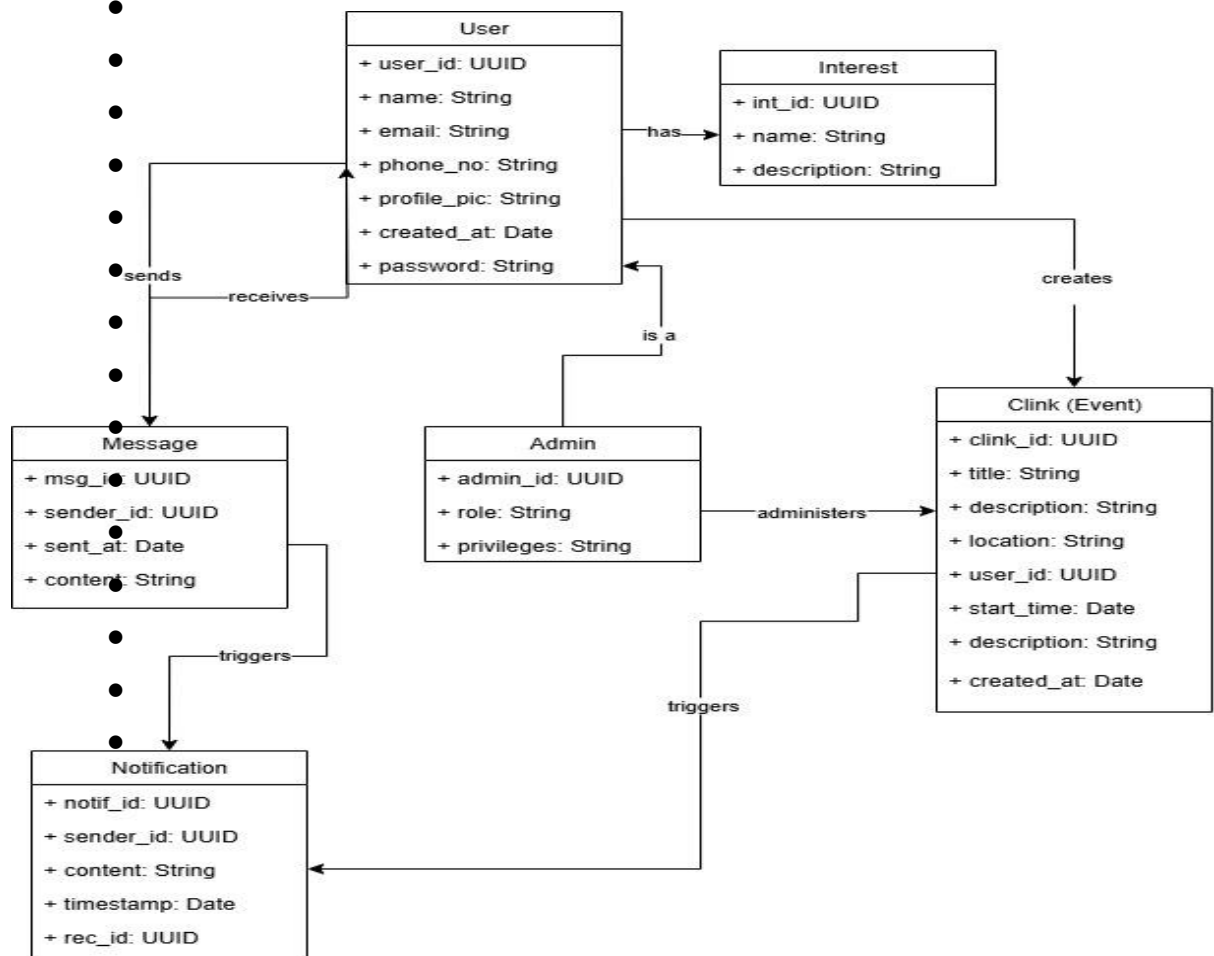
Other tools are less suitable for general student use. Lucidchart offers excellent user experience but has a very limited free version that restricts the number of diagrams and objects. UMLet is fast for UML but lacks ER diagram support, provides no real layout control, and appears outdated. Dia is functional but has a clunky interface, and its diagrams are less clean or modern. Umbrello UML is best for UML class and use case diagrams but does not support true ERDs and, being KDE-based, may not work smoothly on all operating systems, such as Windows.

The following Diagrams need to be drawn for your choosen project:-

- **Use Case Diagrams**



- **Class Diagrams**



- ER Diagrams

