

Stevens Resource

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Project Description

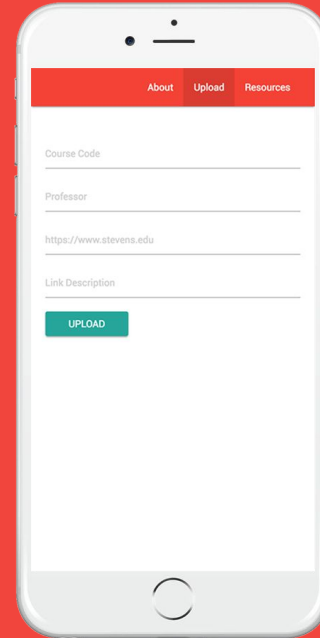
- Stevens Resource is a web application that is able to save old tests, study guides, and class syllabi into storage database for Stevens students.
- This web application should be able to help students understand the material they are learning in class and prepare them for their next examination.

Architecture (Logical View)

- Functions of the System
 - Passing data to python/flask through jinja template forms
 - Python functions to query the database for data and verifying links
 - CSS theming with the use of Materialize

Architecture (Physical View)

- Supporting Hardware
 - Any Device with an Internet Connection and a Web Browser
 - Desktop and Mobile Ready



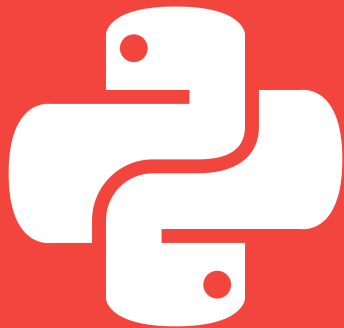
Architecture (Process View)

- Users View

- About informs the user of the application
- Upload makes sure the information is passed to the database and is valid
- Resource allows the user to view all the available links



Architecture (Development/Design)



Python/Flask



SQLite3

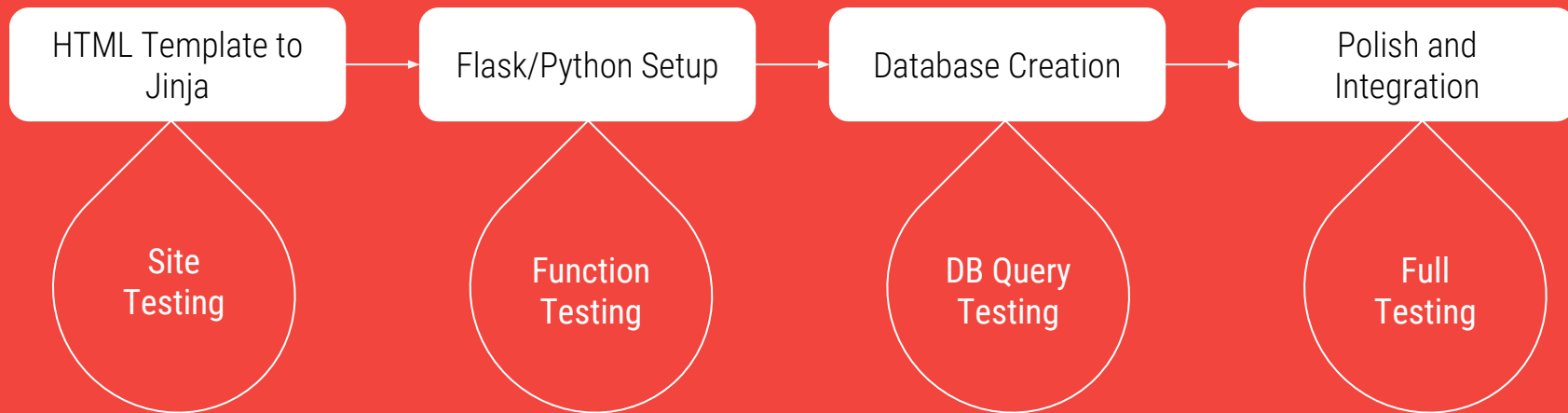


Jinja 2



Materialize

Development and Testing



Tests and Metrics

```
3 import sys
4 from termcolor import colored
```

```
26 def queryLinks(query):
27     fullLinks, links = retrieveLinks(), []
28     #print(colored(fullLinks, 'green'), file=sys.stderr)
29     for course in fullLinks:
30         #print(colored(course, 'blue'), file=sys.stderr)
31         if str(course[0]) == str(query):
32             #print(colored(len(links), 'blue'), file=sys.stderr)
33             links.append(tuple(course))
34     #print(colored(links, 'yellow'), file=sys.stderr)
35     return (fullLinks, links)
```

```
28 @app.route('/resource', methods=['POST', 'GET'])
29 def resource():
30     if request.method=='POST':
31         course = request.form['sel']
32         links, courses = dbHandler.queryLinks(course), []
33         #print(colored(links, 'red'), file=sys.stderr)
34         for course in links[0]:
35             courses.append(course[0])
36         courses = sorted(list(set(courses)))
37         return render_template('upload.html', links=links[1], courses=courses)
```

Minimal LOC

~12 Hours Spent

```
spring2017-ssw215-flask — python main.py — 109x31
[AustinRochasMBP:spring2017-ssw215-flask arocha$ radon mi main.py] Maintainability Index
main.py - A
[AustinRochasMBP:spring2017-ssw215-flask arocha$ radon mi models.py]
models.py - A
[AustinRochasMBP:spring2017-ssw215-flask arocha$ radon cc -s main.py] Cyclometric Complexity
main.py
F 28:0 resource - A (4)
F 15:0 upload - A (3)
F 11:0 home - A (1)
[AustinRochasMBP:spring2017-ssw215-flask arocha$ radon cc -s models.py]
models.py
F 6:0 insertLink - A (3)
F 26:0 queryLinks - A (3)
F 18:0 retrieveLinks - A (1)
[AustinRochasMBP:spring2017-ssw215-flask arocha$ python main.py]
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```


Welcome to our Stevens Resource Page!

FILE UPLOAD

DEMO



Old Exams

Old tests are useful for practicing old problems and studying for upcoming tests. Working on old tests can tell you how long it will take you to complete a test and how well you know your material.



Study Sheets

Study sheets are a useful tool to help students understand the material that they are learning for their upcoming tests. It gives an overview usually of what material will be on the test and equations/formulas and sometimes definitions of useful vocabulary.

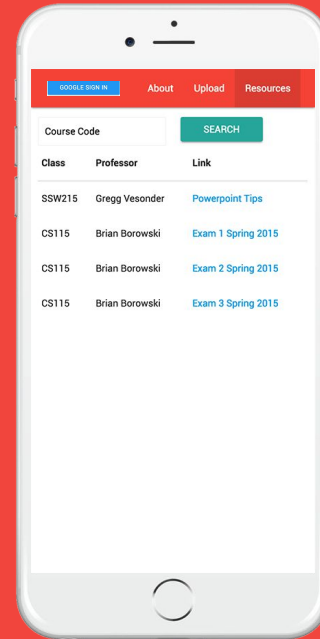


Syllabi

Syllabi are a useful tool that help students understand the contents of the course and also the grading distribution. They can also tell you a little bit about the professor, when subjects will be covered in the class and sometimes your final exam date if it has already been posted.

Future?

- Access for Stevens Students Only
 - OAuth with Google Sign In
 - @stevens.edu Emails Only
- More robust searching and sorting



Advice

- Split up the work
- Break down the program and build it up module by module
- Start small, Design and functionality will get better over time
- Begin with what the user wants
- Learn to use the resources available to you



github.com/au1st3in/spring2017-ssw215-flask