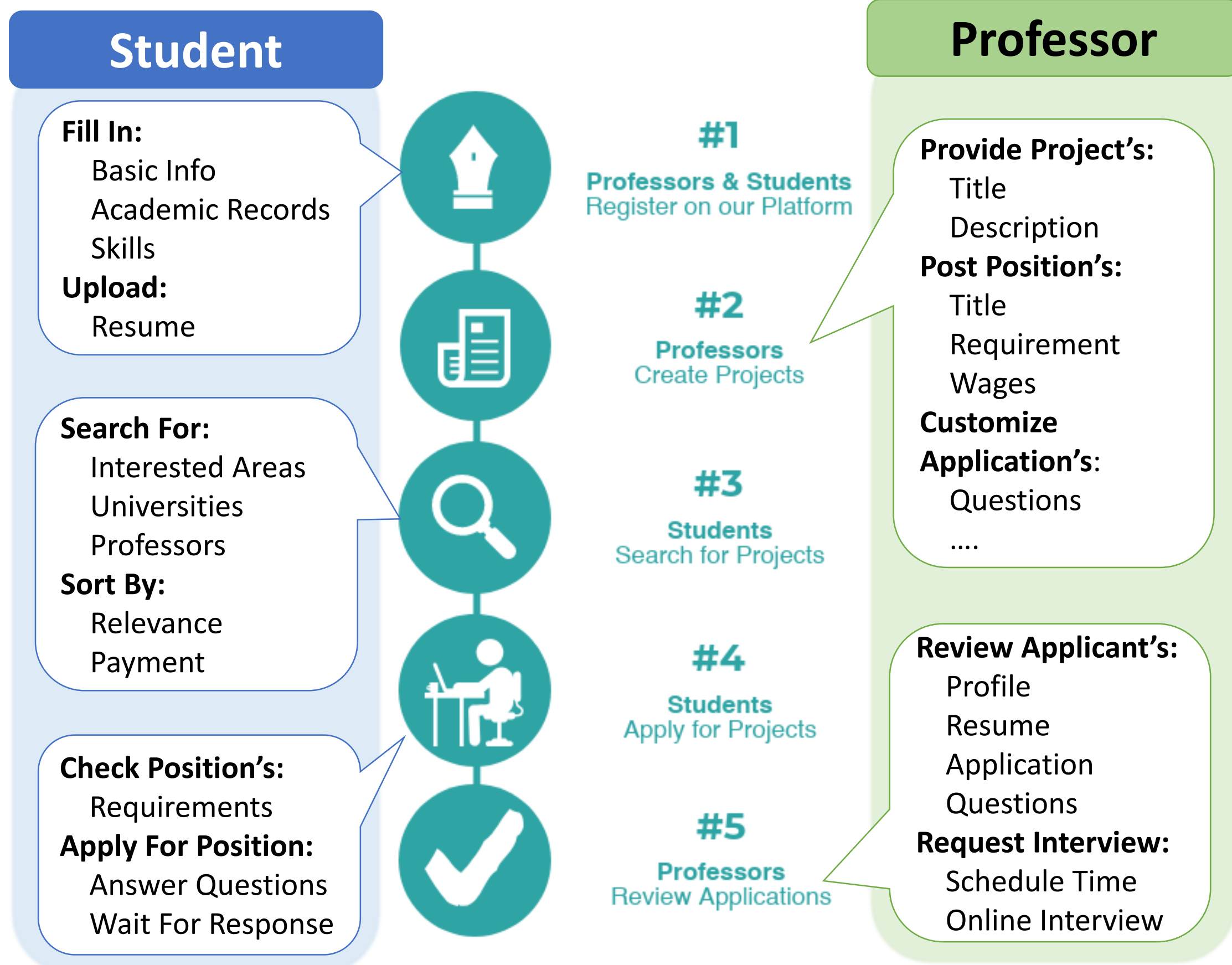


Abstract

ReSearch aims to provide a one-stop platform for students to search for research opportunities provided by professors.

