## NOTE_NLP & NOTE

<table>
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<tr>
<th>Field</th>
<th>Required</th>
<th>Type</th>
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<tr>
<td>note_nlp_id</td>
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<td>Big Integer</td>
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<tr>
<td>note_id</td>
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<td>offset</td>
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<td>varchar(50)</td>
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<td>term_modifiers</td>
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<td>varchar(2000)</td>
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<table>
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<tr>
<th>Field</th>
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<tbody>
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<td>note_id</td>
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Normalization of the term\_modifier

- 1. collect the modifier list;
- 2. define normalized value of each modifier;
term_modifiers

General:
- Negated
- Subject
- Certainty
- Conditional
- Temporal
discoveryTechnique??
- Confidence??

Disease specific:
- Body location
- Severity
- Course

Medication specific:
- Dose
- Form
- Frequency
- Duration
- Route
- Necessary

Test specific:
- Value
- Unit
- Reference Range

Procedure specific
- Body location
- Device
- Duration
- Method
General

• Negation, Boolean; True means negated;

• Subject, String Enum;
  • Question: granularity?
    • Family | Other | Patient    Or    father | mother | roommate | friend | patient...

• Certainty, String Enum;
  • Definite | Probable | Uncertain | Probable Negated | Definite Negated;

that may be a congenital abnormality.
General

• Generic, boolean;
  • True means generic mentions;
• Conditional, boolean;
  • True when has conditional modifiers;
• Temporal, String;
  • Date, Time, Duration, Frequency;
• Discovery technique, String?
• Confidence score, double?

The patient was referred to the Lupus clinic.
Disease specific

• Body location
  • Map to UMLS CUI | standard vocabulary;

• Severity
  • unmarked | slight | moderate | severe | life threatening | fatal

• Course
  • unmarked | changed | increased | decreased | improved | worsened | resolved

Mild tortuosity of the thoracic aorta,

increase in chest pain, any increase in sputum prior to the
Medication specific

- Medication specific:
  - Dose, double
  - Frequency, String
  - Duration, String
  - Form, String enum;
  - Route, String enum;
  - Necessary,
  - Start date?
  - End date?
Test specific

- **Value, String;**
  - Value could be int, double, percentage, range

- **Unit, String enum;**
- **Reference Range, String;**
Procedure specific

- Body location
  - Map to UMLS CUI | standard vocabulary;
- Device
  - Map to UMLS CUI | standard vocabulary;
- Duration, String
- Method, String