



1.Correlation analysis of educational resources (faculty and courses) and student employment

Dashboard designed for university administrators

- 1.1 Graduate Employment Competitiveness Score (GECS)
- 1.2 Relevance between GECS and Faculty
- 1.3 Relevance between GECS and Courses
- 1.4 Relevance between GECS and Academic Performance

2. University Education Quality Scoring Methodology

Dashboard designed for applicants

- 2.1 Faculty-to-student ratio
- 2.2% of faculty with PhD and above
- 2.3 Total number of papers
- 2.4 Mean GECS
- 2.5 Mean Tuition



Correlation analysis of educational resources (faculty and courses) and student employment

Dashboard designed for university administrators



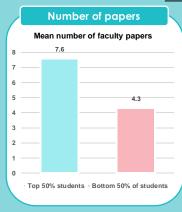
Correlation analysis of educational resources (faculty and courses) and student employment

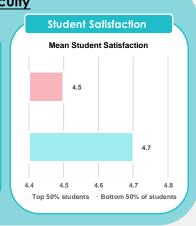
—Dashboards designed for university administrators

Graduate Employment Competitiveness Score (GECS)

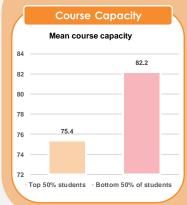
Ranking	Score	Student ID	Employment or not (10%)	Employer Reputation (40%)	Salary (30%)	Promotion or not (20%)
1	97	0010001	Yes	Top 100	55w\$/y	Yes
2	94	0035435	Yes	Top 100	45w\$/y	Yes
100	0	0034253	No	None	0	No

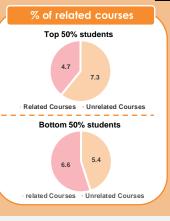
Relevance between GECS and Faculty % of educational background Top 50% students Postdoctoral PhD Maste Bottom 50% students 2.1 1.2 Postdoctoral PhD

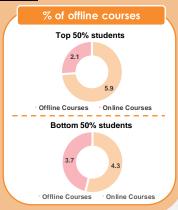




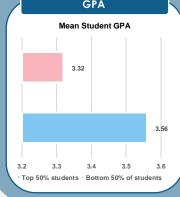
Relevance between GECS and Courses

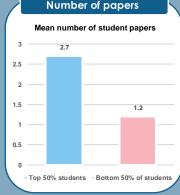


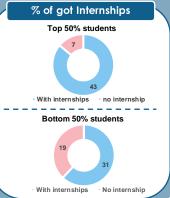














Graduate Employment Competitiveness Score (GECS)

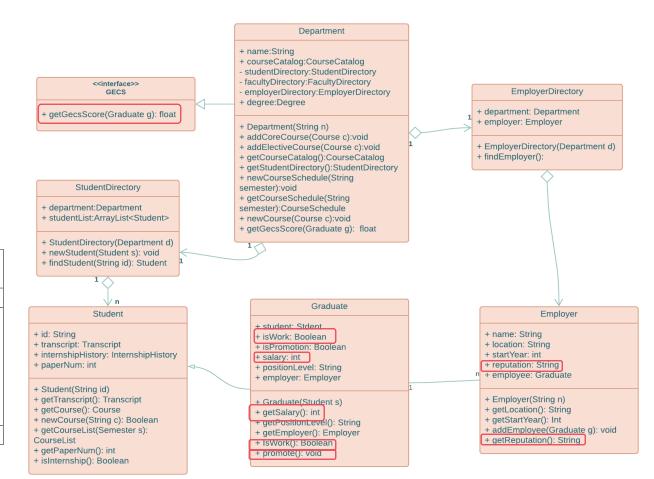
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Scoring Criteria									
Employment or not		Employer Reputation		Salary		Promotion or not			
Yes	100	Top100	100	>=50w\$/y	100	Yes	100		
		Top200	95	>=40w\$/y	95				
		Top300	90	>=30w\$/y	85				
		Top400	85	>=20w\$/y	75				
		Top500	80	>=10w\$/y	65				
		500+	75	<10w\$/y	60				
No				0		•	•		

