

VIP Senior Project, 2017, Summer
ASI PantherCentric

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Problem

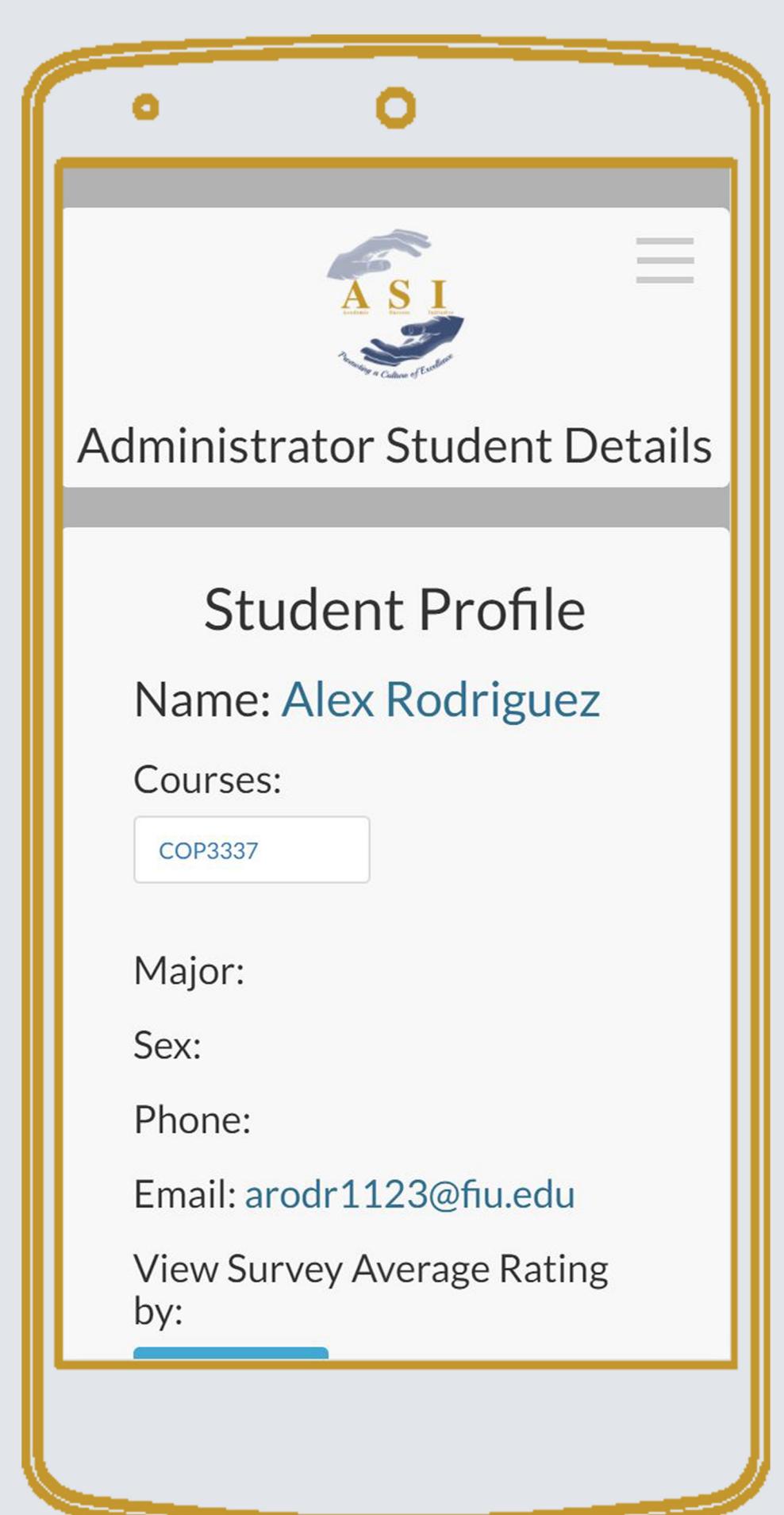
- Director of ASI seeks a centralized display of data that evaluates the success of students using tutoring service.
- Director needs to determine the state of usability of current web application was suitable for attracting and retaining new potential users.

