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Applied Data Science Project

L7 - Project design tools

Giuseppe Rizzo
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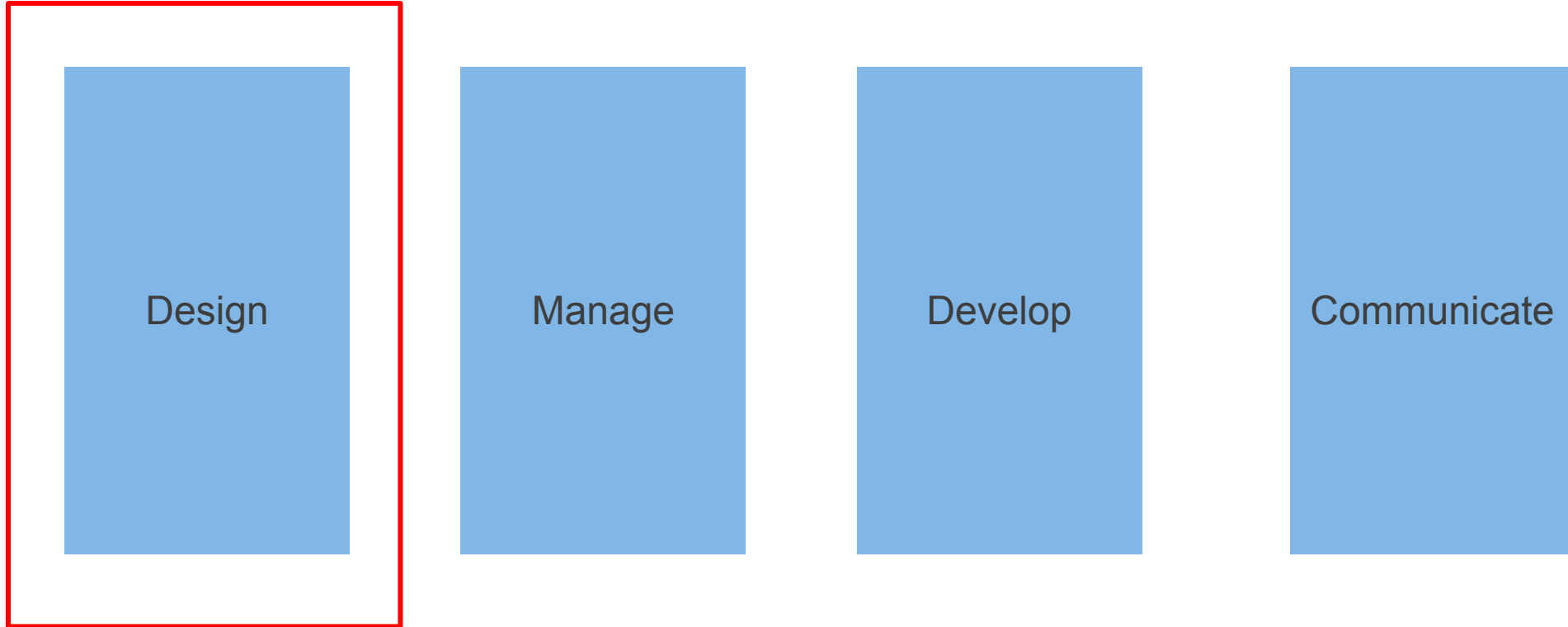


**Politecnico
di Torino**



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European Laboratory for Learning and Intelligent Systems

Pillars





Knowledge tools

- Persona canvas
- Functional diagram



Persona canvas

There are plenty of different canvases that can be reconducted to the topic of personal elicitation

