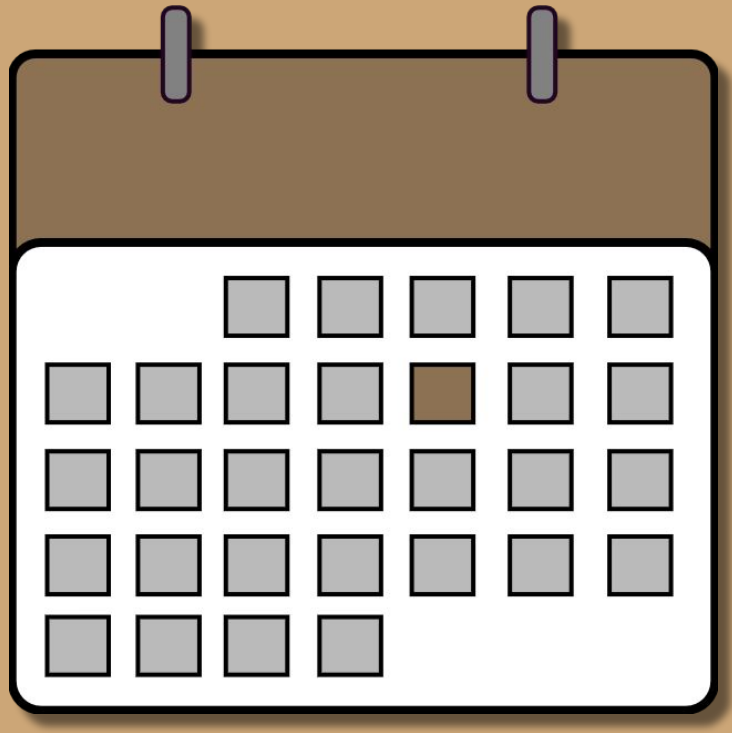
Mini-Intro

Team Magisters



Meet Team Magisters

Junjian Yin: Lead Designer
Andrew Liddell: Web Technician

Daniel Drake: Presentation Coordinator/Editor
Joe Domabyl: Team Lead

Mentor

Volodymyr (Vova) Saruta

Introduction

- So, you're trying to coordinate hundreds of people...
  - Time consuming
  - Frustrating
  - The Butterfly Effect

Some Client Information

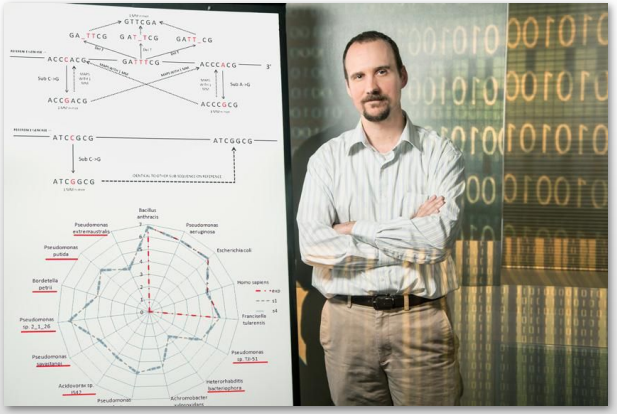
Client: DR. VIACHESLAV FOFANOV

- Associate director for graduate programs
- Associate lab coordinator for bioinformatics labs
- Sponsor for the Team Magisters TA coordination project

TA and class schedule responsibilities:

- Responsible for GTA and TA assignment
- Responsible for schedule of graduate classes
- Deciding who is qualified to TA for which classes

What is the Clients' stake?



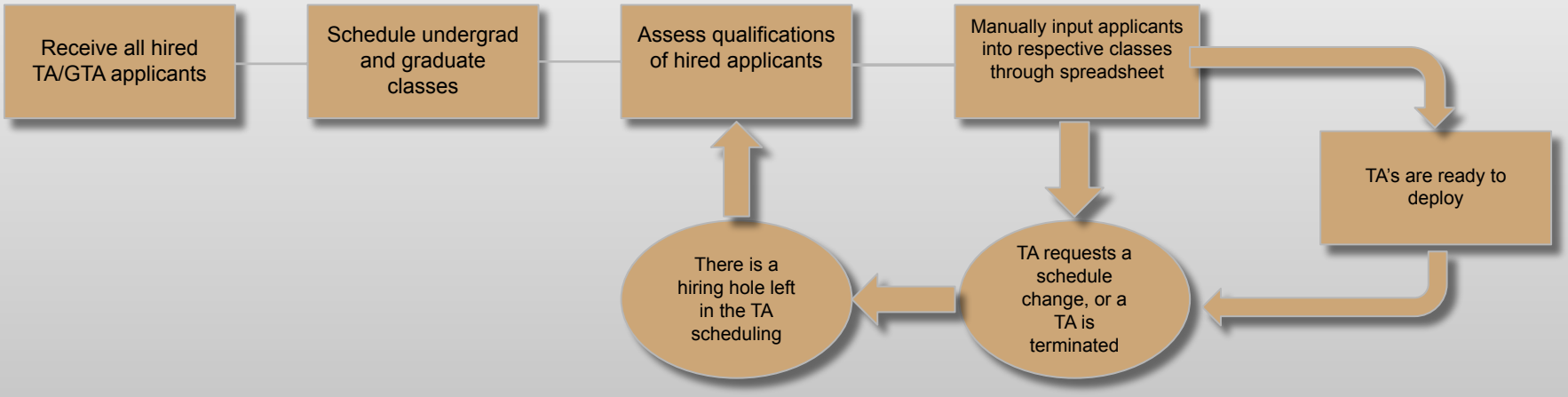
Our client, **Dr. Fofanov:**

- Works an associate director for the SICCS program
- There are many other associate professors who are responsible for TA/lab assignments
- Generally, the client is also the administrator of the department (not just Fofanov)

