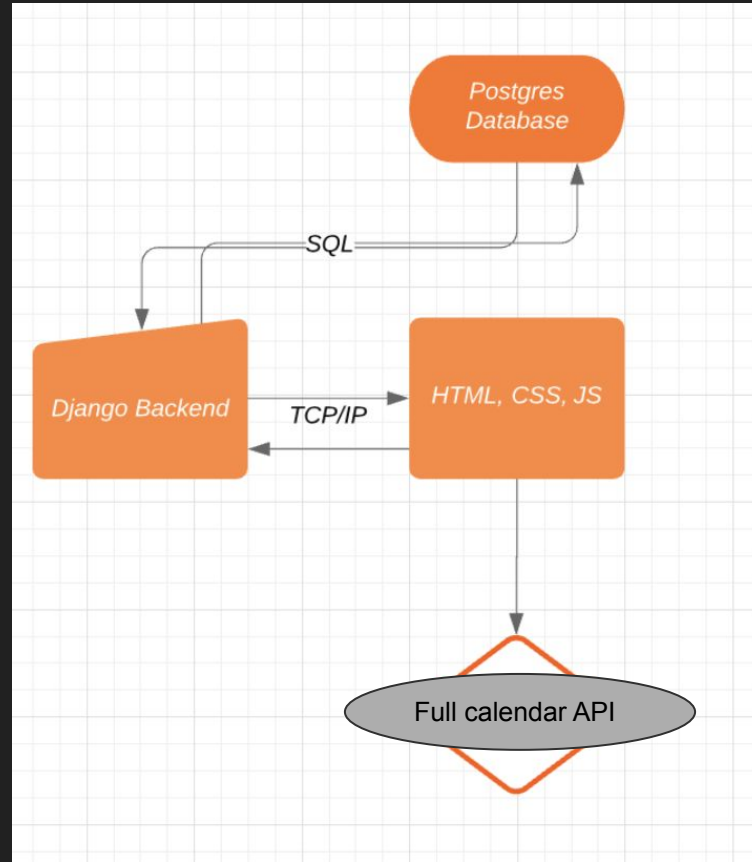


ScheduleCU

Spencer Boverman, Jacob Felknor, Glenn
Holzhauer, Kristain Montoya, Raegan Rychucky,
Sam Williams

ScheduleCU Architecture Diagram



Development and Organizational Tools

Project Tracker: TRELLO

VCS repository: GITHUB

Database: PostgreSQL

Testing tool: Travis CI

Auto-Documenter: Sphinx

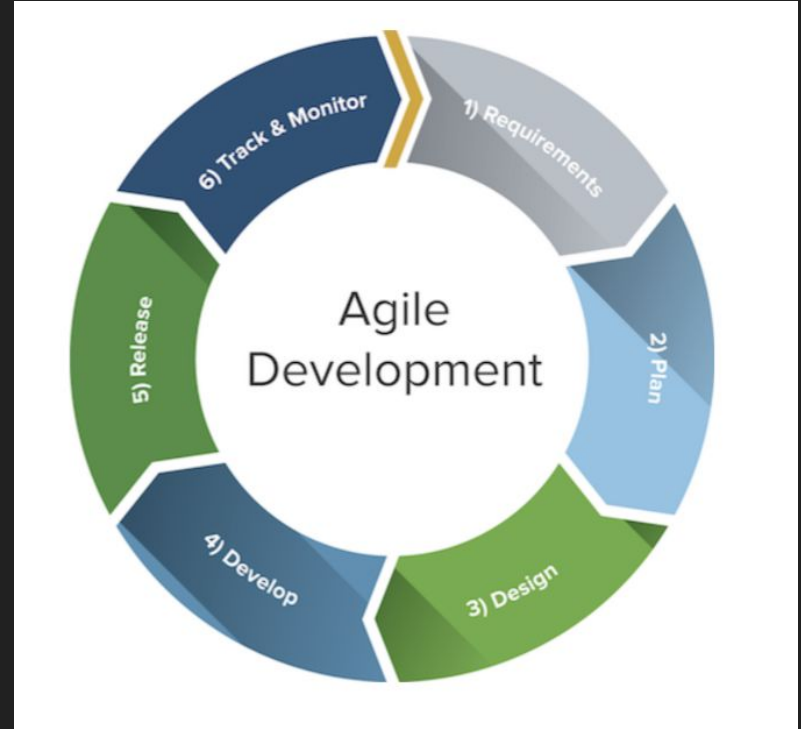
Deployment: Heroku

IDE: Atom, Visual Studio Code, Sublime

Framework: Django (Python)

