



## Introduction

The aim of this project is to develop a matching module to bridge students with academic and industrial based supervisors to guide the students to carrying out their final year projects in their field of interest. In this work we propose a web-based tool named as Y-Bridge.

This proposed system contains two types of dictionaries for the matching purpose one includes subject related keywords used in academia and another one includes technologies related keywords used in industries. Students' queries received as input by the system is then segmented line-by-line and thereafter segmented by word-by-word. Finally removing grammar and punctuation marks, the filtered keywords are stored into another dictionary. The stored keywords are then compared with those two dictionaries. Based on the frequency counts of the keyword matching the system suggests academics and industrial based supervisors.

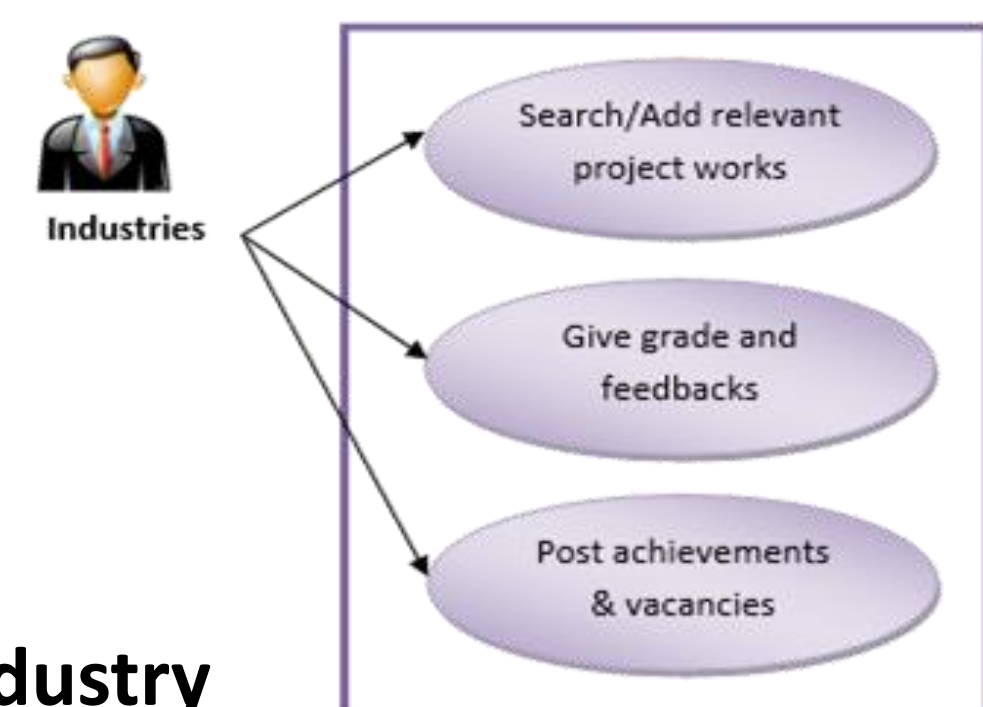
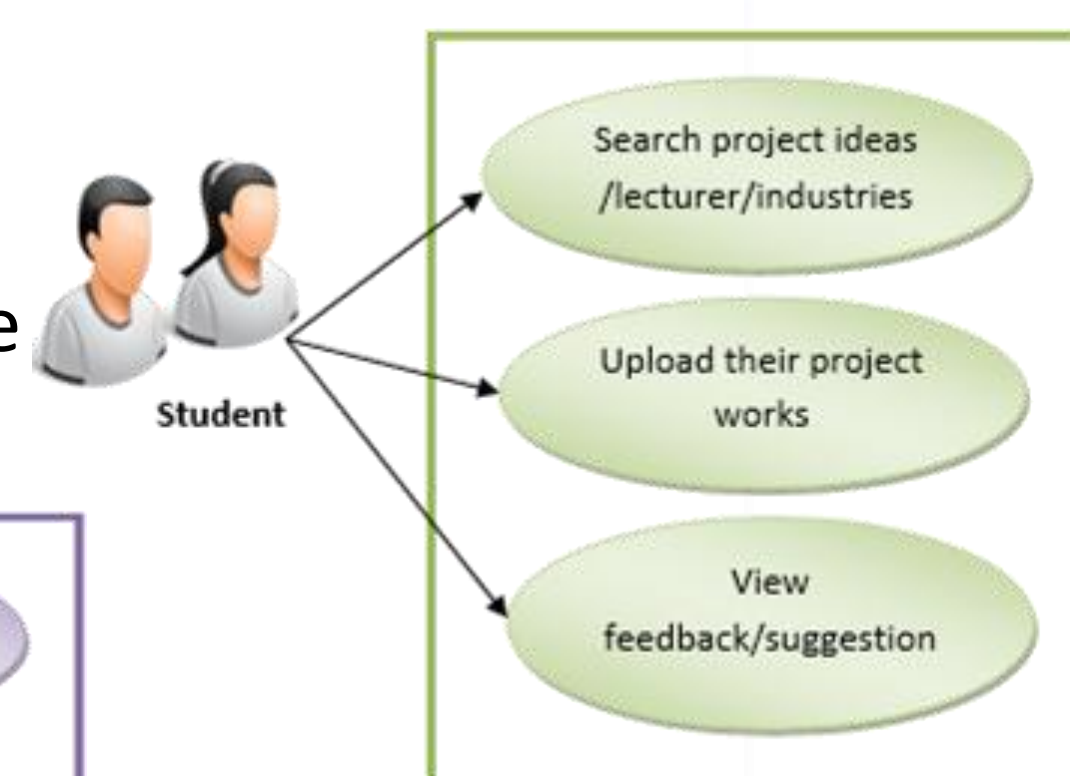
## Objectives

