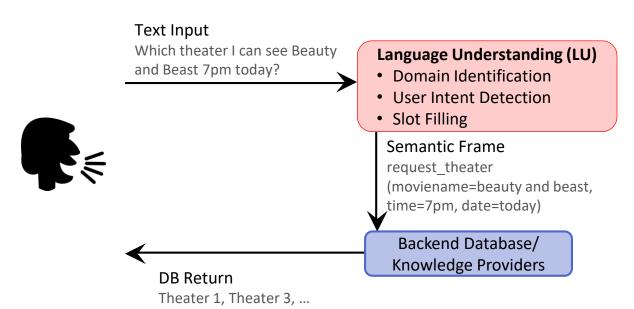


Milestone 1 – Single-Turn QA



Milestone 1 – Ontology Construction

- Construct the backend databases
 Can be online/offline via a downloaded data
- 2) Design the dialogue semantic schema
 - Decide the number of <u>tables/domains</u> to support
 - Decide the supported <u>user intents</u>
 - Decide the <u>slots</u> that can be specified
- 3) Generate training examples for each intent
 - Annotate semantic frames (intents and slots)

Milestone 1 – Language Understanding

- 3) Collect and annotate data
- 4) Use machine learning method to train your system
 - Conventional
 - SVM for domain/intent classification
 - CRF for slot filling
 - Deep learning
 - RNN, LSTM for domain/intent classification and slot filling
- 5) Test your system performance

Milestone 1 Requirements

- Report (10%)
 - Ontology
 - List all backend tables
 - List all supported functions
 - e.g. request_moviename, request_theater, etc
 - Language Understanding
 - List all intents and slots in the semantic schema
 - Describe how you implement the LU
 - Approach (e.g. RNN) must include learning based approach
 - Training data statistics
 - Show some training and testing examples and their predicted semantic frames
- Demonstration (5%)
 - Run your code to TAs
 - TAs will randomly pick 5 examples and see the results

Movie Name	Theater	Date	Time
美女與野獸	台北信義威秀	2017/03/21	09:00
美女與野獸	台北信義威秀	2017/03/21	09:25
美女與野獸	台北信義威秀	2017/03/21	10:15