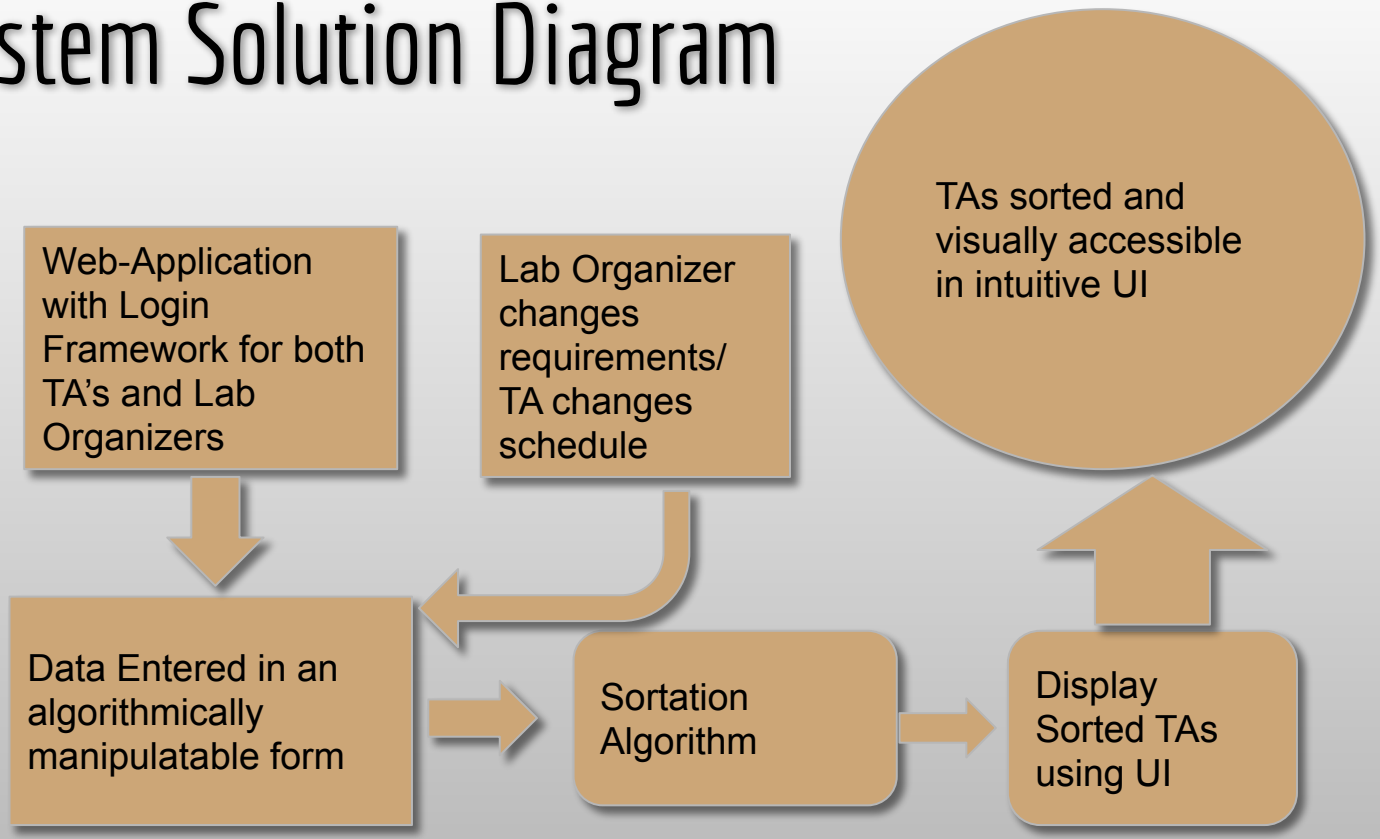
Fofanov's request:

- That we as a team develop an automatic scheduler and assigner for TA's and GTA's
- At first, we make the software suit his needs
- We can then make further stretches to suit the needs of the entire SICCS department

Workflow


Receive all hired TA/GTA applicants
Schedule undergrad and graduate classes
Assess qualifications of hired applicants
Manually input applicants into respective classes through spreadsheet
TA's are ready to deploy
TA requests a schedule change, or a TA is terminated
There is a hiring hole left in the TA scheduling

System Solution Diagram



Plan for Development

- Requirements acquisition/refinement
  - Web-based application
  - Role-based permissions for TA/GTA and lab organizer
  - GUI
- Technical Investigation
  - Database for TA's info and schedule
  - A clear and easy to use graphical interface
  - Find and implement both web and frontend framework
- Other issues
  - Mobile friendly web

Closing

- Team Magisters are working to create a sophisticated web-based tool for automating and optimizing course staffing requirements for our client, Dr. Fofanov, and hopefully the rest of the SICCS dept.
- It takes him too many hours to manually assign TA's to appropriate labs every semester.
- By automating this scheduling and employee evaluation in a convenient and fast way, we will make organizing labs faster and easier.