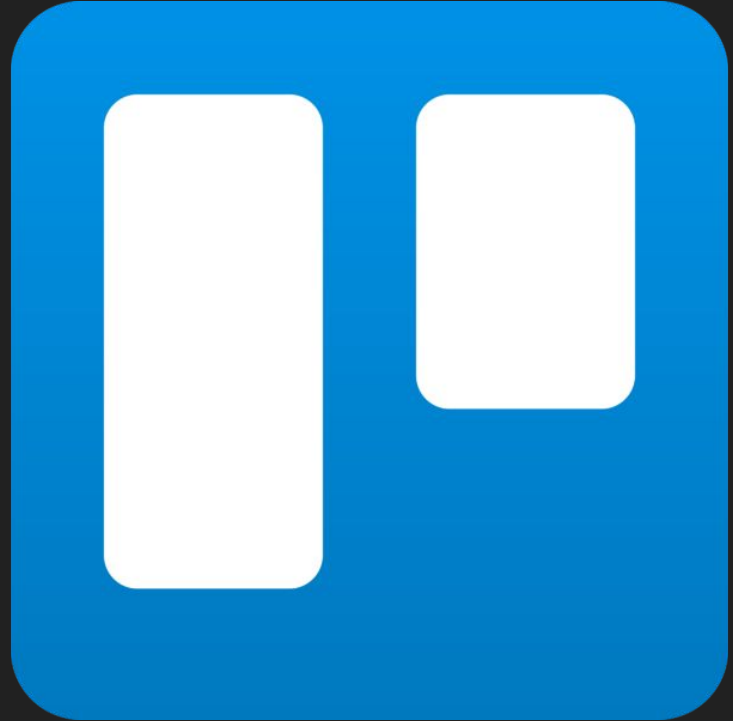
Agile: Methodology

- Allow for general adjustments and changes as the project advances
- Iterative model
 - Plan iterations to complete in sprints
 - Allow for flexibility
- 2 week sprints
- Work collaboratively
- Keep track of progress using Trello Board and GitHub meeting log repository
- Code reviews on pull requests
- Grade: 5/5



Trello: Project Tracking

- Project tracking and organization
- Grade: 5/5
- Useful for assigning tasks
- Good visual layout to see what is completed/what needs to be completed in the next sprint
- Easy to use with agile methodology



Home

Boards

Search

Trello

+

🔔

🔔

R

Hackits

☆

Personal

Private

R SW G JF KM +1

Invite

Butler

Unito Sync

Show Menu

In Discussion

Python script to parse Registrar's class list PDF

User Database

Mobile App

Matching System

+ Add another card

Requirements

Database

Website Hosting

Course Scheduler

Profile Pages

Degree Audits

"Rate my Professor" with FCQs

secret_key = "f)v(q!9!h@k(x9x0_d2fs4p1%k@dcw3=\$7(_xnfc-&0^+y9ggs"

email_password = "kVv5WjewRAnCWMR"

+ Add another card

Backlog

Campus Map with directions

Faculty model in Django to integrate with Class model

Migration to add Faculty ID column to Class model

Modify Class model with foreign key to Faculty

More robust search for entering major in profile. Map codes to names (CSCI --> Computer Science). Be able to search and enter both terms for a common result.

Get release copy of scheduleuc running on Heroku

+ Add another card

In Progress

Front end for homepage

Client-side javascript UI for course scheduler

Create class search page. Search on number, department, instructor, etc. Be able to save a class to your profile for future reference

Obtain Degree Requirements for CS degree

Modify Professor/FCQ db structure.

