The **Resident** possesses the following information: first name (f\_name), last name (l\_name), photograph, DOB, address, phone number, email, password, and bio. Each resident is assigned a unique identifier resident\_id.

**Residents** can report multiple **Incidents** through separate posts. An Incident comprises the following elements: title, content, multimedia attachments, incident date. Each Incident is assigned a unique identifier incident\_id.

Each **Incidend** have many **Attachments** for comprehensive information sharing. Each Attachment has a unique identifier attachment\_id.

**Residents** can like and comment on multiple **Incidents**.

Additionally, a **Resident** may operate a business, with each **Resident** able to offer multiple **Products** for sale. A product includes the following attributes: name, quantity, and cost, each uniquely identified by a product\_id.

**Residents** can also organize **community\_events**, inviting participation from fellow Residents. A community event encompasses details such as the event information, location, date, and number of participants. Each event is assigned a unique identifier event\_id.

Private messaging allows Residents to engage in one-on-one conversations, while group chat functionality permits multiple Residents to communicate simultaneously.

A diagram of a flowchart

Description automatically generated