

BooStRadley
Ricky Lin, Matthew Ming, Mohammed Uddin, Sophia Xia
SoftDev1 pd6
P #01: arRESTed Development
2018-12-2

International Space Station (ISS) World Tour

Interactions

The website allows users to use all the features without creating an account except for saving information. User and saved information will be stored in tables in the database. Users can view the current location of the ISS on a map. They can see the weather there and find attractions near the location. User can save the information they want there, too. The information will be stored in their respective databases. They will be retrieved when the user visits their profile page. We will implement achievements if we have time remaining.

Component List

APIs:

- [International Space Station Current Location](#) (once every five seconds recommended)
 - Track the current latitude and longitude of the ISS
- [Map Quest](#) (15,000 per key per month)
 - Places to visit near an address
 - Displays current ISS coordinates on a map
 - Convert latitude and longitude coordinates into a readable address
- [Dark Sky](#) (1,000 per day)
 - Historical, current, and future data on the weather given latitude and longitude

Authenticator: Users can create an account to login and logout. Not required to use the site, but some features will not be available for them to use

Track: shows the current location of the ISS in latitude and longitude as well as an address if available

Search: look at attractions near the current location of the ISS

Forecast: displays the current weather conditions

Save: users can save where the ISS is currently at the time, along with places and the weather (which could be of interest if there's extreme weather at that location)

Profile: users can view all the locations and associated data they have saved (chronological order) and *possibly even others (and if possible, we can mark all the saved locations on a map)

***Accomplishments:** How many countries the user has saved and we will reward certain feats such as visiting all 7 continents (if we can)

Database Schema

User Info Table		
userID	user	password
PRIMARY KEY	TEXT	TEXT

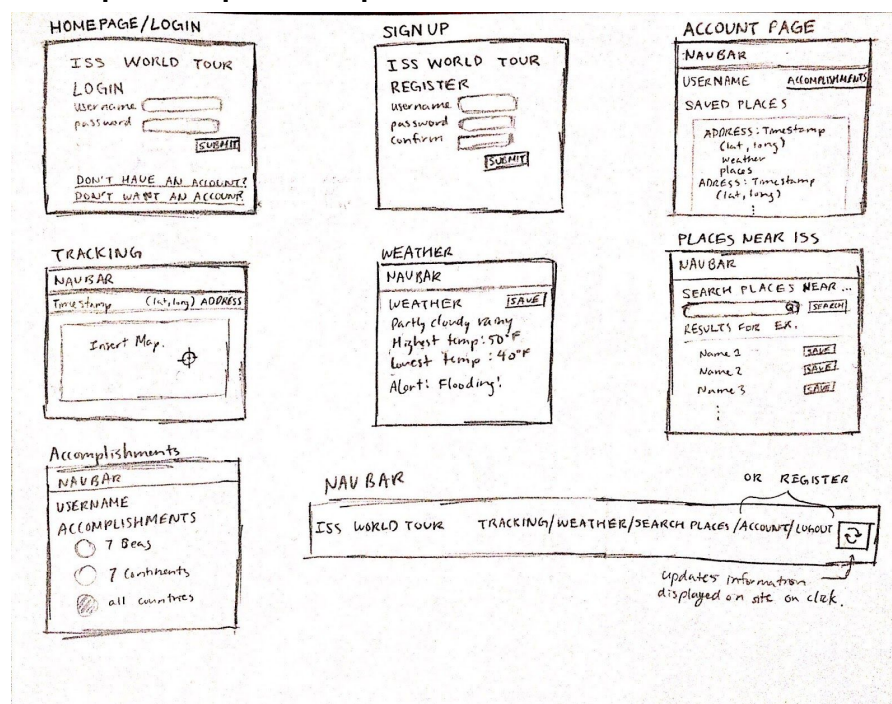
Saves									
user	times	lat	long	address	summary	high	low	curr	attraction
TEXT	TEXT	TEXT	TEXT	TEXT	TEXT	TEXT	TEXT	TEXT	TEXT

