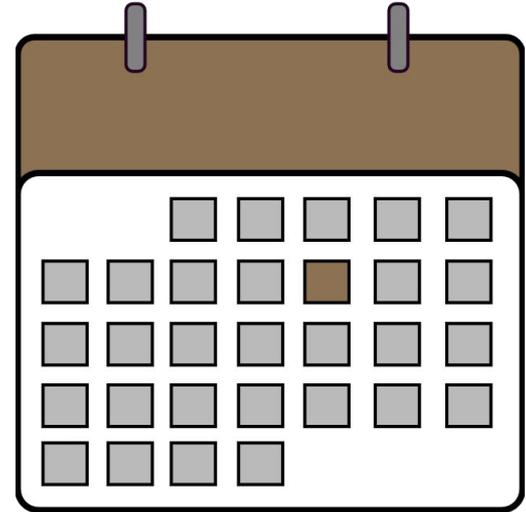


Design Review #2

TA Scheduling and Management
System (**QuickSched**)



Team Magisters



Andrew Liddell

Joe Domabyl V

Junjian Yin

Daniel Drake

Volodymyr (Vova) Saruta



Doctor Fofanov

- Associate director for graduate programs at SICCS
- Associate lab coordinator for bioinformatics labs



Solution Overview



- Web based instance application
- Django Web Framework
- SQLite3
- Assisted automation

