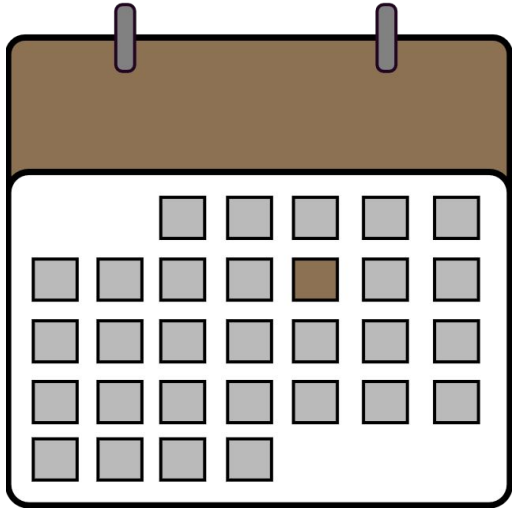
Design Review #2

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



Team Magisters

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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

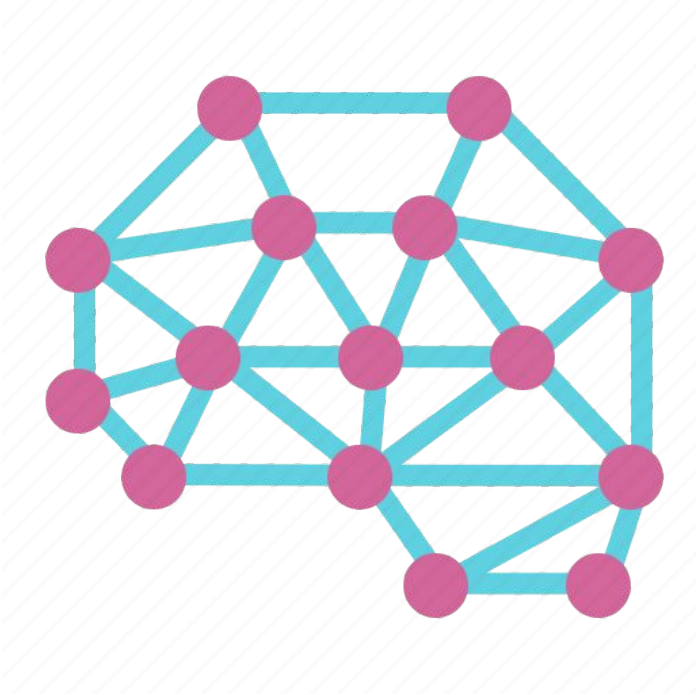
- Python based web framework
- Front-end and back-end

SQLite3

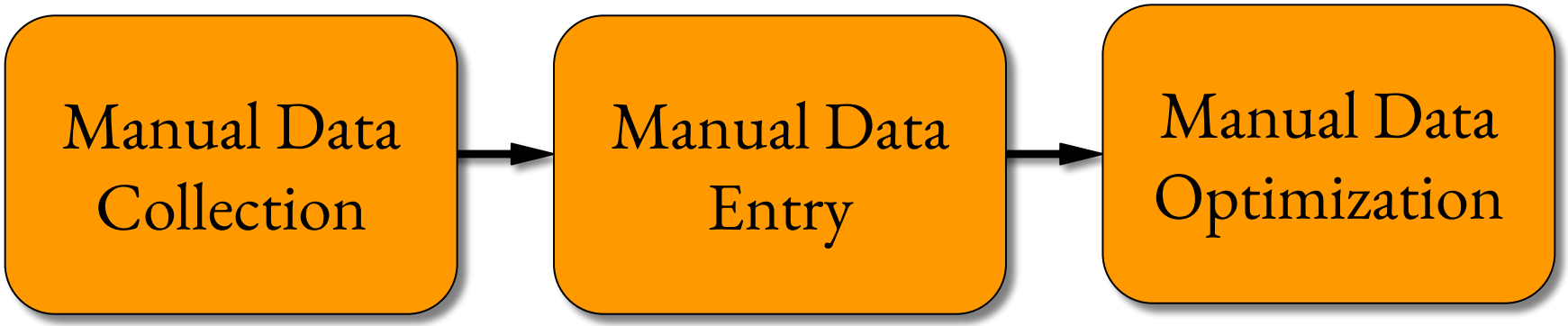
- Django default
- Primary database
- Speed vs. scale