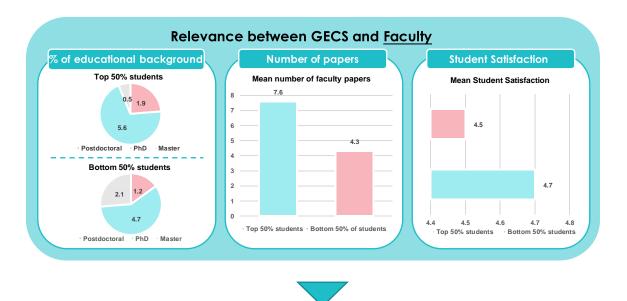
GECS = Employment or not $\times 10\%$ + Employer Reputation $\times 40\%$

+ Salary \times 30% + Promotion or not \times 20%

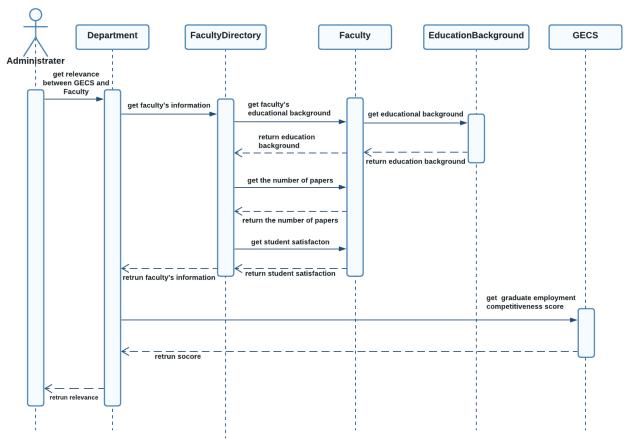




Relevance between GECS and Faculty



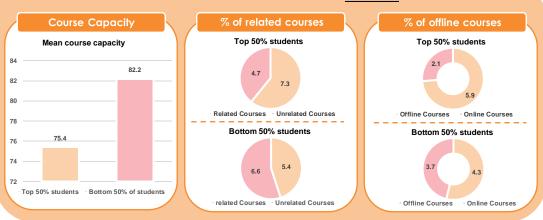
- Students are divided into two parts by the top 50% and bottom 50% of the GECS ranking.
- Show the difference between all of their teaching faculty in terms of percentage of Ph.D. and above, mean number of papers, and mean student satisfaction.



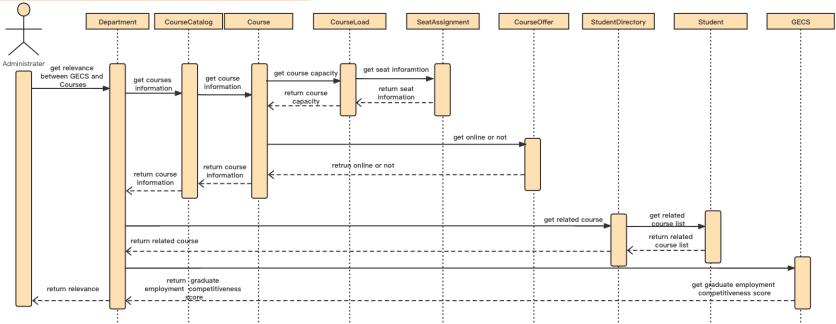


Relevance between GECS and Courses

Relevance between GECS and Courses

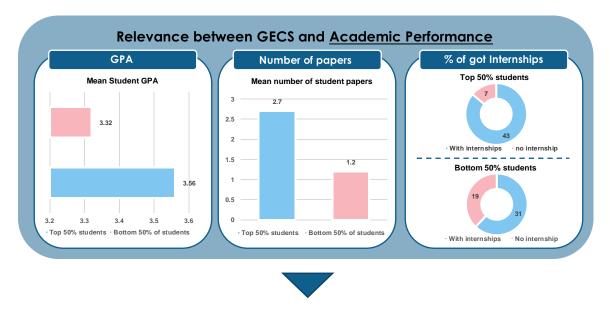


- Students are divided into two parts by the top 50% and bottom 50% of the GECS ranking.
- Show the difference between all their courses in terms of <u>mean</u>
 course capacity, <u>percentage of relevant courses</u>, and <u>percentage</u>
 of offline courses.