Web Based Instance

- Hosted through AWS
- LightSail
- Debian



Django

- Python based web framework
- Front-end and back-end



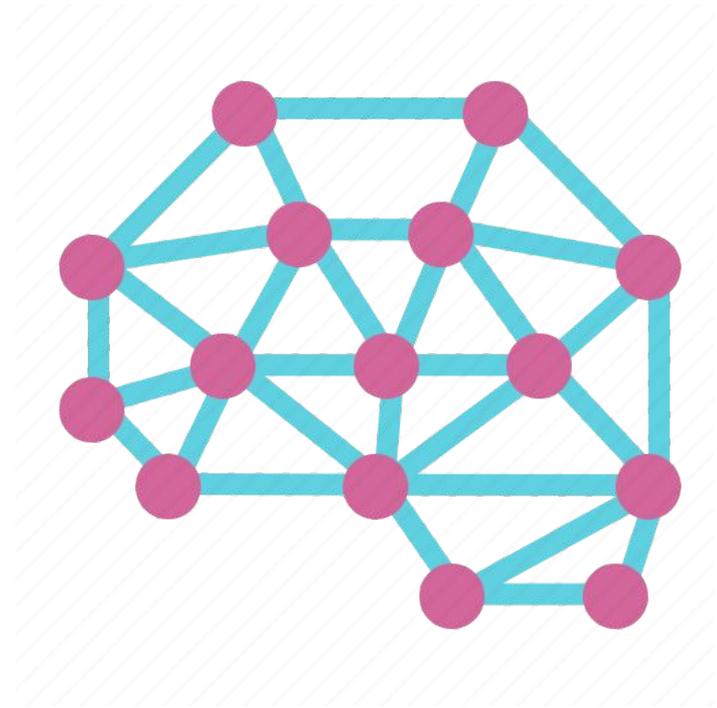
SQLite3

- Django default
- Primary database
- Speed vs. scale

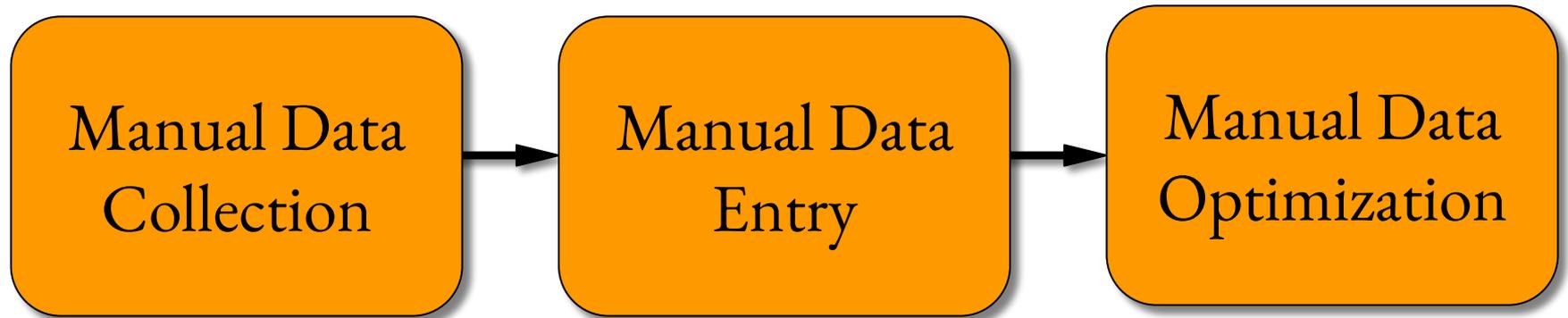


Assisted Automation

- Provide schedule templates
- Assign scores to TA's
- Version control

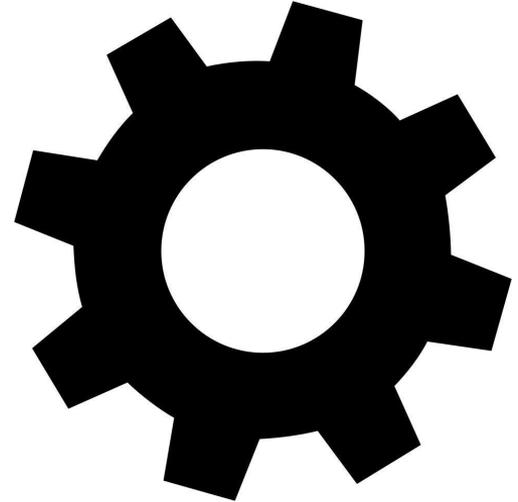


Problem: Client Current Workflow



Functional Requirements

- User-based authentication and permissions
- TA scheduling optimization
- Account configuration and setup
- GUI
- Data management system



Client Improved Workflow

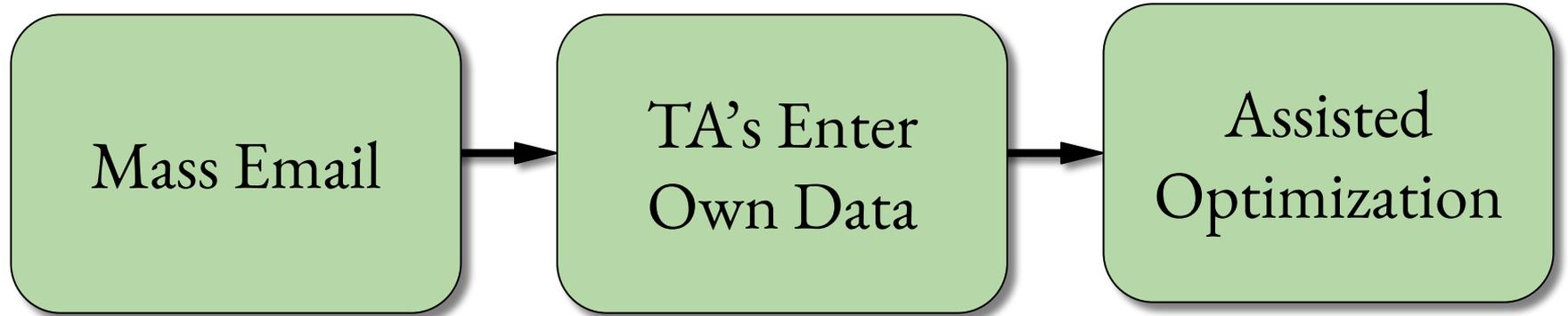
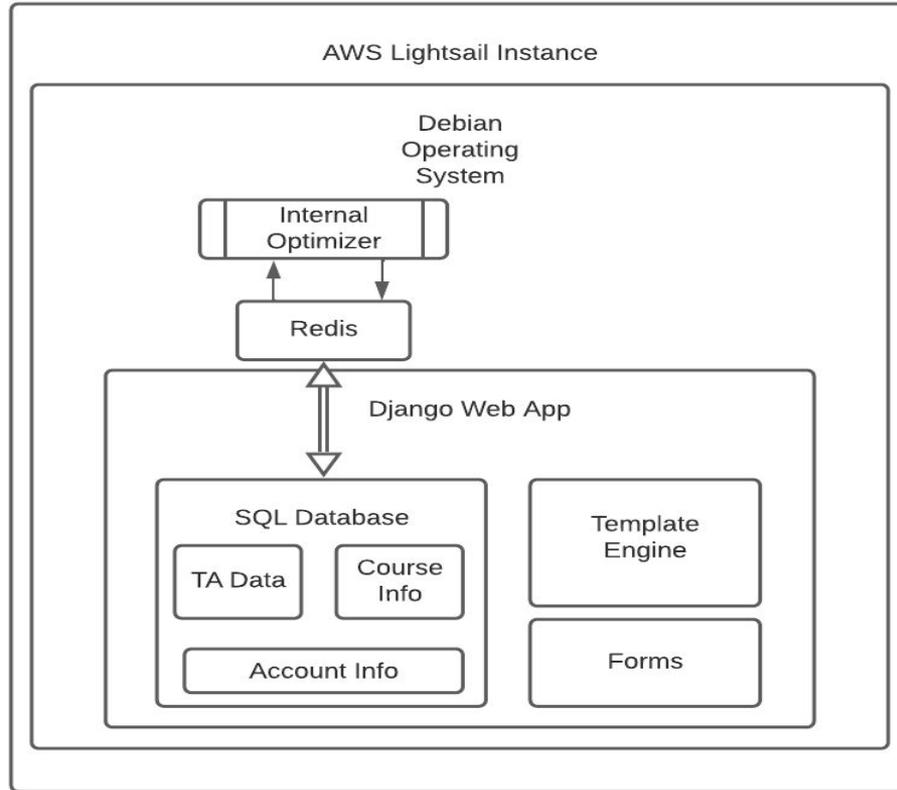