To bridge the transitional gap in undergraduate students to industries.

## Challenges

### Students

- Finding an interesting research topic.
- Finding a suitable place for internship.
- Finding potential supervisors, both in the academia and industry.

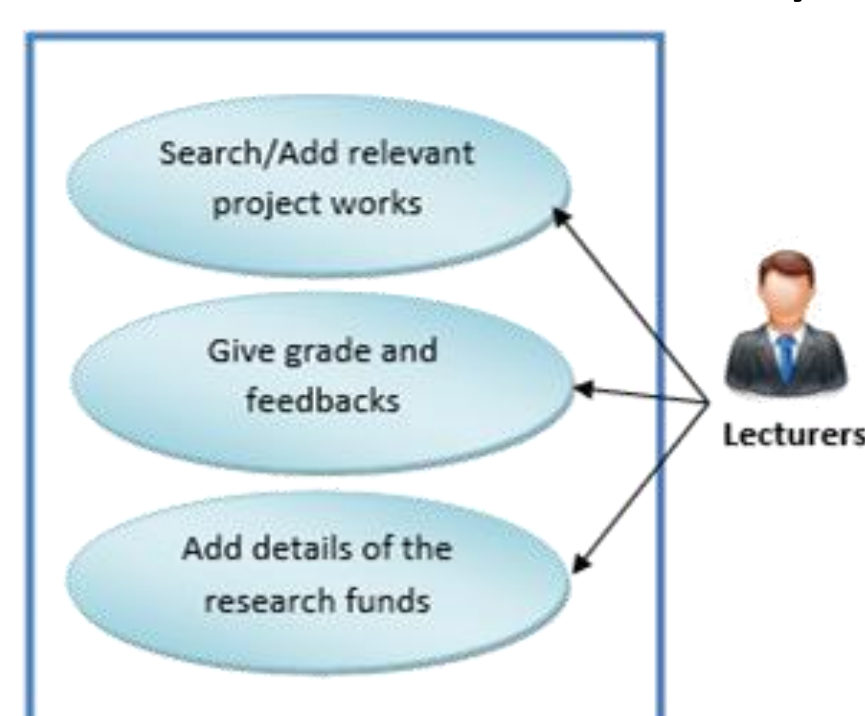