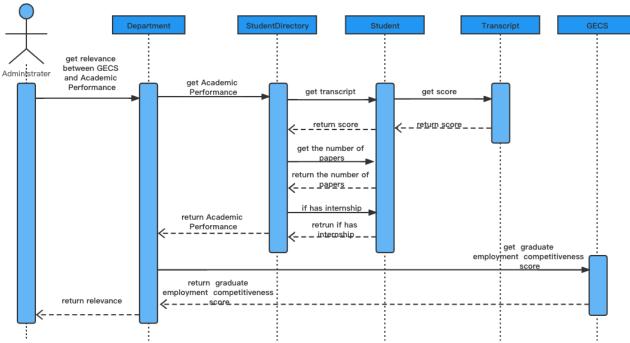




Relevance between GECS and Academic Performance



- Students are divided into two parts by the top 50% and bottom 50% of the GECS ranking.
- Show the difference in their <u>mean GPA</u>, <u>mean number of papers</u>, and <u>percentage of got internships</u>.





University Education Quality Scoring Methodology

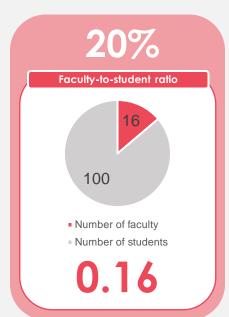
Dashboard designed for applicants

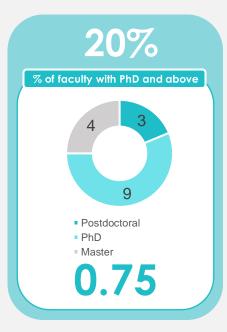


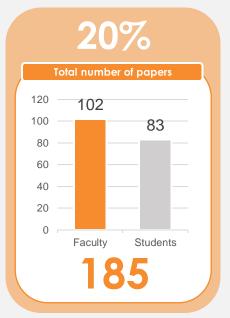
University Education Quality Scoring Methodology

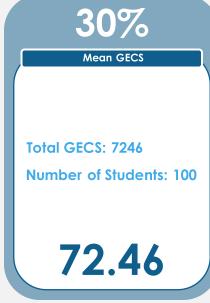
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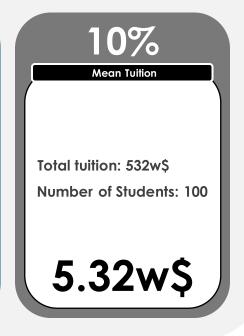
Education Quality Score of XXX University: 84











Scoring Criteria							
Individual score	Faculty-to- student ratio	% of faculty with PhD and above	Total number of papers	Mean GECS	Mean Tuition		
100	>=0.25	>=0.85	>=300	>=80	<=4w\$		
90	>=0.20	>=0.80	>=250	>=75	<=5w\$		
80	>=0.15	>=0.75	>=200	>=70	<=6w\$		
70	>=0.10	>=0.70	>=150	>=65	<=7w\$		
60	< 0.10	< 0.70	<150	<65	>7w\$		

Education Quality Score = Faculty-to-student ratio × 20%

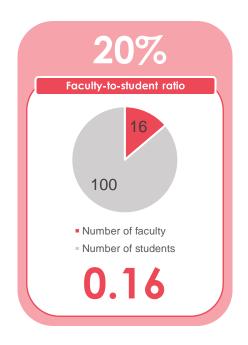
+ % of faculty with PhD and above \times 20%

