

Sprint-5 Artifact

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Features (Analytics to implement):

- Feature 1 : As a User, I want to see bar charts represent the data
- Feature 2 : As a User, I want to see the averages of country/states data
- Feature 3 : As a User, I want to see the standard deviation of specified state in country
- Feature 4 : As a User, I want to see a percentage of specified state in specified country

Test Cases

- Feature 1 : I want to have bar charts represent the data
 - Test Case 1: User inputs country
 - Correct output : Display a bar chart representing countries
 - Test Case 2: No Input
 - Correct output : Display a bar chart representing countries
- Feature 2 : I want to see the average of deaths, confirmed, and recovered
 - Test Case 1: User inputs state
 - Correct output: Display the average deaths, confirmed, and recovered
 - Test Case 2: User doesn't input a state
 - Correct output: Display the averages of deaths, confirmed, and recovered for all states
- Feature 3 : I want to see the standard deviation of specified state in country
 - Test Case 1: Input of Country and State
 - Correct output: Standard deviation of specified state in specified country
 - Test Case 2: Input Country only
 - Correct output: Standard deviation of Country compared to the rest of the world
 - Test Case 3: Input State only
 - Correct output: Standard deviation of specified state in specified country
 - Test Case 4: No input
 - Correct output: Returns nothing (some message)
- Feature 4 : I want to see percentage of specified state in specified country
 - Test Case 1: Input of Country and State
 - Correct output: Percentage of specified state in specified country
 - Test Case 2: Input Country only
 - Correct output: Percentage of that Country compared to the rest of the world
 - Test Case 3: Input State only
 - Correct output: Percentage of specified state in specified country
 - Test Case 4: No input
 - Correct output: Returns nothing (some message)

TODO LIST

Done list of last sprint

- Set up backend functions
 - Return top 5 countries with most deaths
 - Alan, Kent, Ryan
 - Return top 5 states with most cases
 - Alan, Kent, Ryan

- Return top 5 states with most deaths
 - Alan, Kent, Ryan
- Return top 5 states with most recovered
 - Alan, Kent, Ryan
- Frontend GUI
 - Kevin
- Setup Frontend + Backup Endpoints
 - Kevin
- Charts and display analytics
 - Alex

TODO task list for the next sprint:

- Backend functions
 - Standard Deviation
 - Alan, Kent, Ryan
 - Averages
 - Alan, Kent, Ryan
 - Percentages
 - Alan, Kent, Ryan
- Pie Chart
 - Alex
- Frontend GUI
 - Kevin
- Setup Frontend + Backup Endpoints
 - Kevin

GUI Design

Introduction

Country	State/Province	Type	Date
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Submit Button

Country	State/Province	Type	Date	Amount
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Insert

Edit

Delete

Backup

Top 5 Deaths (country) Bar Chart	Avg Confirmed (state)	Avg Recovered (state)	Avg Deaths (state)
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Std Dev Confirmed (state)	Std Dev Recovered (state)	Std Dev Deaths (state)
Percentages Confirmed (state)	Percentages Recovered (state)	Percentages Deaths (state)

Data