

# DBL: an information system to manage survey-based studies

Francesco Galbiati



Slides here

July 26th 2024

NECST Research Line Fair Event

# About me



Francesco Galbiati

## Degree Program



Master's degree in Computer Science and Engineering  
1<sup>st</sup> year

## Research Topics



Databases

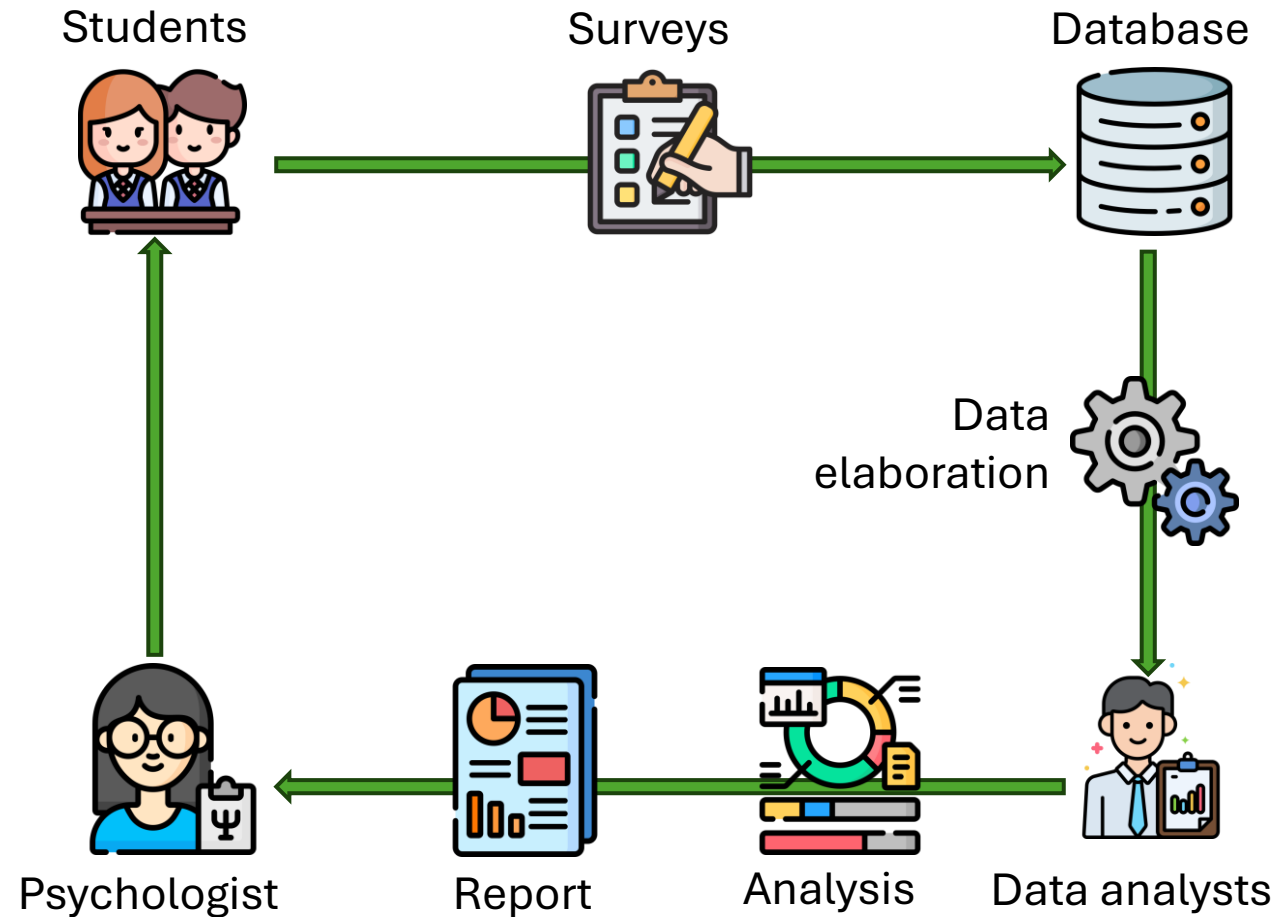


Information System Technology

# Context

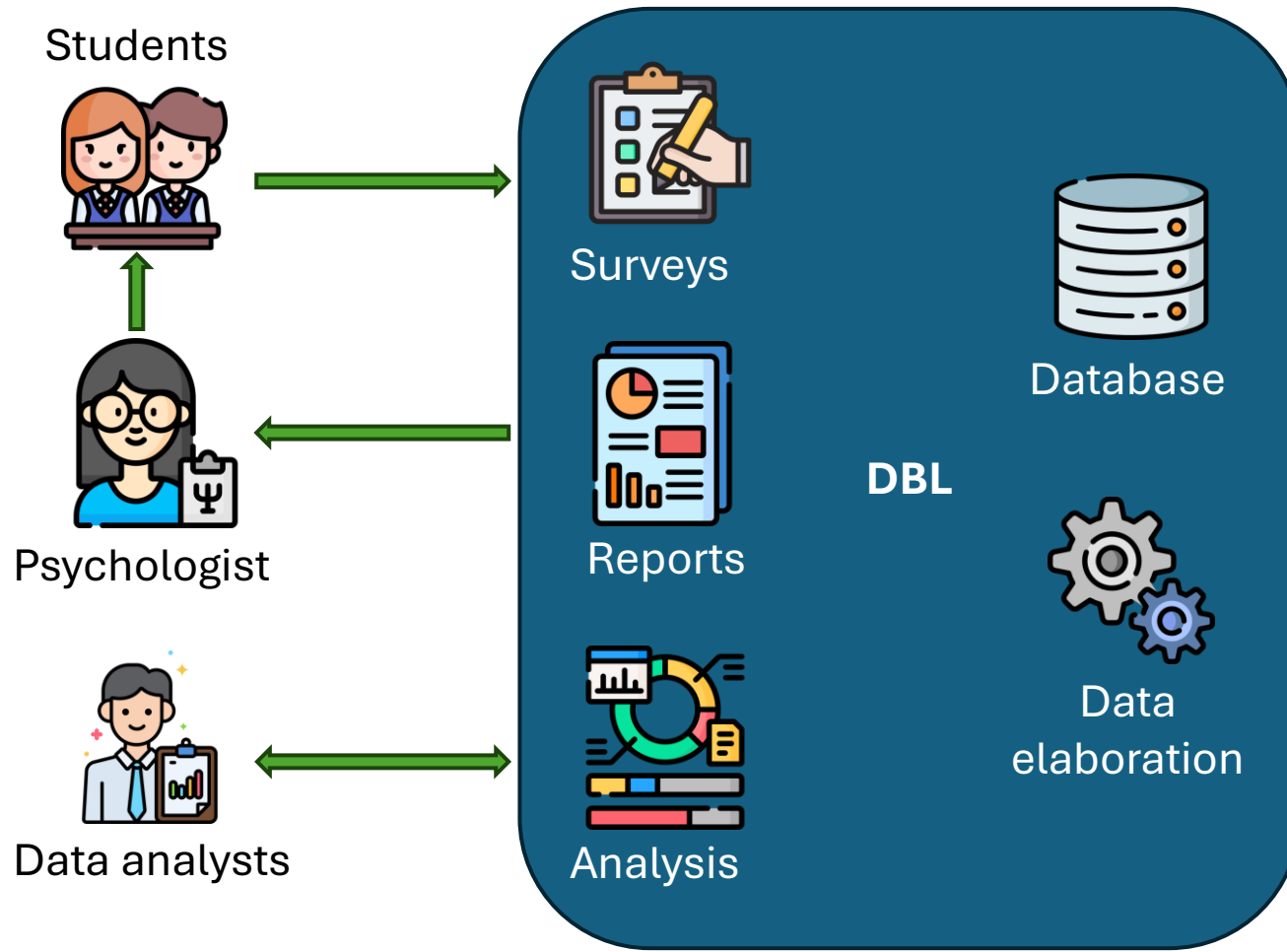
- «Personal Awareness and University Career»
- Questionnaires proposed to the students every semester
- Data are analyzed and returned to the students

# Current Methodology and Problems



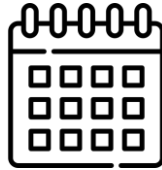
- Slow-moving process (semi-automatic or manual tasks)
- Data compatibility problems (different actors use different tools)
- Low scalability

# Solution



- Faster process (many tasks are automatic)
- No compatibility problems (everyone uses the same platform)
- More privacy for the students
- High scalability

# DBL



1st module deployed  
In September 2024



Hosted on DEIB's  
servers

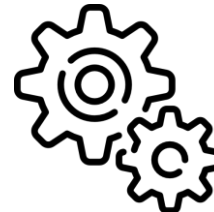
## System architecture

Presentation Layer



Bootstrap 5 interfaces

Application Layer