### Supervisor in Industry

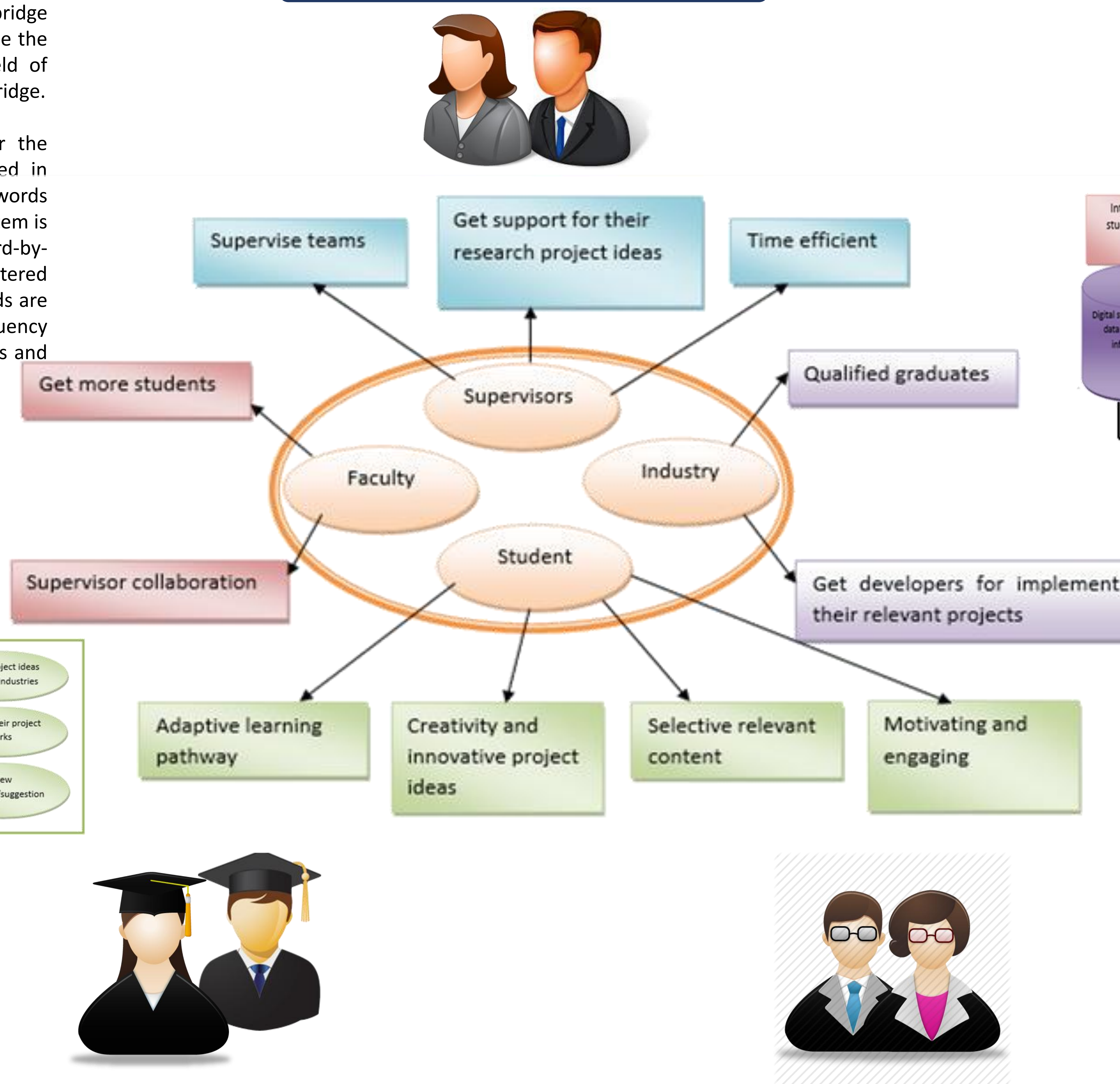
- Identifying potential students with the required knowledge skills.
- Hiring skilled software professionals to undertake a mini project is expensive.
- Need to spend more time and money to promote themselves among the university community.

