

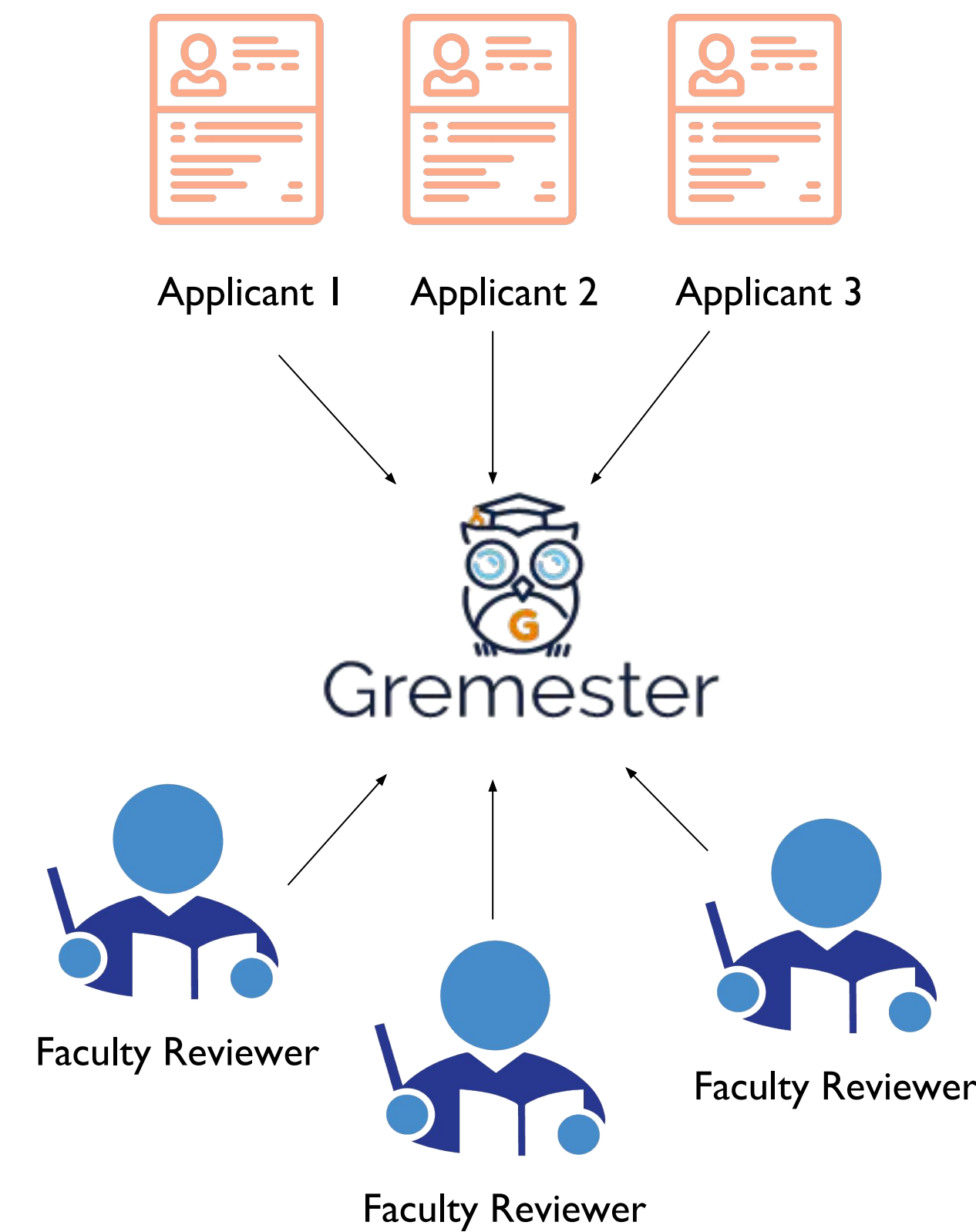
Gremester: A Graduate School Application Interface