Solution

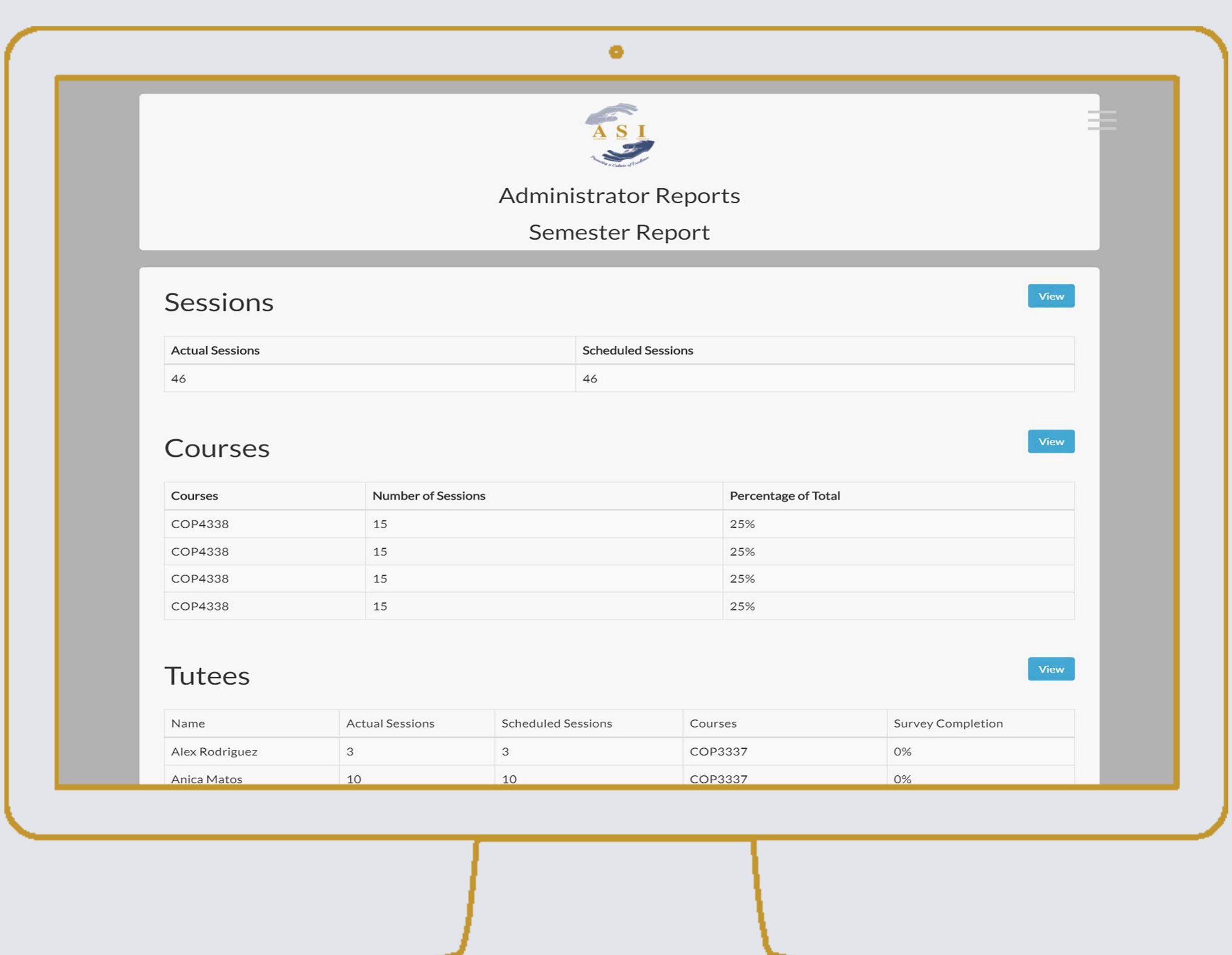
- Provide an administrative dashboard which contains all key metrics for evaluating individual and overall success of the program.
- Provide new users an updated user interface to enhance their ability to register and apply for tutoring with great ease of use.

Current System

- Reports for summary of semester are manually created.
- Application currently does not provide a dashboard to obtain key metrics to evaluate.
- System UI provides non-responsive interface, primarily for desktop.