BUYER PERSONA CANVAS www.garyfox.co

profile image

Persona name

Title

Segment

Roles

Reports to

Industry

PERSONAL INSIGHTS

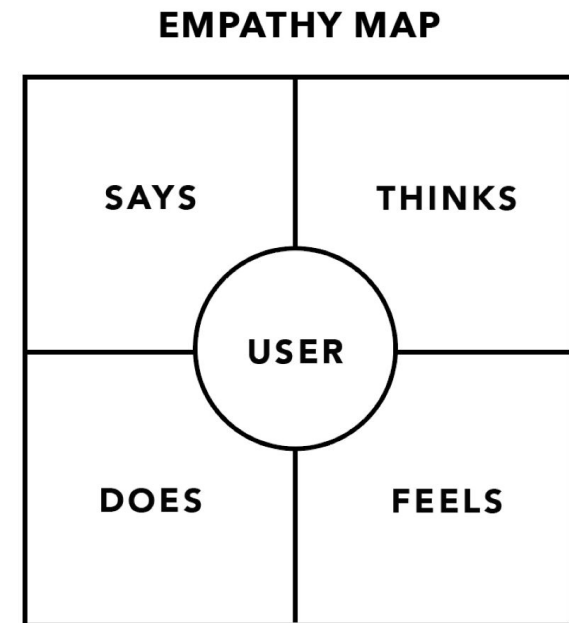
RESPONSIBILITIES

MOTIVATIONS

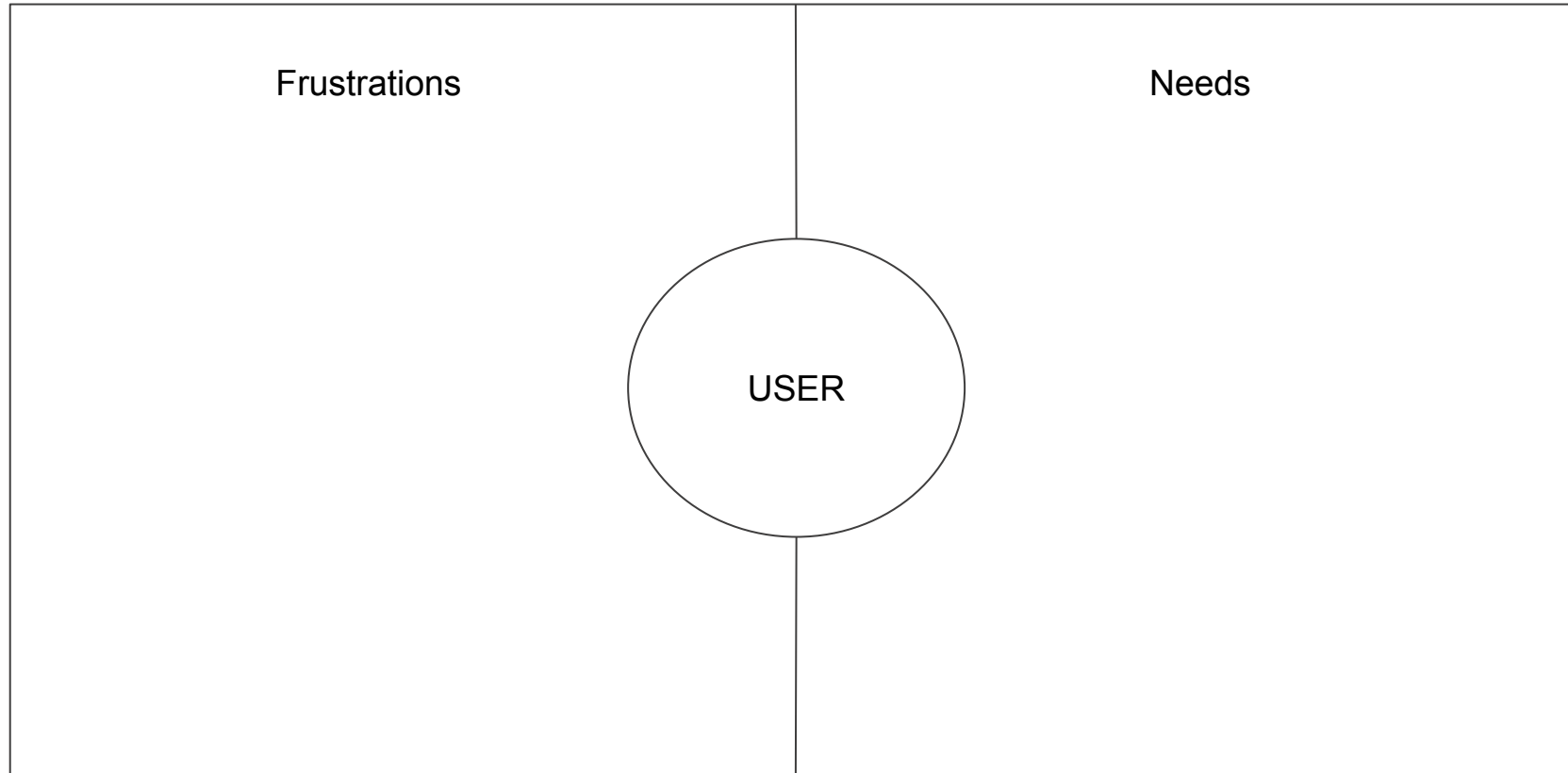