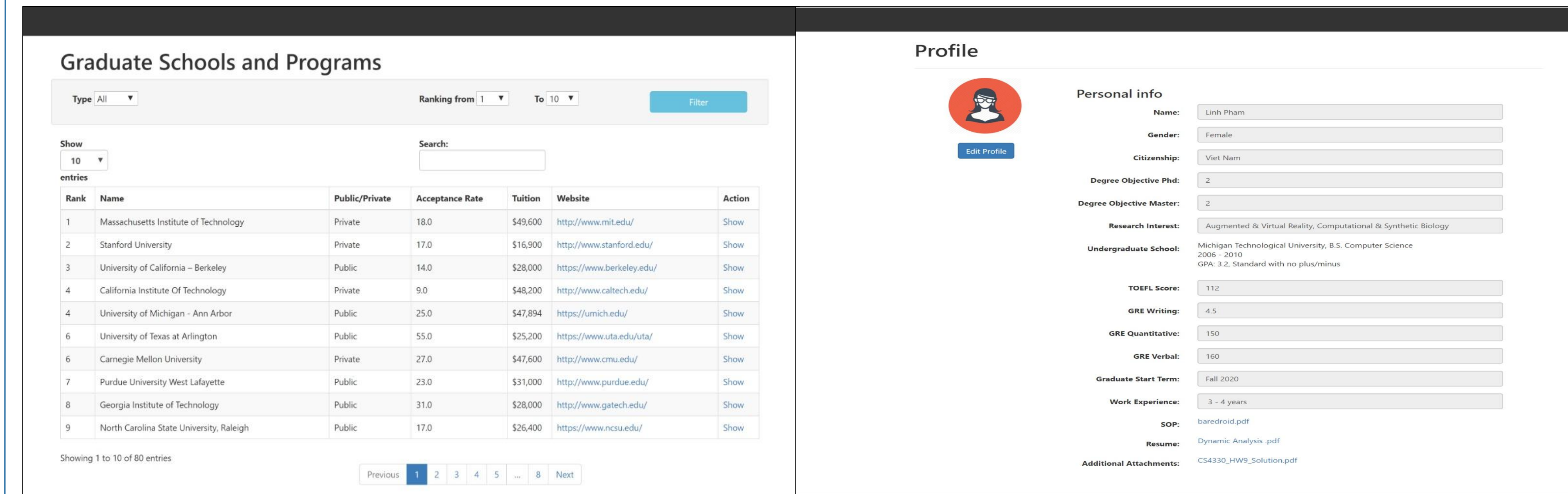
Linh Pham, Julia Chaloupka, Harsha Pitawela, Avanti Deshmukh
Software Engineering Project (ECE:5830) Spring 2019

Introduction

Gremester is a web-based collaborative platform for prospective graduate students and university faculty members during the admission process. Gremester was created to streamline the workflow of the admission process. The app helps students maintain all their academic records used to apply to graduate school in one portal. Gremester is also useful for faculty members who do not have a web-based system for the application review process. In one platform, faculties can evaluate student profiles and record their evaluations.