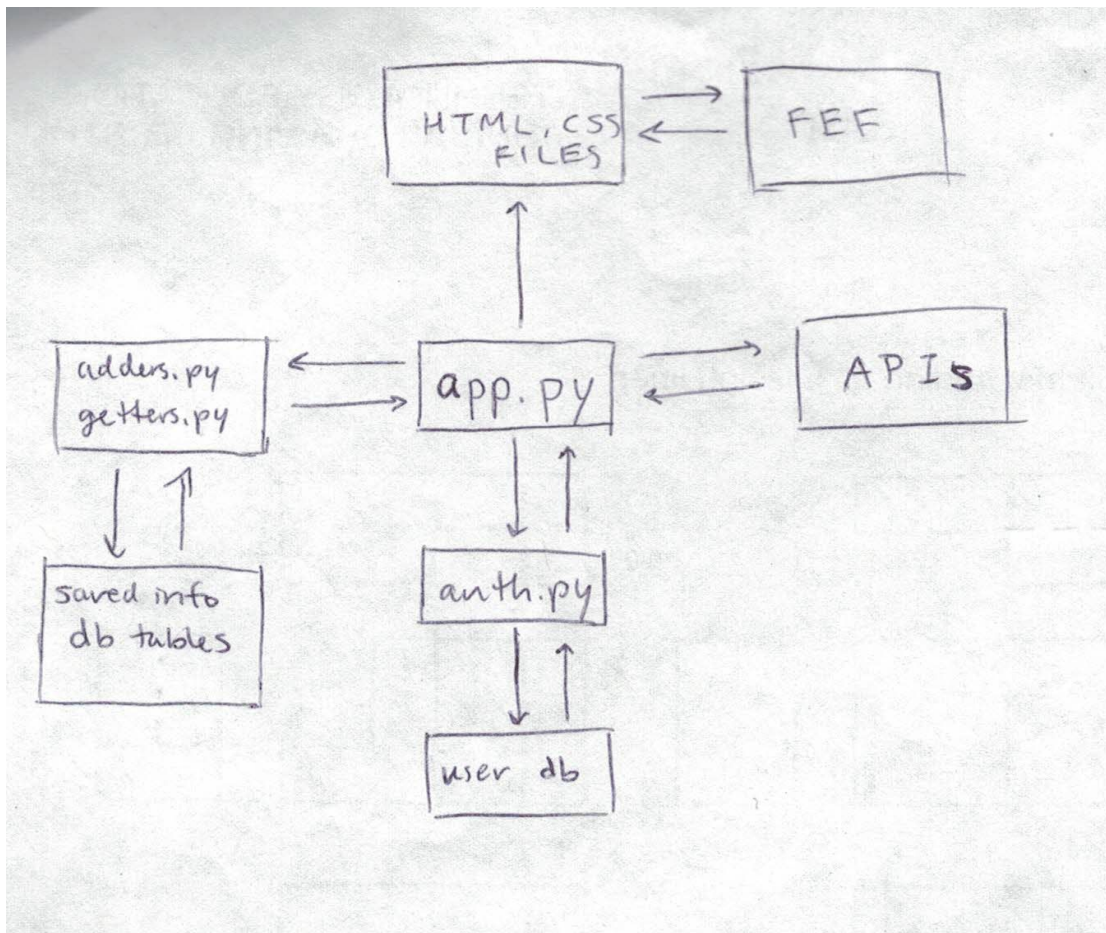
All of the saved information is related to a certain user at a certain time where the ISS was

Achievements table is WIP (extra)

Achievements Table	
user	achievements
TEXT	TEXT

SiteMap & ComponentMap





All accomplishment features are extra and places and weather are one page. We've removed searching and replaced alerts with the current temperature.

Tasks

Stage 0: The Bootstrap (Instead of The Foundation)

Project Manager Ricky: Create basic flask app that displays data from APIs, work with Sophia with make sure the templates are properly displaying data pulled from the APIs and/or database

Matthew: Responsible for understanding the APIs the most and obtain the necessary data from them, work with Mohammed to store the data in the database

Mohammed: Decide how to format database tables to store necessary information, write methods to add, edit, delete, and find useful entries in the database

Sophia: Code the basic HTML templates with jinja placeholders, responsible for designing the layout of the website

Stage 1: The MVP

Ricky: Logging in and out, registration, and saving user data about where he/she's been

Matthew: Work with MapQuest to pull and display nearby attraction data to the user

Mohammed: Work with the ISS to pull and display a map with the ISS' location

Sophia: Work with the Weather API to show the current weather in the location

Stage 2: The Sprinkles

Ricky: Possibly implement the Trivia API for more achievements (removed)

Matthew: Viewing other people's profiles (removed)

Mohammed: Achievements (on hold)

Sophia: Extra CSS Fanciness