TOP 3 GOALS

PROBLEM SPACE

TOP 3 PROBLEMS



Persona canvas



This is a simplified version that can be used for this course



Toy example

Didi is the owner of a restaurant in the city centre of Turin

She is keen to listen to all customers to improve her service

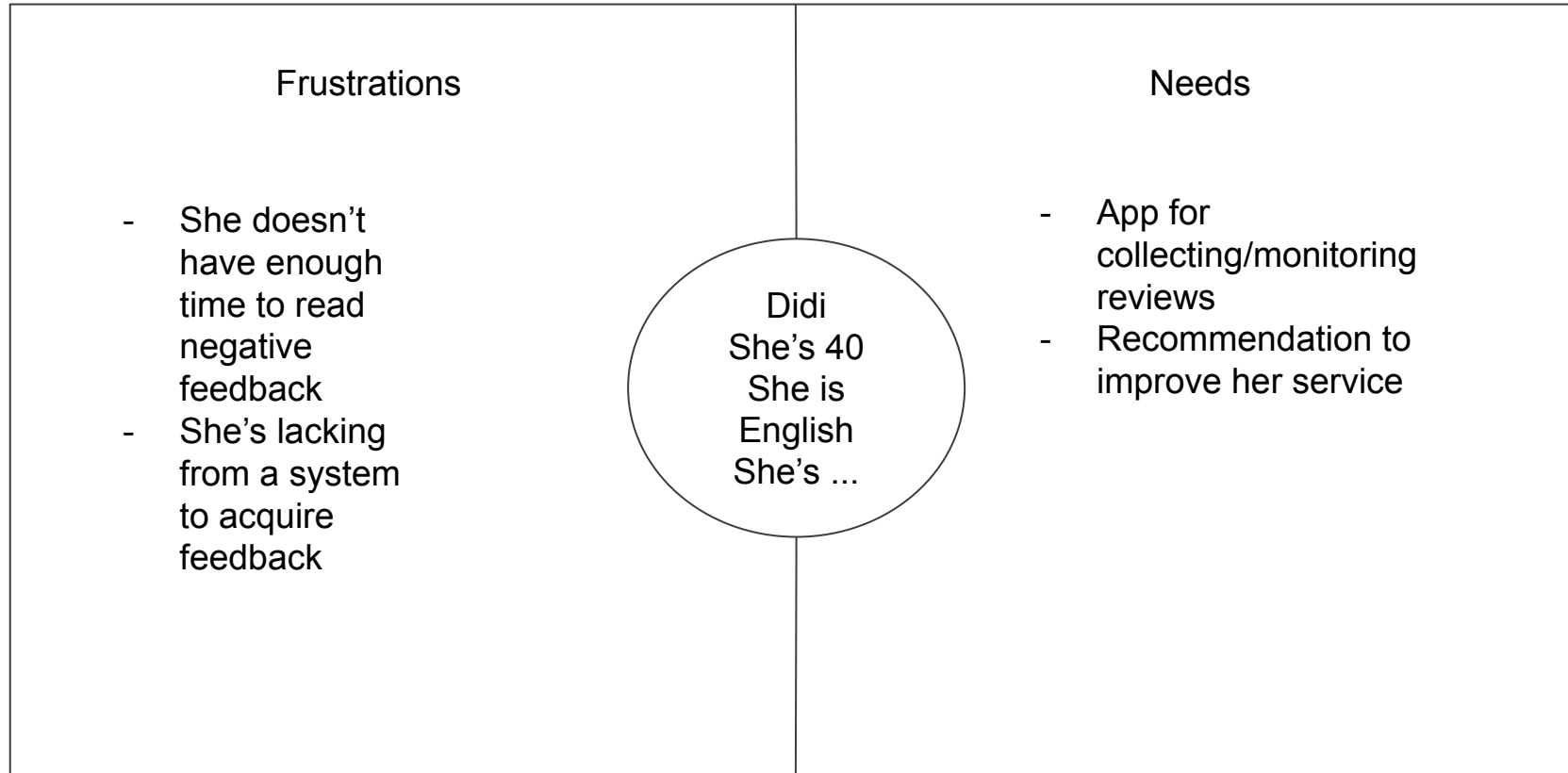
She has numerous customers passing by daily. Most of them utilize social media platforms to share their experiences, such as Tripadvisor, significantly