Class Database redesign

Update README to include instructions on populating database. Professors, then Classes/Sections then FCQ's

+ Add another card

Done

Compile ODA data spreadsheets

Autocomplete changes for major

Investigate Login Functionality

Investigate Webhosting solutions

Write Python script to parse course schedule PDF

Write Python scripts to parse FCQ spreadsheets

Setup database

Create website framework with Django

Investigate User Page Functionality

+ Add another card

+ Add another list

GitHub: VCS Repository

- Remote repository for development
- Repositories for meeting logs, milestones, and “ScheduleCU” frontend/backend code
- Grade: 5/5
- Integrated pull requests with built in code review functionality





csci3308-meetinglog

Meeting logs for CSCI3308

Tuesday, Sept 17

Team discussed severable viable project types, settled on "ClassBook" (name maybe subject to change?). Most details ironed out, most of description written up.

Tuesday, Sept 24

Finished details, Milestone 1 looking ready for submission. Small tasks settled for team members to complete at home, and submit.

Tuesday, Oct 1

As a group, we decided to alter our framework to Node.js instead of Django. Although Jacob has experience in Django, we decided it was of best interest to the group to use Node.js since that is what our assignments and labs will most likley be using. We also set up a Trello page to keep track of TODO items for our project.

We also started talking about how usable we want our app to be. Currently, our platform is useless if no one is on it. We decided we want to be able to have our product be productive even if only you use it. We are shifting our focus from less of a social media site to more of a tool. Degree auditing came up, and also statistics on the university came up. We really want our project to be usable for a single person. The one we really liked was a class scheduler with instructor information baked in. The big problem is getting this data.

Another idea was discussed about alternative ideas, including a Twitter/other social media stats application to do analytics on a person's account.

Tuesday, Oct 8

The group discussed the usage of the application further and built the Trello up with prioritization of features and tasks.

<> Code

Issues 0

Pull requests 0

Actions

Projects 0

Wiki

Security

Insights

Course scheduler for CU students

database

students

cu-students

database-management

schedule

course-scheduler

professors

165 commits

11 branches

0 packages

0 releases

3 contributors

MIT

Branch: master

New pull request

Create new file

Upload files

Find file

Clone or download



jacobfelknor This file tells github to ignore files in the given directory

✓ Latest commit cc47c3b 2 days ago

classes	schedule bug fix.	2 days ago
config	merged from fcq. rewrote quite a bit	17 days ago
contact	slight visual changes	16 days ago
fcq	minor fixes to donut chart	2 days ago
home	Lots of Improvements! See below:	2 days ago
python_scripts	Update style and add pie chart	4 days ago
requirements	resolving conflicts and making form fixes	29 days ago
schedulecu	updated signin/out font awesome	3 days ago
schedules	updated tests	2 days ago
users	updated tests	2 days ago
.gitattributes	This file tells github to ignore files in the given directory	2 days ago
.gitignore	updated gitignore	29 days ago
.travis.yml	CI not parsing this correctly.. trying to unindent	26 days ago
LICENSE	Create LICENSE	18 days ago
README.md	Update README.md	20 days ago
manage.py	initial django setup	2 months ago