Main Workflow and Key Features



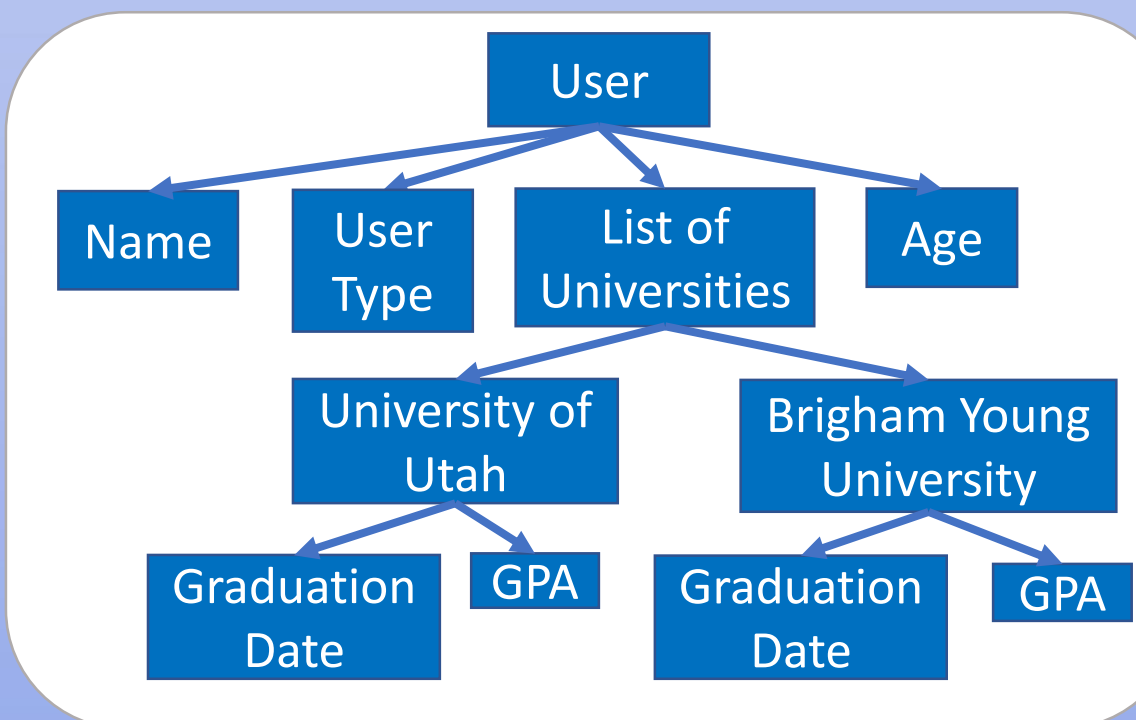
Generic and Expandable Backend

Component Driven Model

All Objects are constructed with different components. These components actual define the objects' meanings and behaviors.
Two Benefits:
[1] Simple to expand during in the early developing process and future.
[2] Could be serialized and deserialized easily for data transmissions.

Object:
List of Attribute Components
List of Associated Object

Types of Components:
Text Component {... Name, Value, ...}
Number Component {... Name, Value, ...}
Container Component {...Name, List of Child Components...}



Configuration:
Name: Value

String Value
Attributes:
ObjType: Proj
UserType: Stu
UsrName: Jake
ProjName:

CranioRate
wage: 21/hr
...

Number Value
Attributes:
id : 02045
age: 28
gpa: 3.5
salary: 2000
...

This tree structure could be converted to json back and forth very easily

Entity-Attribute-Value Database

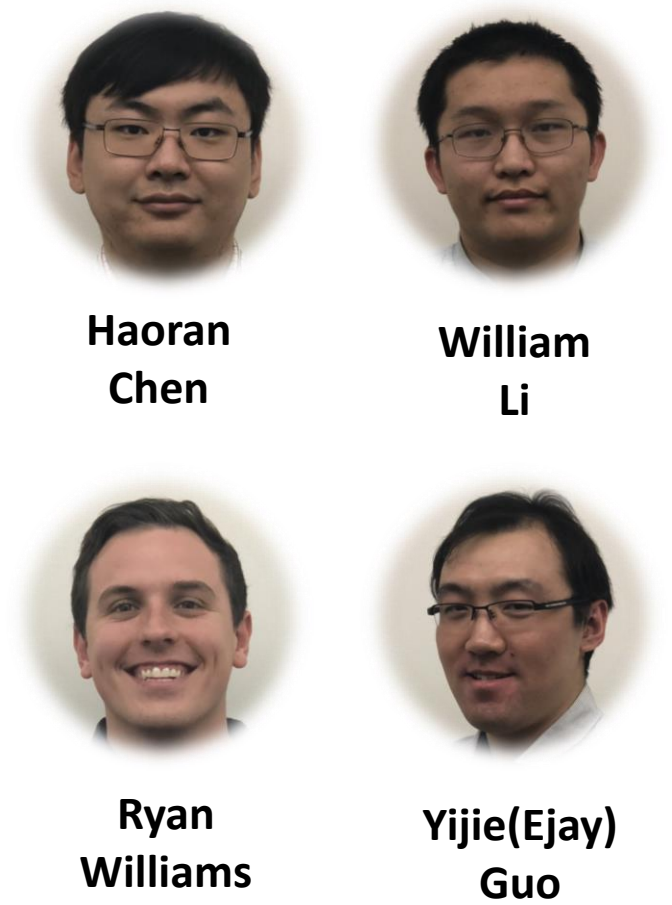
User_ID	Auth0_ID	Attr_ID	ValType	Attr_Name(Str)
...	...	1	Text	Gen_Name
12	A0_ID_AAA	2	Number	Gen_Age
...	...	3	Number	Stu_GPA
34	A0_ID_BBB	4	Number	Prof_Salary
...	...	5	Text	Gen_Office
...	...	6	Text	Gen_Major
...	...	7	Text	Gen_UsrType
...	...	8	Boolean	Gen_Delete

