

Airbnb - Lab 6 artifact

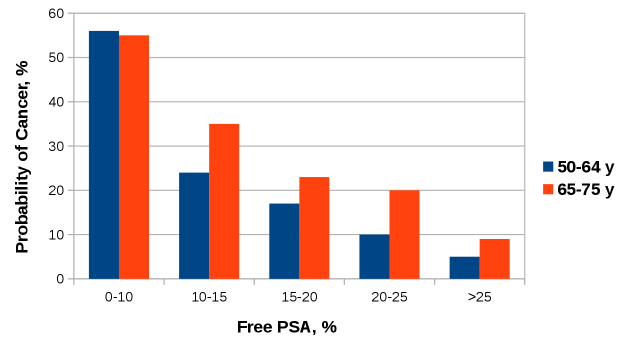
Features (user stories) to Implement in Next Sprint:

- **How does modifying the dataset change the analytics for how the number of Airbnb listings change over different provinces (neighborhood_group)? (listings.csv, neighbourhood.csv)**
 - **Feature 1:** as a user, I want to be able to update/create/delete a listing and see the new analytics afterwards.
- **How does modifying the dataset change the analytics for how a neighborhood impacts the listing's (price/availability)? (listings.csv, neighbourhood.csv)**
 - **Feature 2:** as a user, I want to be able to update/create/delete a listing and see the new analytics afterwards.
- **How does modifying the dataset change the analytics for how does room type impact the listing's (price/availability)? (listings.csv)**
 - **Feature 3:** as a user, I want to be able to update/create/delete a listing and see the new analytics afterwards.
- **How does modifying the dataset change the analytics for how does the number of reviews of a neighbourhood over a year impact availability? (listings.csv, calender.csv, neighbourhood.csv)**
 - **Feature 4:** as a user, I want to be able to update/create/delete a listing and see the new analytics afterwards.
- **How does modifying the dataset change the analytics for each hosts' yearly earning? (listings.csv)**
 - **Feature 5:** as a user, I want to be able to update/create/delete a listing and see the new analytics afterwards.
- **How does modifying the dataset change the analytics for average earnings in each province? (listings.csv, calender.csv)**
 - **Feature 6:** as a user, I want to be able to update/create/delete a listing and see the new analytics afterwards.

User test cases

Analytics table and graph (not accurate to displays)

info	info	info
-	-	-
-	-	-



time elapsed: 5.00 seconds

Time elapsed shows how long request took

Test Cases

- **Feature 1/2/3/4/5/6 test cases:** as a user, I want to be able to update/create/delete a listing and see the new analytics afterwards.
 - Test case 1: as a user, I create a new listing.
 - Correct output: the website, after creation, will show updated analytics on the “charts” page
 - Test case 2: as a user, I delete a listing.
 - Correct output: the website, after deletion, will show updated analytics on the “charts” page
 - Test case 3: as a user, I modify a listing.
 - Correct output: the website, after modifying, will show updated analytics on the “charts” page

TODO LIST

Done list of last sprint:

- Backend program to calculate the number of reviews over a neighbourhood in a year and the availability the neighbourhood had
 - [finished by Vivian Tsai and verified by everyone]
- Backend program to calculate the total earning per host and the amount of listings a host had
 - [finished by Vivian Tsai and verified by everyone]
- Backend program to calculate the average earnings of a host in a province (neighbourhood_group)
 - [finished by Richard Liu and verified by everyone]
- Create front end components for displaying neighbourhood reviews and availability analysis
 - [finished by Jinhuan Liu and verified by everyone]
- Create front end components for displaying individual host earning analysis
 - [finished by Jinhuan Liu and verified by everyone]
- Create front end components for average earnings of hosts in different provinces.
 - [finished by Yinjie Xie and verified by everyone]
- Backend program to modify logic to use API for the three features
 - [finished by Yinjie Xie and verified by everyone]
- Backend program to modify REST API to include a GET request for the three features
 - [finished by Ruth Navarrete and verified by everyone]
- Testing
 - [finished by Ruth Navarrete and verified by everyone]

ToDo task list for the next sprint:

- Frontend component to display how long results took for each analysis

- Acceptance criteria: sends request to backend and displays the received results in a table and diagram
- Backend component to modify the REST API to have if-else statements to determine if global arrays need to be populated and to have a timer that begins at the start of the API call and ends right before returning the response
 - Acceptance criteria: receives request from the frontend and returns a JSON array of analysis and time it took to complete
- Backend component to modify the REST API to have the create, delete, and update APIs update the global arrays for a single listing, and import API empty the global arrays
 - Acceptance criteria: receives request from the frontend and returns original criteria for create/update/delete
- Modify feature 1's backend component to allow for an analysis on an entire dataset or modify the existing analysis for one modified(update/create/delete) component.
 - Acceptance criteria: returns JSON array of analysis
- Modify feature 2's backend component to allow for an analysis on an entire dataset or modify the existing analysis for one modified(update/create/delete) component.
 - Acceptance criteria: returns JSON array of analysis
- Modify feature 3's backend component to allow for an analysis on an entire dataset or modify the existing analysis for one modified(update/create/delete) component.
 - Acceptance criteria: returns JSON array of analysis
- Modify feature 4's backend component to allow for an analysis on an entire dataset or modify the existing analysis for one modified(update/create/delete) component.
 - Acceptance criteria: returns JSON array of analysis
- Modify feature 5's backend component to allow for an analysis on an entire dataset or modify the existing analysis for one modified(update/create/delete) component.
 - Acceptance criteria: returns JSON array of analysis
- Modify feature 6's backend component to allow for an analysis on an entire dataset or modify the existing analysis for one modified(update/create/delete) component.
 - Acceptance criteria: returns JSON array of analysis
- Testing
 - Acceptance criteria: all functions and updates to functions return correct results in JSON array format