### Supervisor in University

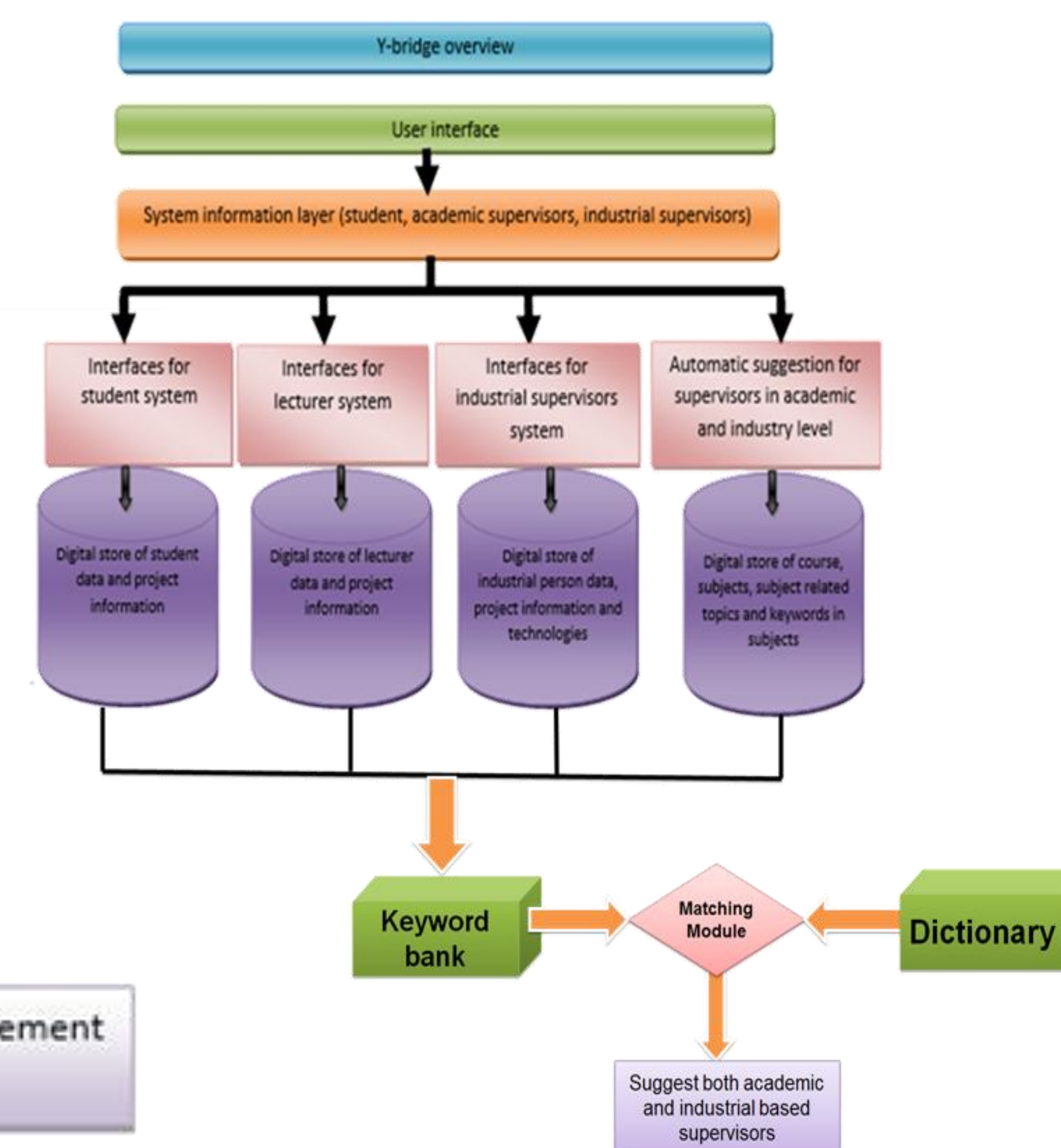
- Difficulty in monitoring individual student contribution in a group project.
- Do not have a clear idea about the requirements of stakeholders to undertake industry based research projects.



## Overview



## Methodology



## Related tools/Services

### • CSC Partner Network

The CSC Partner Network system is developed by the University of Moratuwa. It helps organizations to grow with an effective affiliation with the Department of Computer Science and Engineering at University of Moratuwa.

### • Campus Direct Link

Campus Direct Link, an initiative by SLASSCOM to bring together the Academia, the corporate sector of IT and BPM industries. It is essence works as an idea bank

## Uniqueness in Y-Bridge

• This system suggests that lecturers or industrial persons for the project based on the keyword selection.

• Y-bridge receives keywords from lecturers and industrial person during their registration process based on their interested research area or technologies that are available in the industry.

• It has the potential to bridge the gap between the university and industries by making the supervision process transparent and collaboratively with academic and business supervisors working in teams

## Outcomes

- Obtain innovative project ideas.
- Find a suitable place for internship.
- Remote supervision.
- Keeping track of the progress of a project.
- Produce project deliverables in an effective way.
- Manage, plan and schedule project works.
- Get an exposure to the industry.
- Obtain necessary skills required for industry-based projects.

## Future work

- Include internship based process carrying out both academic and industrial level.
- Include report, forum, mailing modules for monitor and carry out project progress.

## References

- <http://pn.cses.lk/>
- <http://www.campusdirectlink.com/>