<> Code

🔔 Issues 0

🔗 Pull requests 0

🎬 Actions

📁 Projects 0

📖 Wiki

🛡 Security

📊 Insights

Project milestone submissions for CSCI 3308

📦 6 commits

🌿 1 branch

📦 0 packages

🔖 0 releases

👤 3 contributors

Branch: master ▾

New pull request

Create new file

Upload files

Find file

Clone or download ▾



PaperXLV Add files via upload

Latest commit 3533ff7 20 hours ago



ProjectMilestone1_[204-2].pdf

Add files via upload

2 months ago



ProjectMilestone2_[204-2].pdf

Add files via upload

2 months ago



ProjectMilestone3_[204-2].pdf

Add files via upload

last month



ProjectMilestone4_[204-2].pdf

Add files via upload

24 days ago



ProjectMilestone5_[204-2].pdf

Add files via upload

20 hours ago



README.md

Create README.md

3 months ago



README.md



csci3308-milestones

Project milestone submissions for CSCI 3308

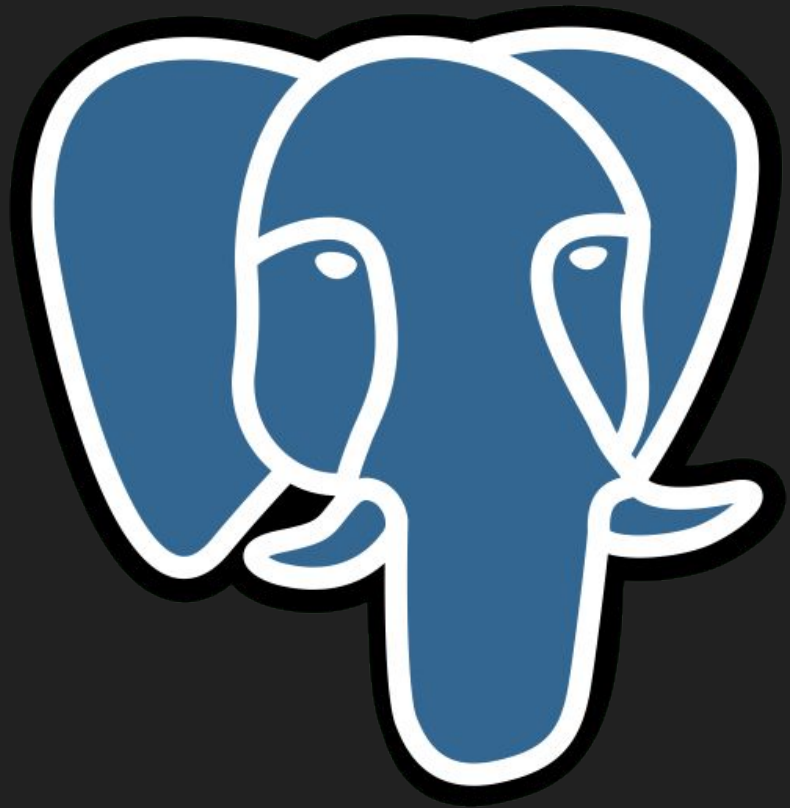
Django (Python): Framework

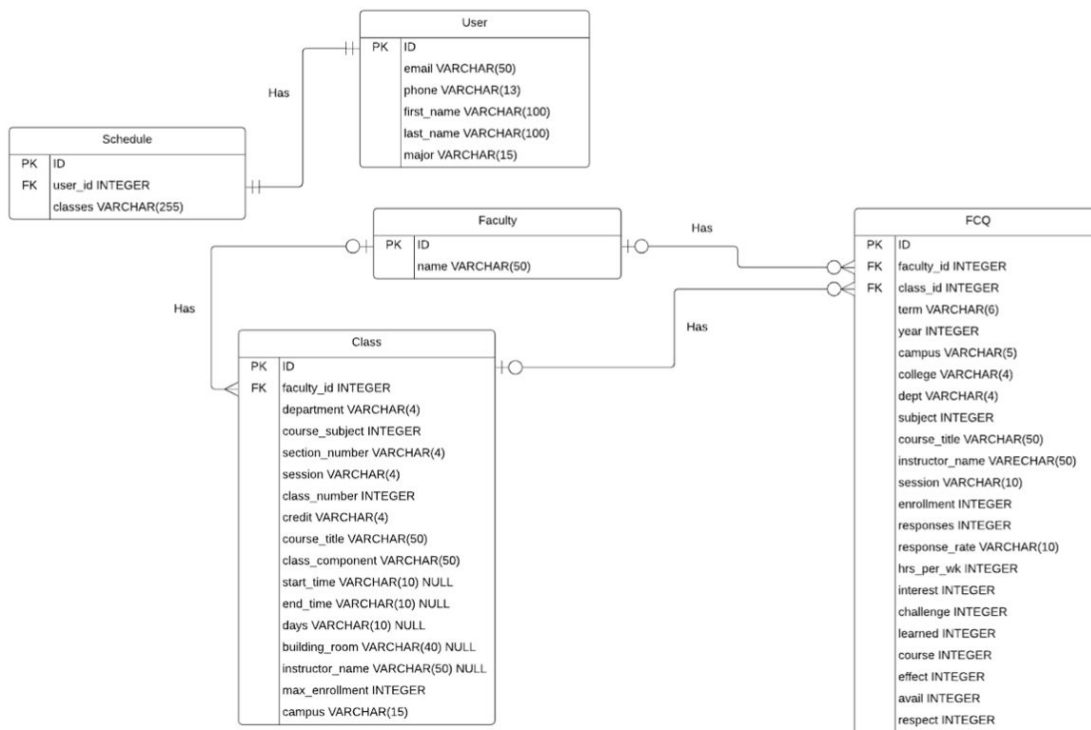
- Web framework
- Grade: 5/5
- Easy to follow tutorials, led nicely into project development
- Handled full stack
- Built in template language and handler for dynamic html generation