Assisted Automation

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

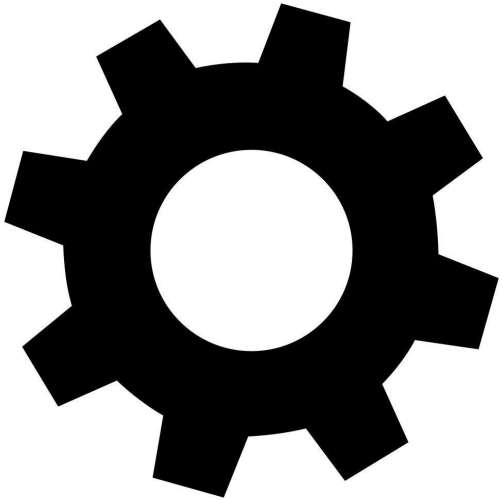


Problem: Client Current Workflow



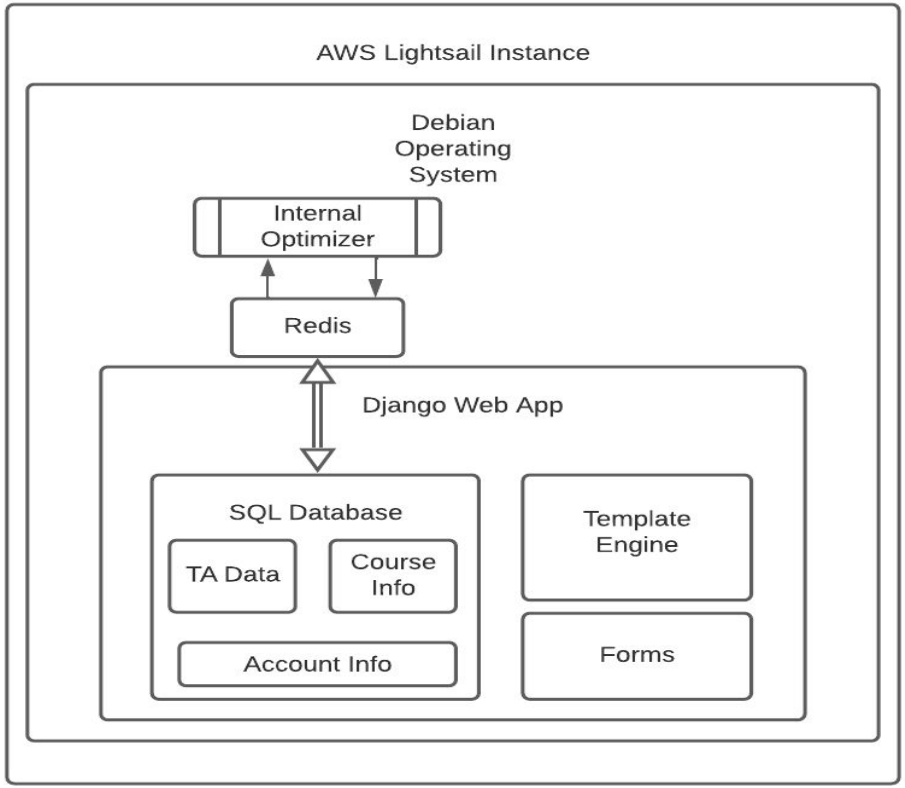
Functional Requirements