User_ID	Attr_ID	Number Value
12	2	30
34	2	26
34	4	6000
12	3	3.9

User_ID	Attr_ID	Boolean Value
12	8	True

User_ID	Attr_ID	String Value
12	1	John Smith
34	1	B
34	6	SE
12	6	CS
12	5	MEB2176
12	7	Prof
34	7	Stu
34	5	WEB2235

Monkey Engineers

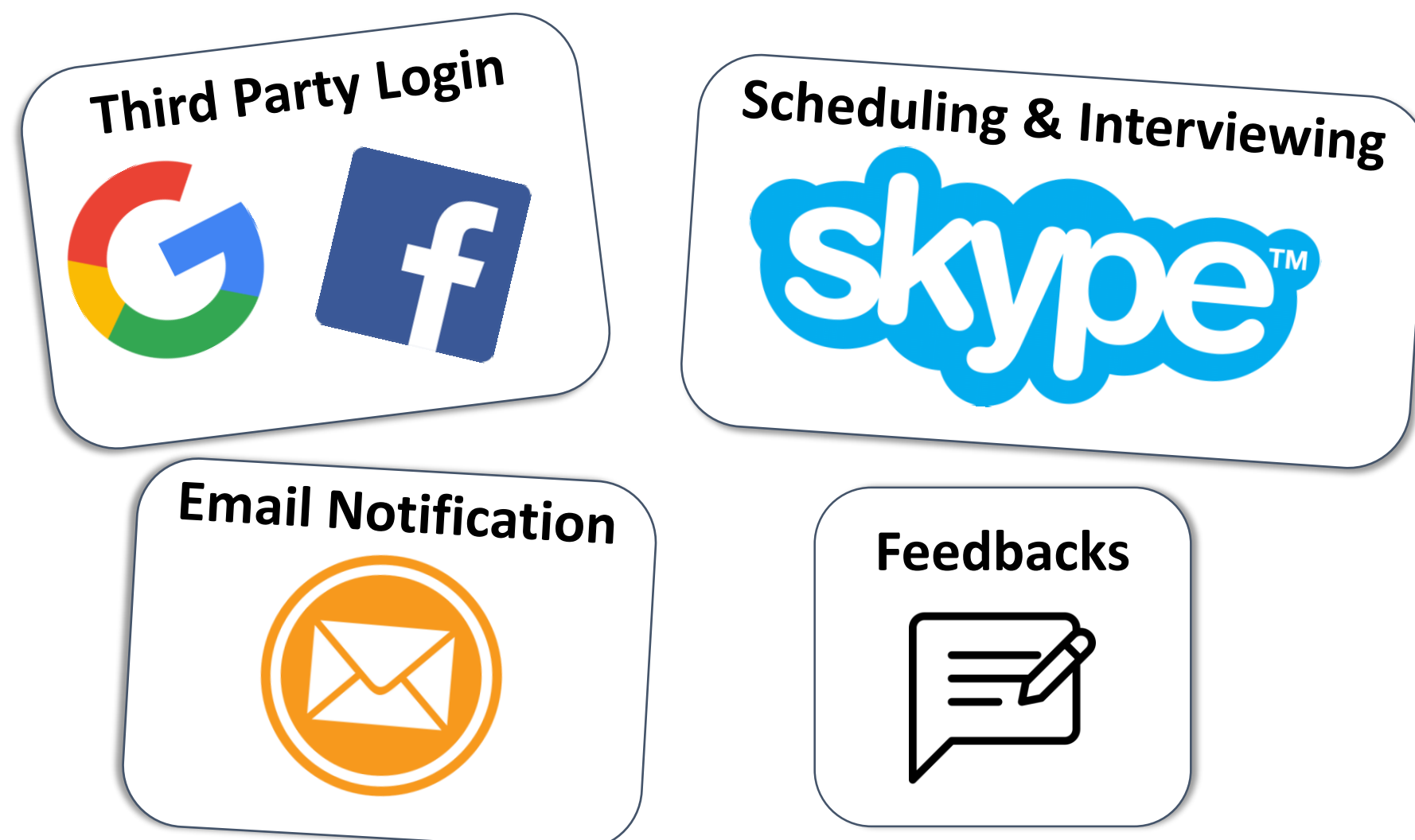


Sponsor



Prof. Ladislav Kavan

Other Key Features



Responsive Frontend Frame & Style