Diagram: Overview



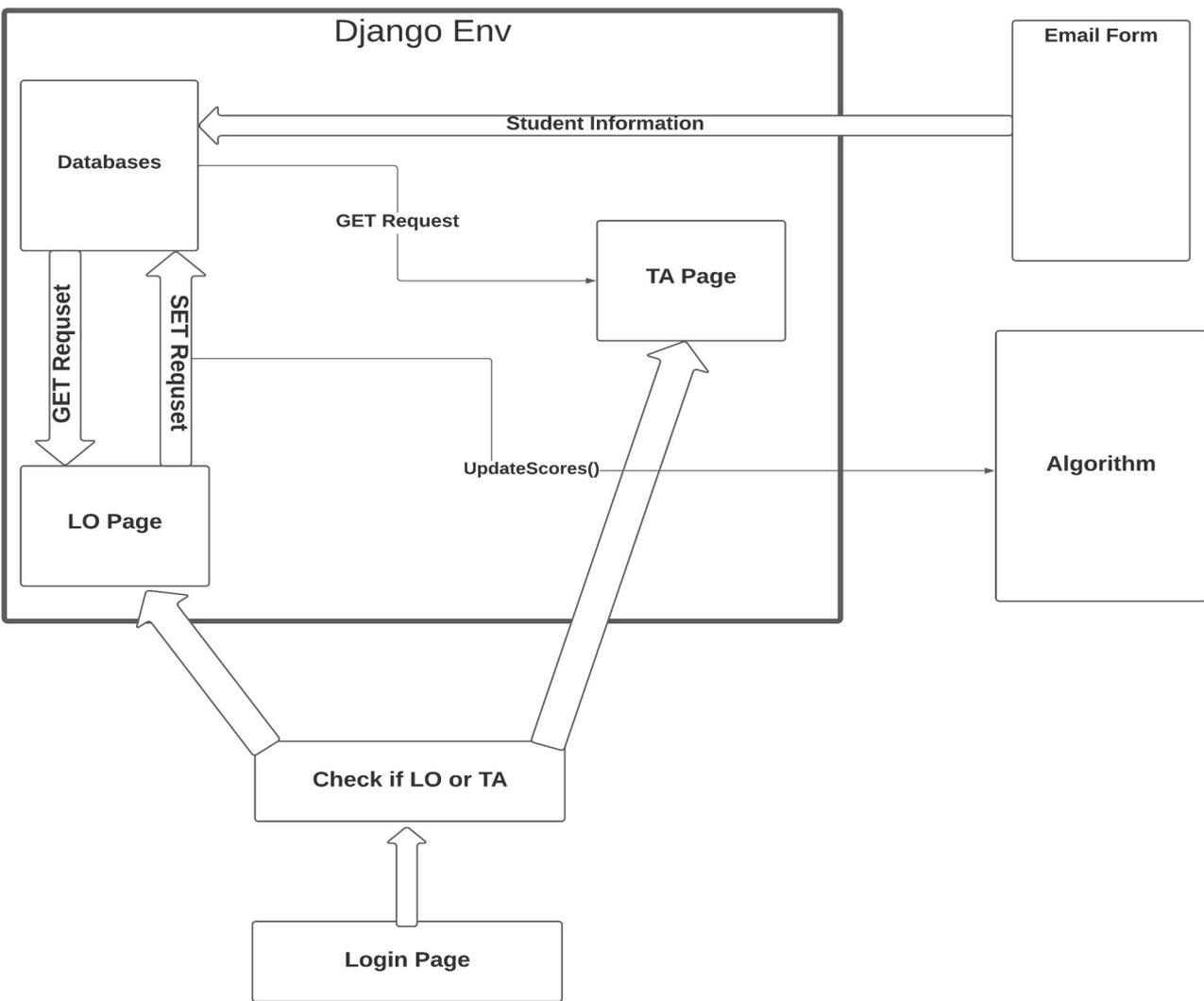


Diagram: Django

Testing the application

Challenges and Resolutions

Challenge	Resolution
Asynchronous web page updates	JQuery
Redis integration	SQLite, default for Django
Recruitment of TA's	CSV File Upload

Planned Schedule

	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16
<i>Software Design</i>		Document														
<i>Design Review 2</i>						Presentation										
<i>Fully Integrated Prototype</i>								Prototype								
<i>Software Testing Plan</i>									Document							
<i>Design Review 3</i>											Presentation					
<i>Capstone Poster</i>													Prototype			
<i>Final Presentation</i>													Presentation			
<i>Final Report</i>													Document			
<i>Final Product</i>														Prototype		

 Document

 Prototype

 Presentation