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



Client Improved Workflow

Diagram: Overview



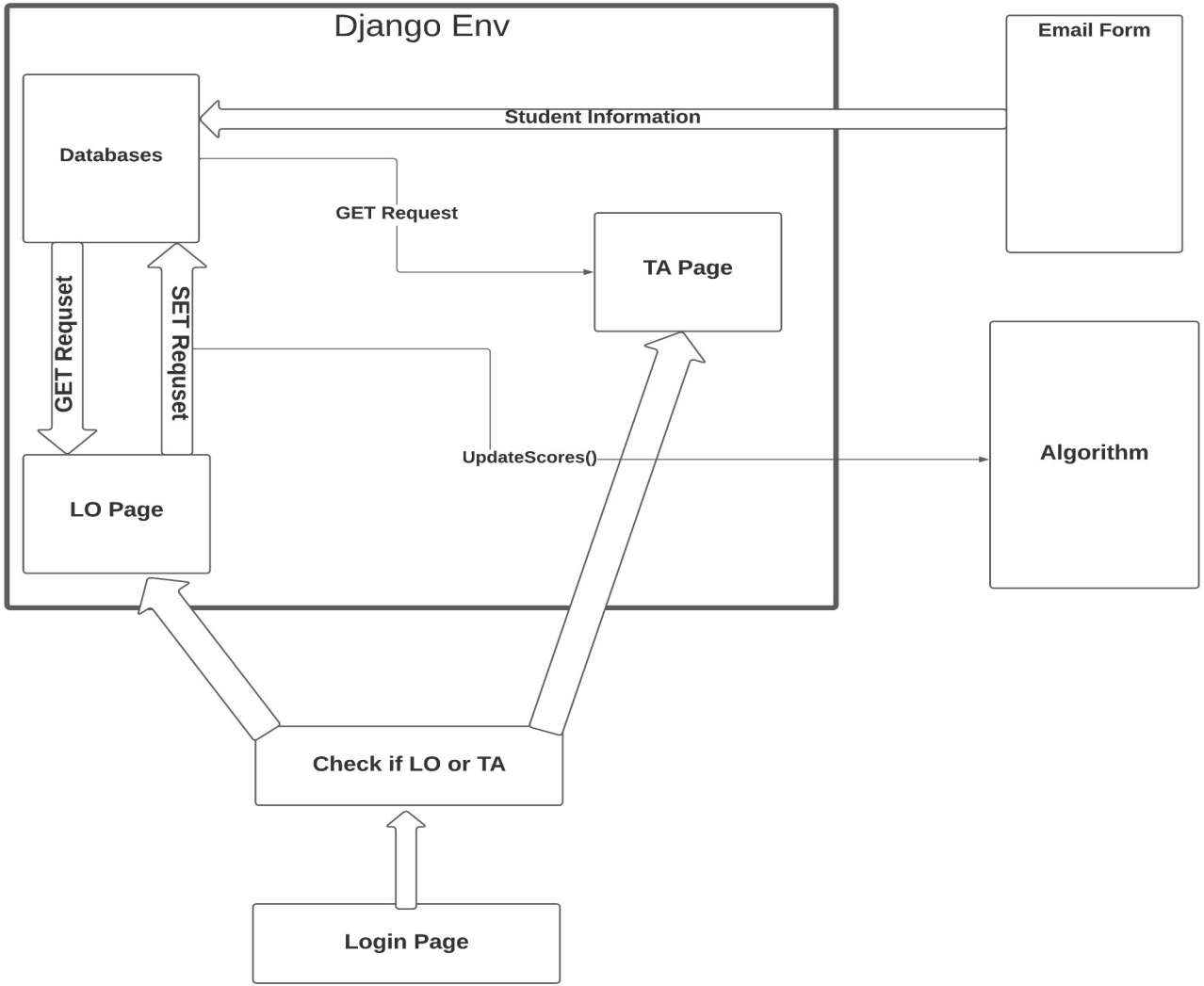


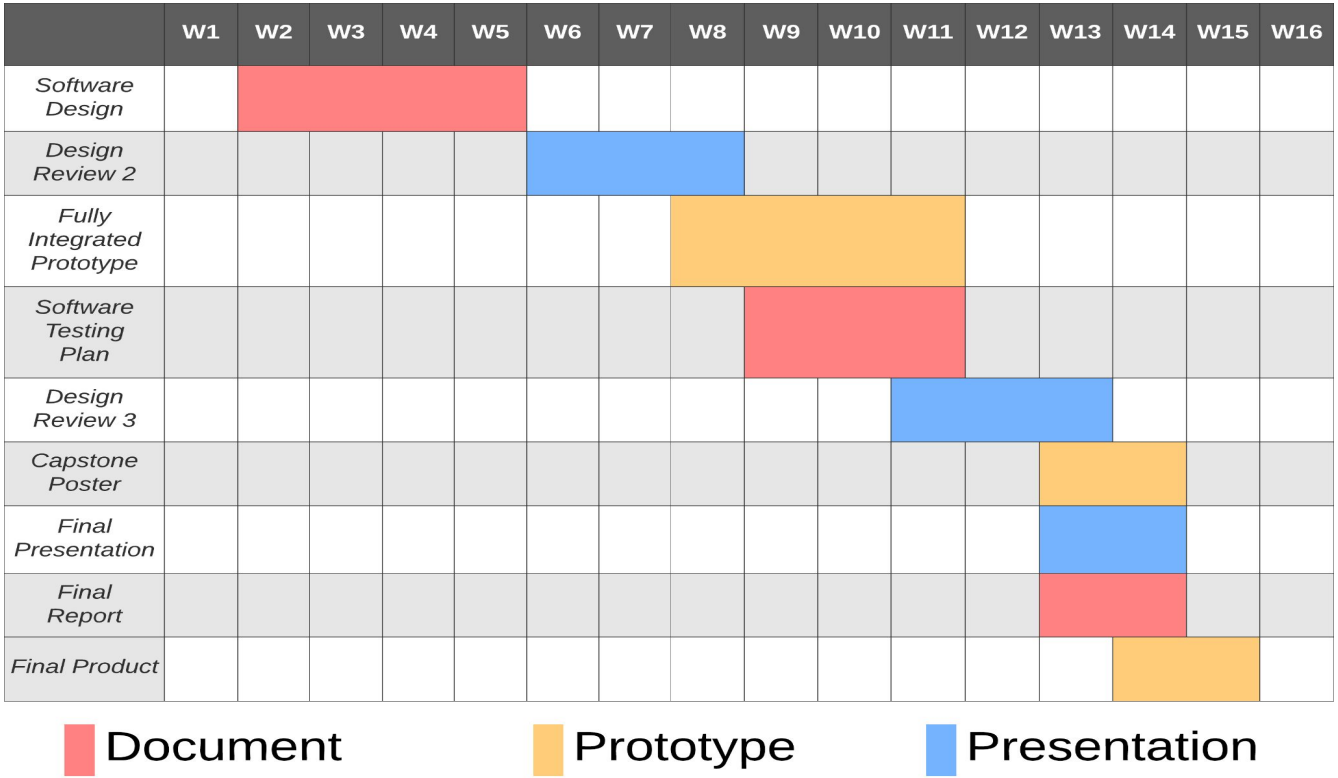
Diagram: Django

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



Conclusion