

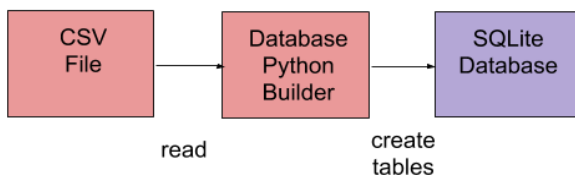
Team E and F (Karl Hernandez, Eric Lo, Amelia Chin, Ari Schechter)
SoftDev
P0 -- Quick! Quick! DESIGN DOCUMENT
2020-12-17

Program Components and Role of Each:

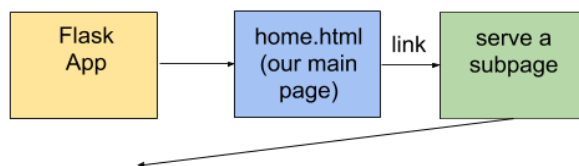
- **Flask App**: our app framework, manages all our routes
- **Jinja Templates**: has variables and expressions that will be replaced with values when rendered
 - one template for home page
 - one template for information pages
 - outlines the structure for all the college pages with the actual content of the tables and paragraphs being represented as arguments to be passed when rendering the template
 - one template for category pages (if we decide to increase complexity)
- **CSV Files**: holds our information that will be inserted into a SQLite database
- **SQLite Databases**: holds our information to be used for our site
 - **Database Python Builder**: builds the database from a CSV file in a Python app
- **HTML/CSS Files**: code and styling for our front-end pages
- **Text Files**: contain paragraphs for wiki pages, included in the info page templates
- **Search Bar** (if we decide to add once our basic site is functional)

Component Map:

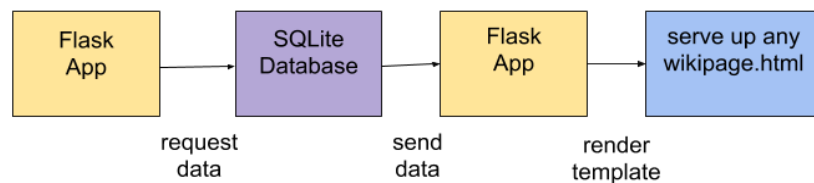
to set-up databases:



to serve our main pages :



to serve our subpages:



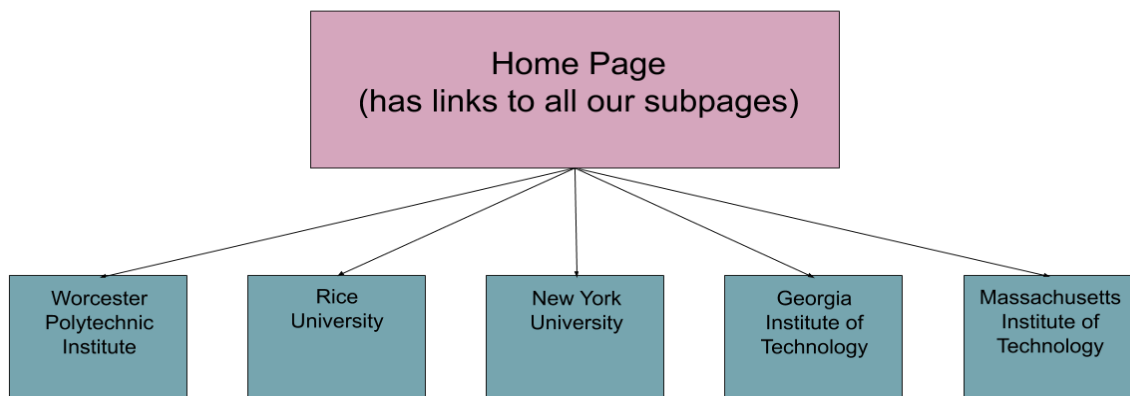
Database Organization:

- tables will be related through their id value of the schools
- first table (more general, for the main page):
 - id (primary key)
 - name
 - location
 - type (public or private)
 - website
- second table (more specific, for the subpages. Contains duplicate info because it makes SELECT FROM more convenient):
 - id (primary key)
 - name
 - location
 - type (public or private)
 - website
 - school size
 - undergraduate population
 - acceptance rate
 - year established
 - degrees offered
 - listed tuition
 - text files with general information about college

Wiki Page Topics:

- Worcester Polytechnic Institute
- Rice University
- New York University
- Georgia Tech
- Massachusetts Institute of Technology

Site Map:



Breakdown of Tasks:

- make 2 CSV files
 - first CSV file
 - general info about schools (Karl)
 - second CSV file
 - WPI (Ari)
 - Rice University (Karl)
 - NYU (Eric)
 - Georgia Tech (Amelia)
 - MIT (Amelia)
- make database builder which will parse the CSV files and create the SQLite tables -- Ari, Karl
- make Flask app with different routes -- Eric
- make HTML templates (one for main page, one for information pages) -- Amelia

Possible Components, if we have time:

- CSS styling
- increase complexity of wiki structure (ex: adding categories by location, more colleges, or more information for each college)
- search functionality