PostgreSQL: Database

- Grade: 5/5
- Handled through Django
 - Object Relational Mapper (ORM)
 - Mapped queries to Python objects
- Designed early on
 - Took full advantage of relational abilities of the database
 - Database Normalization
 - Well structured and defined from the beginning





Database Structure

Travis CI: Continuous Integration

- Continuous Integration
- Grade: 5/5
- Extremely useful to know when changes broke other parts
- Required unit tests to utilize
- Allowed for code to be successfully and quickly integrated



My Repositories

+

✓ jacobfelknor/schedulecu


189

⌚ Duration: 1 min 22 sec

📅 Finished: 21 hours ago

Current Branches **Build History**

Pull Requests

More options 

✓ master Jacob Felknor	Merge pull request #24 from jacobfelknor/class-par	➔ #189 passed e830699 🔗	⌚ 1 min 22 sec 📅 21 hours ago	⊙
✓ class-parse-improvements Jacob Felknor	Merge branch 'master' into class-parse-improvement	➔ #187 passed e2059ab 🔗	⌚ 1 min 28 sec 📅 21 hours ago	⊙
✓ master Jacob Felknor	Update .gitattributes	➔ #186 passed 90e5614 🔗	⌚ 1 min 31 sec 📅 22 hours ago	⊙
✓ master WhyHelloPear	Added link to project site	➔ #185 passed 7bb34e1 🔗	⌚ 1 min 29 sec 📅 a day ago	⊙
✓ heroku Sam Williams	Merge branch 'master' into heroku	➔ #184 passed 0c34a55 🔗	⌚ 1 min 33 sec 📅 a day ago	⊙
✓ master Jacob Felknor	Merge pull request #25 from jacobfelknor/dependabo	➔ #183 passed 7a56ee7 🔗	⌚ 1 min 16 sec 📅 a day ago	⊙
✓ dependabot/pip/requirements GitHub	Bump django from 2.2.6 to 2.2.8 in /requirements	➔ #181 passed f747944 🔗	⌚ 1 min 40 sec 📅 a day ago	⊙
✓ master Jacob Felknor	Merge pull request #23 from jacobfelknor/calendar2	➔ #180 passed 44a0f7c 🔗	⌚ 1 min 30 sec 📅 a day ago	⊙
✓ heroku Sam Williams	whitenoise statics	➔ #179 passed a39f69c 🔗	⌚ 1 min 26 sec 📅 a day ago	⊙
✓ calendar2.0 Jacob Felknor	slight visual changes	➔ #177 passed 822bb36 🔗	⌚ 1 min 30 sec 📅 a day ago	⊙
✓ calendar2.0 Jacob Felknor	Fixed day parsing. Parse TH before T.	➔ #176 passed 9b34c12 🔗	⌚ 1 min 32 sec 📅 a day ago	⊙

Heroku: Deployment

- Deployment
- Grade: 4/5
- Our database is 12x larger than their free tier
- Many additional things to consider when moving to production
- Slow loading for free tier



heroku

Atom, Sublime, Visual Studio Code: IDEs

Sublime (5/5):

- Simple

Visual Studio Code (5/5):

- Good user experience
- Integrated git
- Integrated diff tool to make merge conflicts a breeze

Atom (5/5):

- Integration with GitHub



Challenges

- Database work
 - Multiple iterations on the design of some of our tables
 - Data had to be parsed from excel / pdfs
- Django
 - Learning curve to the framework
- Heroku
 - Deploying with DEBUG=False brought unexpected issues
 - Static files
 - Database is too large for free tier