Heatmap implementation

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| User Story | Tasks | Day 1 | Day 2 | Day3 | Day 4 | Day 5 | Day 6 | Day 7 | Day 8 | Day 9 |
| 1. display a heatmap of newest sales information | Write async task in order make calls to the backend API to return list of near places from maps activity | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 3 |
| Create endpoints class method that queries the DB index to return data points around a LatLong point in a specific range | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 3 | 0 |
| Create endpoints class method that inserts entities into the DB | 0 | 0 | 0 | 0 | 1 done | done | done | done | done |
| Create methods to calculate distance in kilometers in between LatLong points | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Create method to calculate visible map in kilometers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Add buttons that allow swapping between views | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3  done |
| Add button functionality (on updateHeatmap() make call to backend to update displayed data if necessary) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2. preprocess data | Write a servlet that creates an index on the Datasore of available sales information data | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| Implement an OfyService class to query and persist DB | 0 | 0 | 0 | 0 | 3  done | done | done | done | done |
| Write helper class that creates document to put in index and searches through the documents in the index by proximity | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 2 | 2 |
| Add latitude and longitude data to initial csv file | 0 | 0 | 0 | 5 | 5 | 0 | 0 | 2 | 3 |
| Remove redundancy from csv file( keep only newest sales data) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Upload csv file to datastore | 0 | 0 | 0 | 4 | 4 | 4 | 0 | 0 | 0 |
| 3.create a database of all sales data | Create a google datastore entity model for the supplied sales data | 2 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Configure Datastore API for python to use bulkloader | 0 | 0 | 0 | 0 | 3 | 3 | 5 | 8 | 8 |
| Create a Data folder in the backend that contains the bulkloader configuration with instructions | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 0 | 0 |

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| User Story | Tasks | Day 10 | Day 11 | Day 12 | Day 13 | Day 14 | Day 15 | Day 16 | Day 17 | Day 18 |
| 1. display a heatmap of newest sales information | Write async task in order make calls to the backend API to return list of near places from maps activity | done | done | done | done | done | done | done | done | done |
| Create endpoints class method that queries the DB index to return data points around a LatLong point in a specific range | 0 | 0 | 3 | 3 | 3 | 5 | 5 | 8 | 7  done |
| Create endpoints class method that inserts entities into the DB | done | done | done | done | done | done | done | done | done |
| Create methods to calculate distance in kilometers in between LatLong points | 0 | 2  done | done | done | done | done | done | done | done |
| Create method to calculate visible map in kilometers | 0 | 3  done | done | done | done | done | done | done | done |
| Add buttons that allow swapping between views | done | done | done | done | done | done | done | done | done |
| Add button functionality (on updateHeatmap() make call to backend to update displayed data if necessary) | 3 | 1 | 2  done | done | done | done | done | done | done |
| 2. preprocess data | Write a servlet that creates an index on the Datasore of available sales information data | 2 | 2 | 0 | 0 | 0 | 2  done | 0 | 0 | 0 |
| Implement an OfyService class to query and persist DB | done | done | done | done | done | done | done | done | done |
| Write helper class that creates document to put in index and searches through the documents in the index by proximity | 2 | 0 | 0 | 0 | 5 | 4  done | done | done | done |
| Add latitude and longitude data to initial csv file | 2 | 2 | 2 | 4  done | done | done | done | done | done |
| Remove redundancy from csv file( keep only newest sales data) | 0 | 2 | 2 | 0 | 4  done | done | done | done | done |
| Upload csv file to datastore | 2 | 2 | 2 | 2 | 2 | 2 | 5 | 4 | 4 |
| 3.create a database of all sales data | Create a google datastore entity model for the supplied sales data | 2 | 0 | 0 | 0 | 3 | 3 | 3  done | done | done |
| Configure Datastore API for python to use bulkloader | 3 | 3 | 3 | 3  done | done | done | done | done | done |
| Create a Data folder in the backend that contains the bulkloader configuration and csv file with instructions | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 0 | 3  done |