+ Total number of papers × 20%

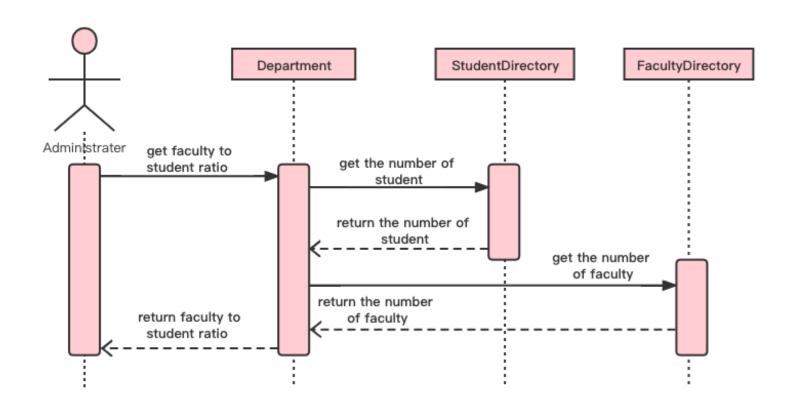
+ Mean GECS × 30%



Faculty-to-student ratio

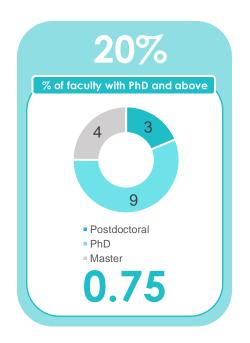


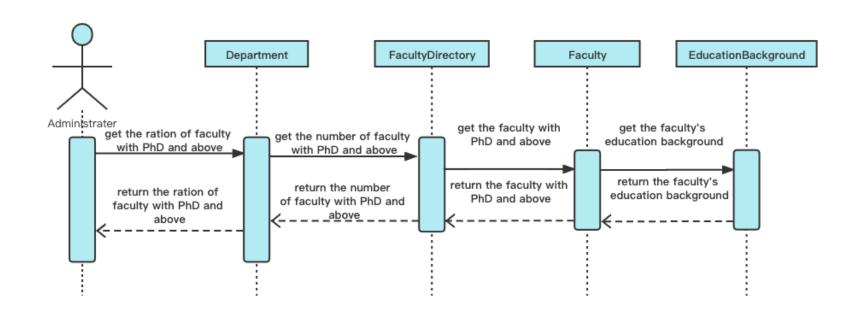
Faculty-to-student ratio = $\frac{Number\ of\ faculty}{Number\ of\ students}$





% of faculty with PhD and above

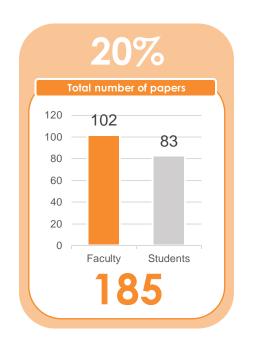


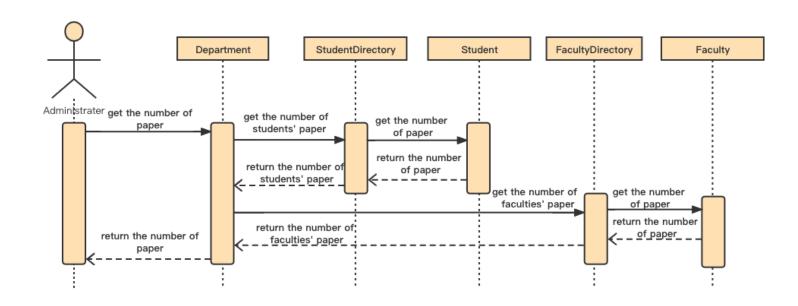


% of faculty with PhD and above = $\frac{Number\ of\ Postdoctoral + Number\ of\ PhD}{Number\ of\ faculty}$



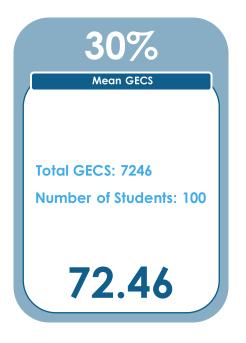
Total number of papers



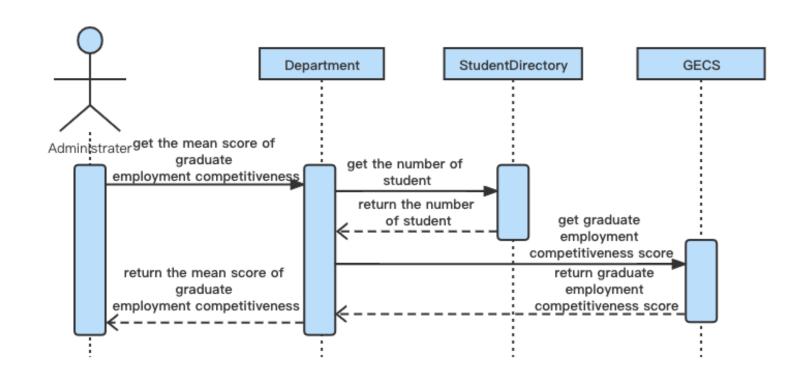


Total number of papers = *Number of student papers* + *Number of faculty papers*



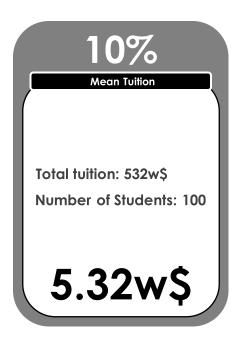


Mean GECS =
$$\frac{Total \ GECS}{Number \ of \ Students}$$





Mean Tuition



$$Mean Tuition = \frac{Total \ tuition}{Number \ of \ Students}$$

