

Lesson 21

(5 min)

Announcements:

- Final Project Survey – will help decide partner groups
- Everybody please take it at the end of class

(10 min)

Student Demo

- Python scraper for Alexa Skills Store
- How might we use this for our final projects?
- @Jack — how could you share this with us so we can all use it?

(15 min)

Generics in Java

- Show code in Generics Demo
- Talk about need for generics
- Talk about for each loop
- Talk about printf syntax for “format string”
 - Interesting other use cases

(5 min)

TidePooler Bug Fix

- The base URL needs to be “https” not “http” because the API requires a secure connection
 - It worked in the browser b/c it knew to correct the URL to “https”
 - Lambda doesn’t automatically do this
- After you fix this, you will run into a Timeout Error
 - Adjust to 1 min
- Whenever making API calls to another service, it takes several seconds, so you have to increase the timeout
- Also — the slowness in the first call, do you know why that is?
 - Because it’s spinning up a new server for our function, and that takes a few seconds
 - This allows them to let Lambda servers go dormant when not in use, which helps make AWS so inexpensive

(15 min)

TidePooler — Breakout Groups — Zoom

- Focus on 2 things:
 - Task 1: Create a diagram or some kind of visual (or write out the flow chart) of all the methods invoked (in order) when this sample utterance is said:
 - “when is high tide?”
 - Use log statements if needed
 - Task 2: Conceptual Challenge
 - What is the purpose of the CityDateValues<L, R> class?
 - How might you achieve the same purpose without generics?

(10 min)

Wrap Up

- Take Final Project Group survey
 - Final project groups will be announced later today
- Please plan to meet once before Thanksgiving to brainstorm final project ideas
 - I will let you all find a convenient time and coordinate
 - You should send out meeting invites as well
 - Send me a progress update (by email) after you have met