An enormous amount of reviews are shared daily and she struggles to keep up reading the negative feedback

She needs a tool to select the negative feedback

Didi's Persona canvas

Hands on





App for editing

A canvas can be shared with collaborators

A workshop session of the entire team is necessary to shape the canvas to reflect the needs of each

Some sharing platforms suitable for the need: Google Slides and Office 365



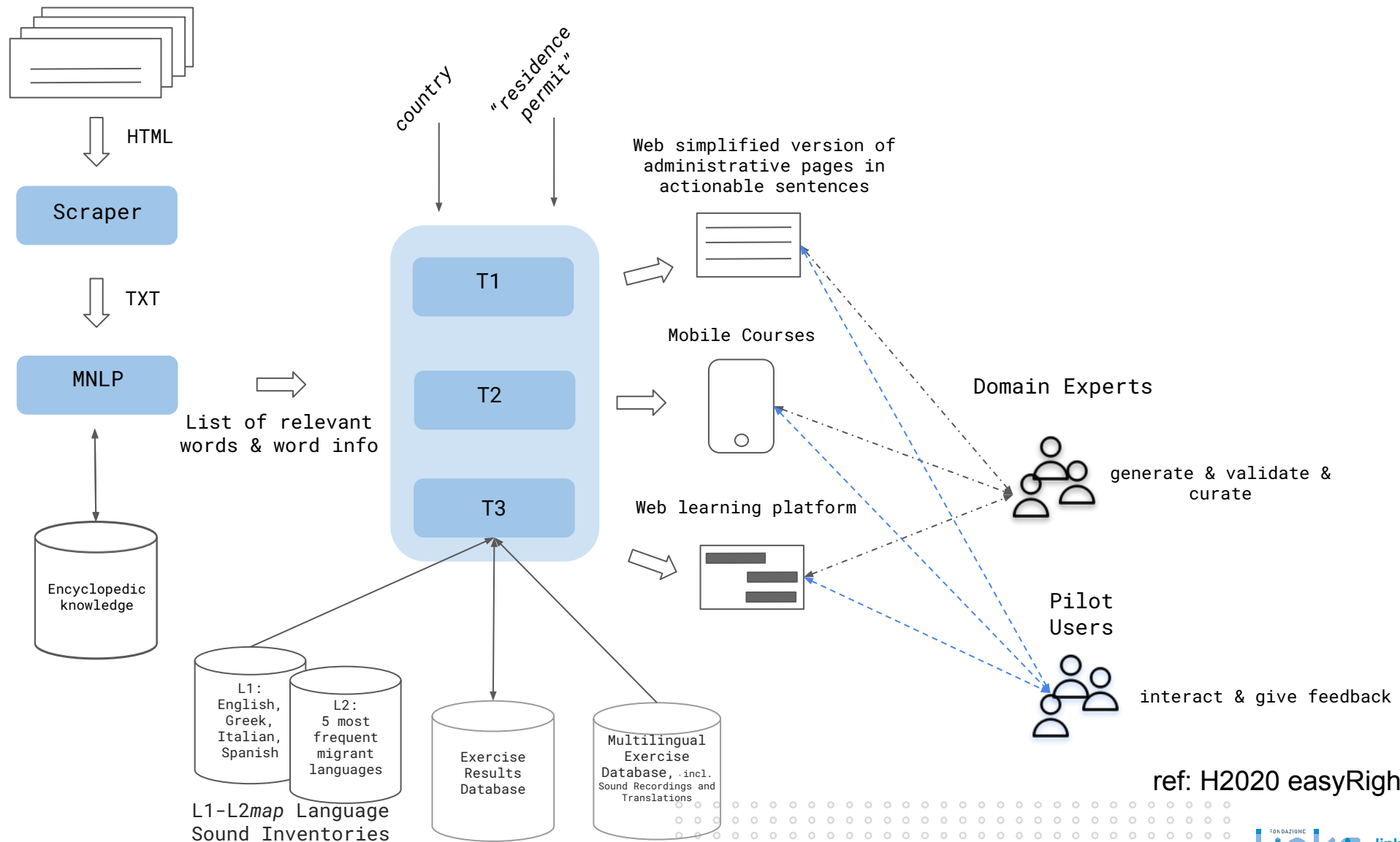
Functional Diagram

It describes the functions, links and interplay of the whole system (either be a project or a software)

Note of styles:

- functions or software components are represented by blocks
- input and output elements of a block represented with arrows lines
- relationships among functions are labeled with text
- stakeholders (such as users) are illustrated with icons

Example



ref: H2020 easyRights project

App for editing

Numerous digital tools available to create a functional diagram (many are collaborative)

In this course, we will use <https://www.diagrams.net>

- it is available both as online application running in a browser and as desktop application
- it can be utilized with a free license
- it synchronises with GDrive, OneDrive, other cloud services and locally

Diagram of Didi's tool

Hands on

Diagram of the whole project

Represent the target user (Didi's, owner of the restaurant)

Represent the data source

Add (at least) one block to define the machine intelligence that computes the sentiment

