



## INSTRUCTOR-COURSE ASSIGNMENT

every year instructors have to be assigned to the courses that they will teach for a certain semester

## THE CURRENT SOLUTION

an excel spreadsheet is being used to manage instructor-course assignments

## AS WE ALL KNOW...

excel can be a pain in the neck!

- ⌚ it's hard to navigate
- ⌚ it's hard to manage
- ⌚ it only exists on the hard drive of the user's computer

## THE NEW & IMPROVED SOLUTION

develop a web-based application to manage instructor-course assignments!

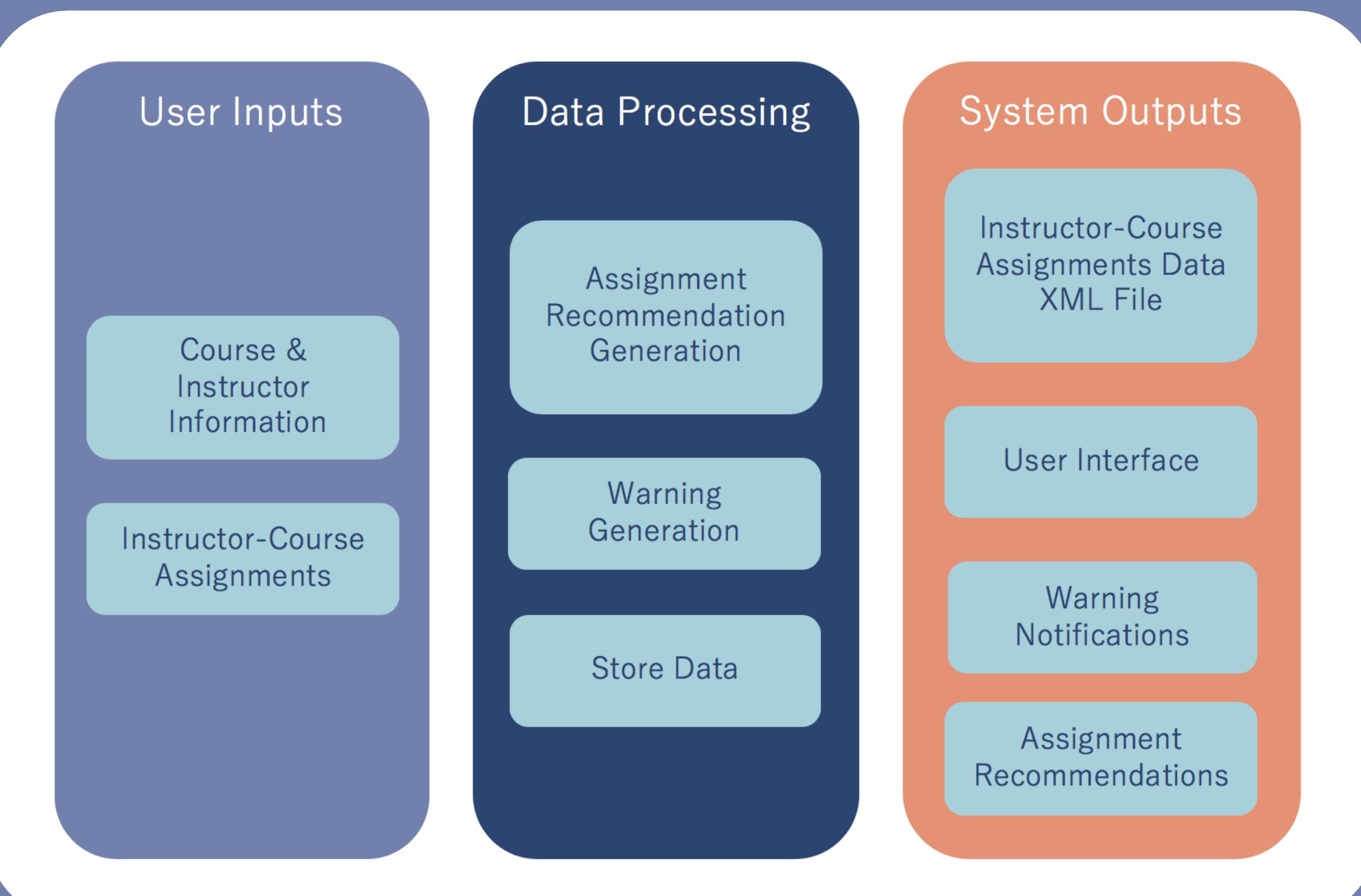
## THE BENEFITS

advantages over the old solution

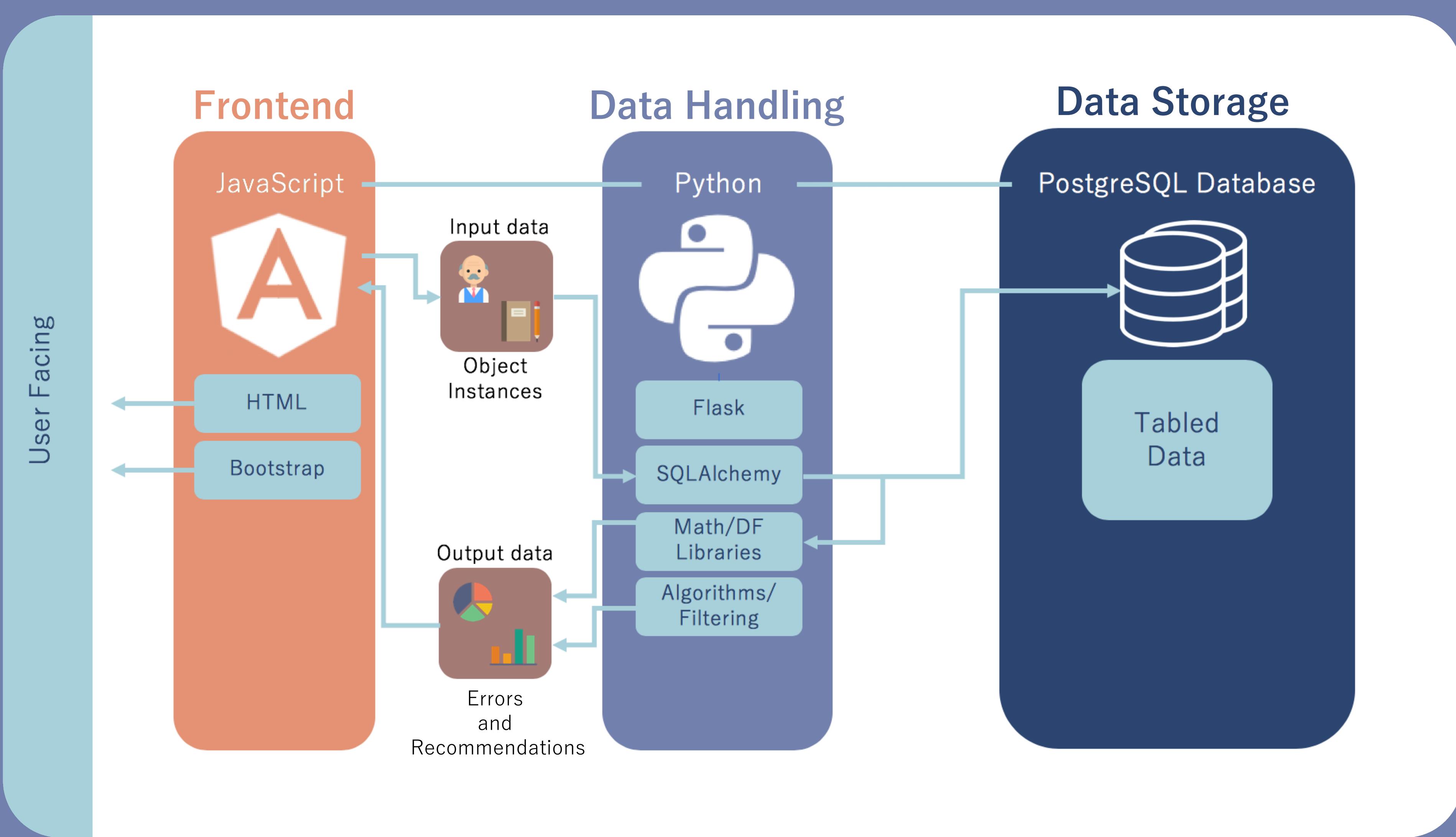
- ⌚ allows for easy navigation & management
- ⌚ can be accessed via the web
- ⌚ allows Program Coordinators to work on assignments simultaneously
- ⌚ provides instructor-course assignment recommendations

## THE APPROACH

IPO Chart



Software Interfaces



### FRONTEND

angular provides data binding to HTML and a simple way to approach web design by using object oriented methodologies

### DATA HANDLING

python provides built in math libraries and supports flask, which can provide a super lightweight API

### DATA STORAGE

postgreSQL combined with AWS provides an easy and reliable way to store, manage and backup data

## SYSTEM FEATURES

- view instructors & courses
- add instructors & courses
- edit instructors & courses
- assign instructors to courses
- export instructor-course assignments (as an XML file)

## TO DO

- work with TXST University for a log in system

## DOING

- add and edit instructors & courses
- making instructor course assignments
- implement assignment recommendation

## DONE

- system framework
- frontend user interface

## THE DREAM TEAM



Phillip Tran David Johnson Kiana McDaniel

## A BIG THANK YOU!

Dr. Compeau (Sponsor & Faculty Advisor)  
Mr. Hinkle (Instructor)  
Dr. McClellan (Faculty Advisor)  
thank you so much for your guidance throughout the semester. we really appreciate it!