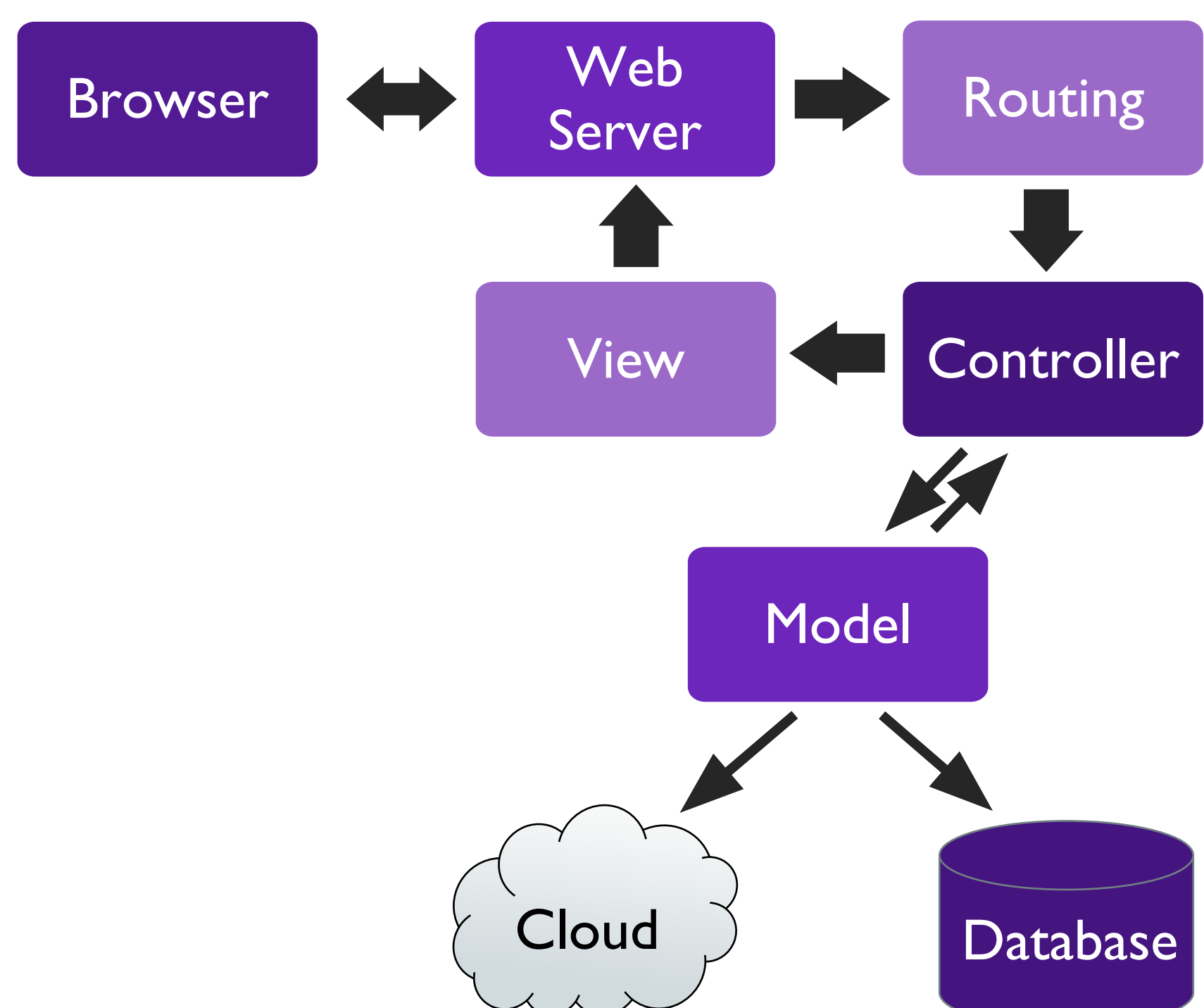
User Interface:



Student Landing Page

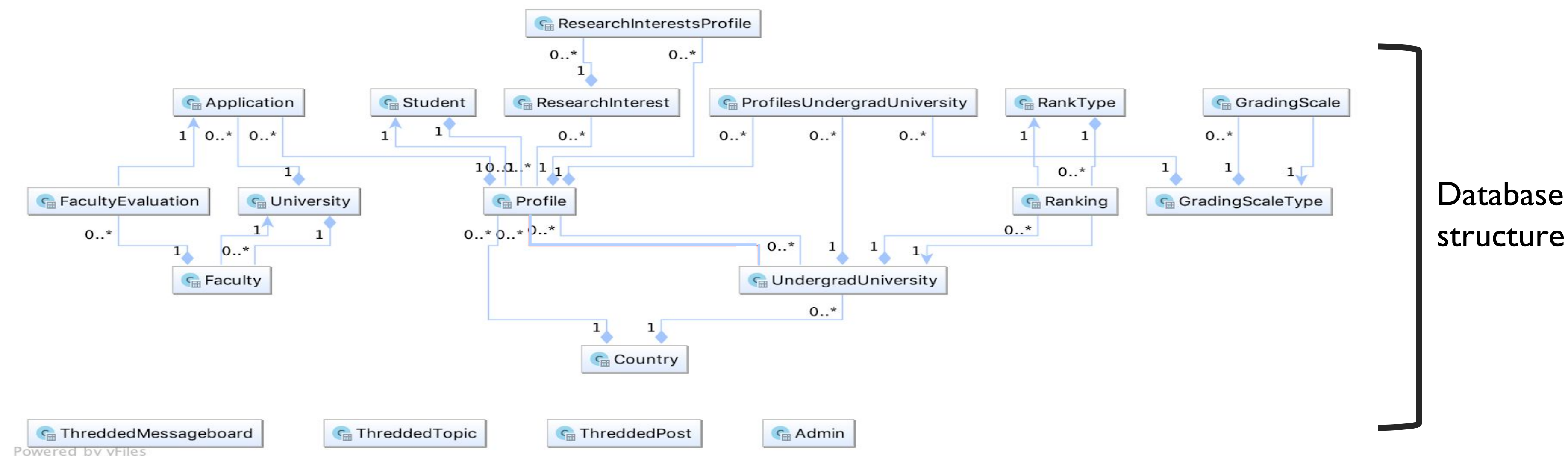
Student Profile View

Architecture



Features

- Create student profile with personal info
- Look up details about top 100 US graduate schools
- Add potential graduate universities to students profile
- Prediction of students' chance of admission to any university
- Discussion forum for students
- Filtering of potential student applications by faculty
- Faculty evaluation of student applications
- View undergraduate university location using Google Maps
- Administrator interface for website maintenance



My Applications

University Name	Applied Date	Admit Date	Reject Date	Interested Term/Year	Delete Application	Edit Application
University of Iowa	03/14/2019			Fall 2019		
Arizona State University	03/07/2019			Fall 2019		
Iowa State University	03/12/2019			Fall 2019		

University Name	Application Status	Date	Interested Term	Interested Year	Delete	Save
<input type="text" value="select un"/>	<input type="text" value="select status"/>	<input type="text" value="mm/dd/yyyy"/>	<input type="text" value="select term"/>	<input type="text" value="select year"/>	<input type="button" value="Delete"/>	<input type="button" value="Save"/>

Student Applications View

Calculate Admission Chance

University Name	Admission Category	Admission Chance
<input type="text" value="select university"/>	<input type="button" value="Calculate"/>	
Arizona State University	Target	71%
California Institute Of Technology	Dream	3%
Colorado State University	Safety	93%
Iowa State University	Target	57%
University of Iowa	Target	54%

University Admission Predictor

Application Review for julia chaloupka

Applicant Score

-- Score --

EE Background

-- EE Background --

Comments

Faculty Application Evaluation

Name	Past Education	Research Area	GPA	GRECO	GREW	MS/PhD
Harsha Pitawela	University of Iowa	Artificial Intelligence, Augmented & Virtual Reality, Data Science	3.98	164	146	0/0
Dwayne Wade	University of California - Berkeley	Artificial Intelligence, Data Management & Visualization, Fabrication	2.5	164	146	0/4
Kevin Durant	University of Texas at Arlington	Artificial Intelligence, Molecular Information Systems	4.0	164	146	4/2
Tim Duncan	Georgia Institute of Technology	Artificial Intelligence, Ubiquitous Computing	2.1	164	146	1/3

Faculty Dashboard

Testing

- Code Coverage:
 - Ruby on Rails: 98.14%
 - JavaScript: 81%

Methodologies

- Agile/Scrum Practices
- Behavior-Driven Development
- Test-Driven Development

Acknowledgement

We would like to thank our external product owner, Prof. Hans Johnson, and Niharika Annira (GCP student representative) for all the help throughout the semester

Technology & Tools



Future Direction

- Add additional privacy settings for users
- Extend the application's capabilities to other graduate programs outside of computer science/engineering
- Add a chat messenger for students
- Complete additional performance testing
- Get other graduate programs on board to start using Gremester