Represent the output

Diagram of the software

Represent the input text

Represent the classifier

- represent the vectorization
- represent the classification

Represent the output



Diagram of Didi's project

Whole project

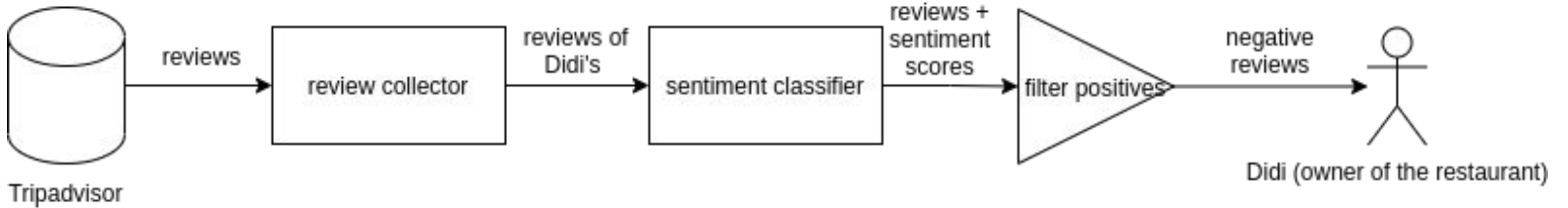
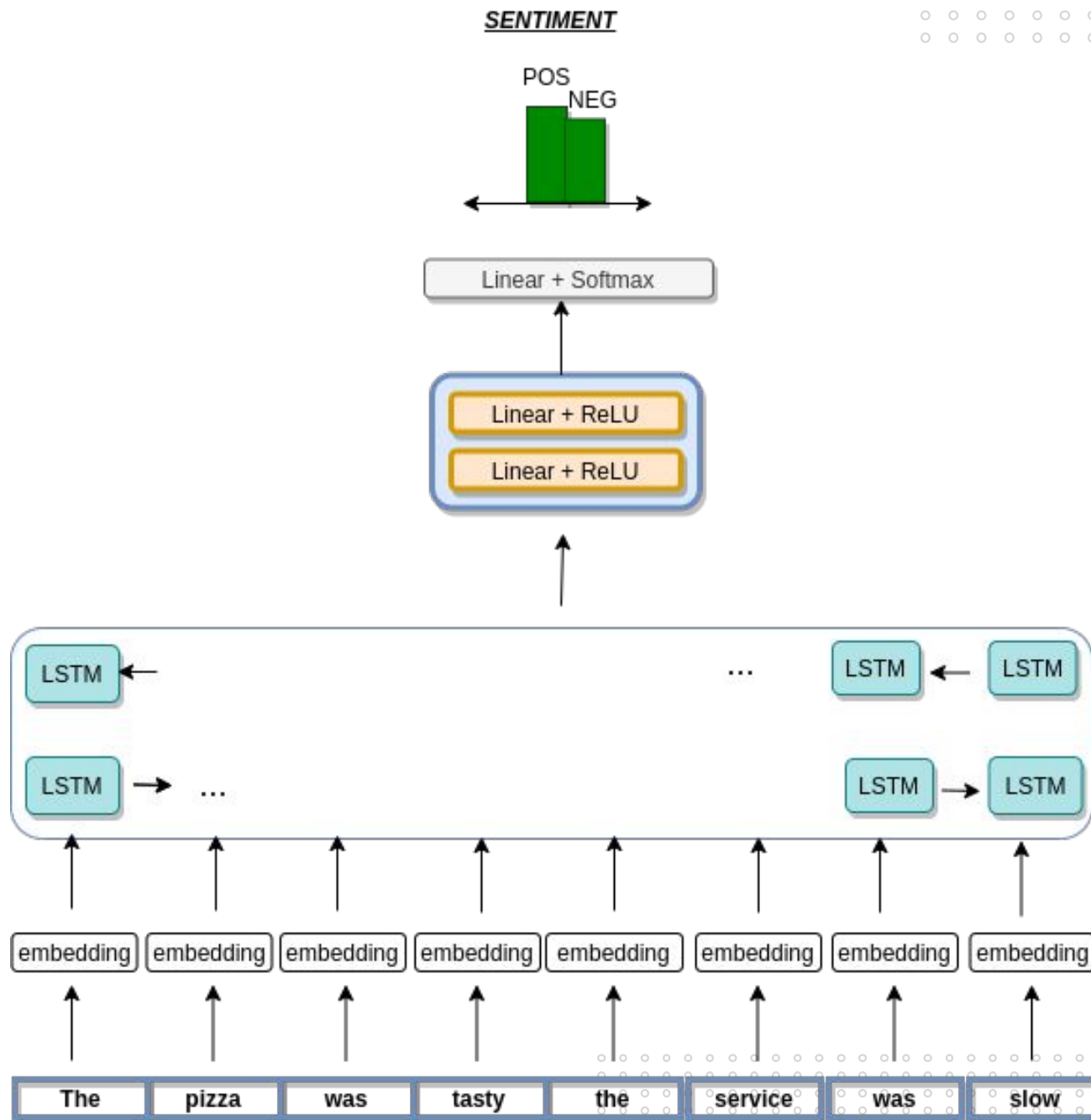


Diagram of the sentiment classifier

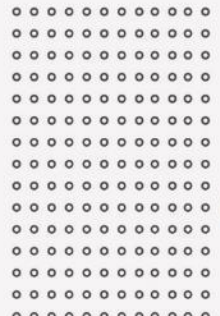
Software





Thank you for your attention.

Questions?



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