PHP Serve-side scripts

Data Layer



MySQL Database

# DBL

## WELCOME FRANCESCO

This is your DBL dashboard

Below you will find all your active surveys

### Your surveys

#### MINDSET-8

Expires: 26 July 2024    Type: psychological

[Complete survey](#)

#### University Career

Expires: 3 July 2024    Type: university career

Already completed

# DBL

## UNIVERSITY CAREER

Personal awareness and university career: A NECSTCamp study

Current degree program



Bachelor's degree program



Master's degree program

How many semesters have you attended at Politecnico di Milano so far, including the current one?

4

Degree Program

Degree Program...

Architectural Design

Building and Construction Engineering

Urban Planning: Cities, Environment & Landscapes

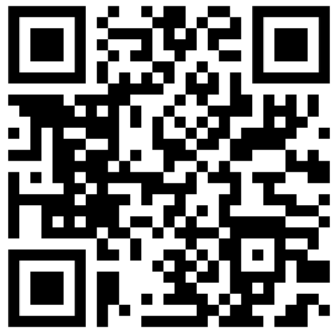


# Future Developments

- Development and deployment of the analysis features
- DBL will be able to:
  - Expand «Personal Awareness and University Career» to a wider audience
  - Host other survey-based studies

# Thank you for your attention

Francesco Galbiati - [francesco4.galbiati@mail.polimi.it]



Slides here

July 26th 2024

NECST Research Line Fair Event