Screenshots



Requirements

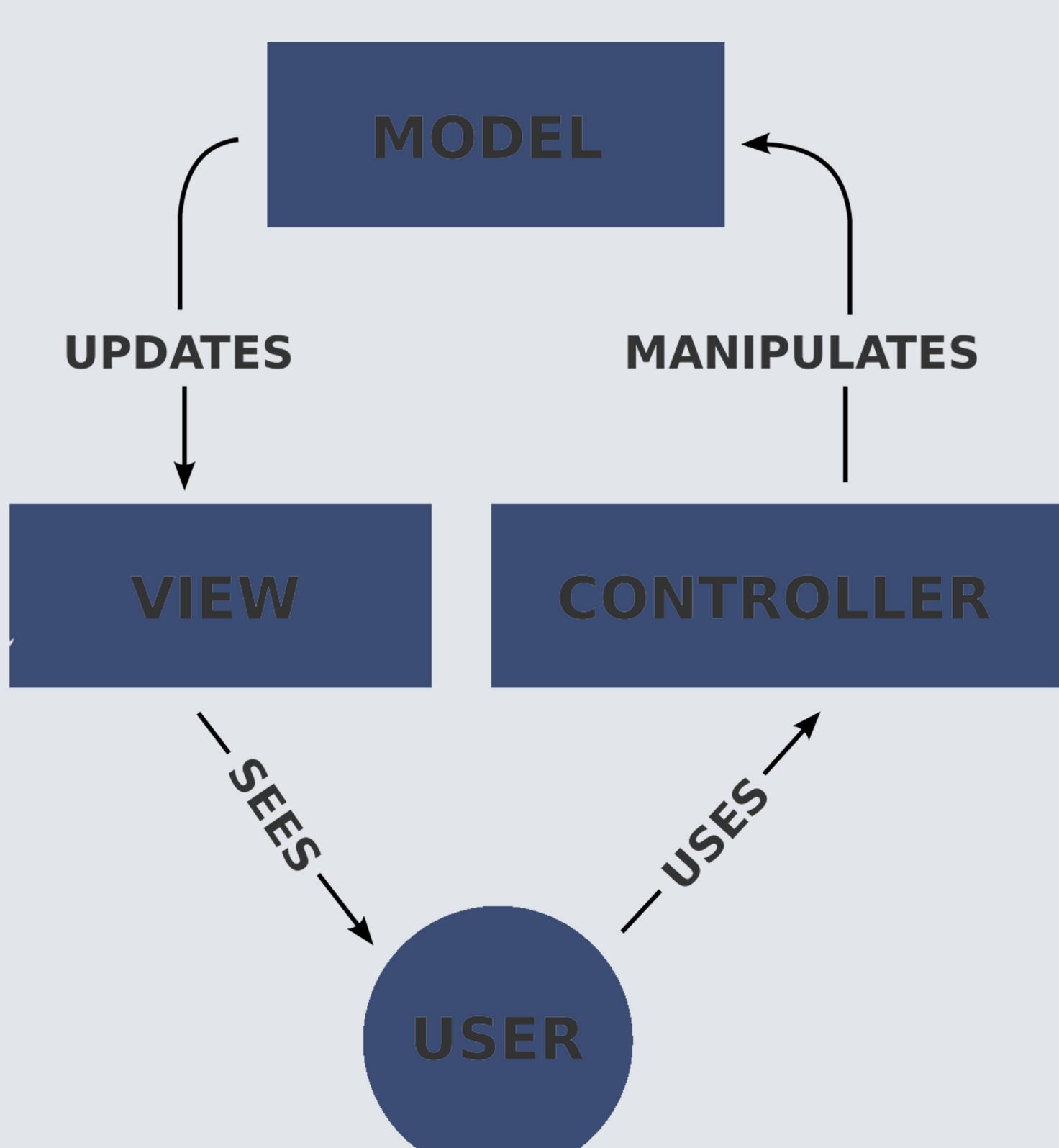
Functional Requirements:

- View detailed student information
- View the drop down menu for the survey by course
- Show number of actual and scheduled sessions

Non-Functional Requirements:

- Change main page buttons UI
- Change register for courses UI
- Change header for user UI

System Design



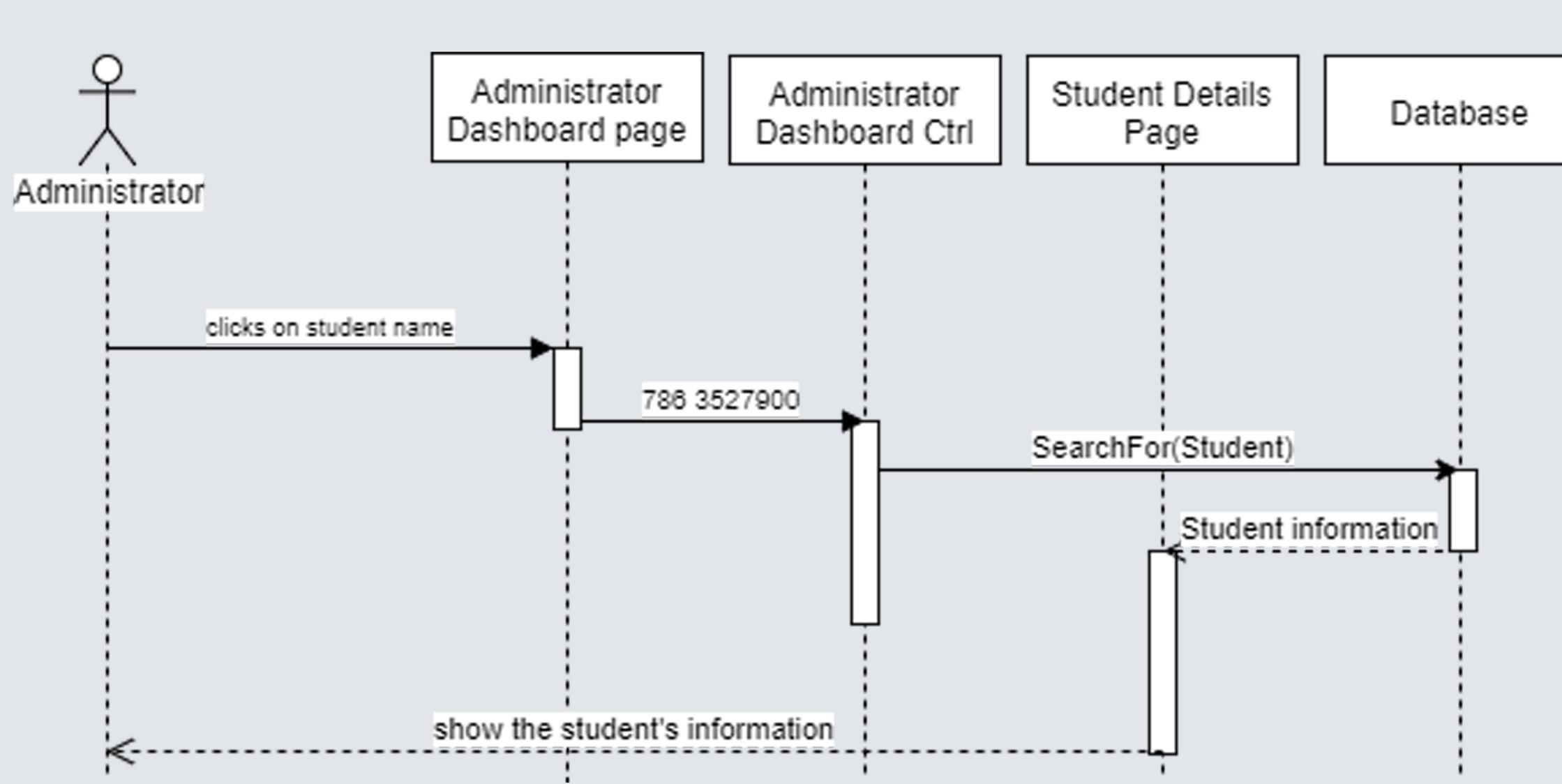
Implementation

ASI PantherCentric is developed with:
 Database PostgresSQL
 Backend Docker
 Django Framework
 Built on Python
 Programming Language
 Frontend HTML5, CSS3
 JQuery,
 Bootstrap Framework

Verification

Test Case: View Scheduled and actual sessions in current semester
Purpose: Test that the table only show Scheduled and actual sessions in the current semester
Preconditions: At least one session must be scheduled in the semester
Action: Selenium runs tables views
Expected Results: Selenium asserts true values against test

Object Design



Summary

ASI PantherCentric is essentially a tutoring scheduling system. It has been developed in a way that could evolve into a repository of important data metrics. This could greatly help to improve their services and achieve academic success for their students. Implementation along with research, is the first step in improving this platform.

Acknowledgement

I would like to thank Alfredo Santoyo, Rolando Moreno, and Jake Lopez for their continuous support for this project. I would like to thank Myrian Herlle for her input and feedback during the making of the project. Last but not least, I would like to thank Dr. Francisco Ortega for guidance on how to improve ASI PantherCentric and Dr. Masoud Sadjadi, our instructor, for leading and giving us this platform to explore our creativity and inventions.