

DEATH RATE FINDER

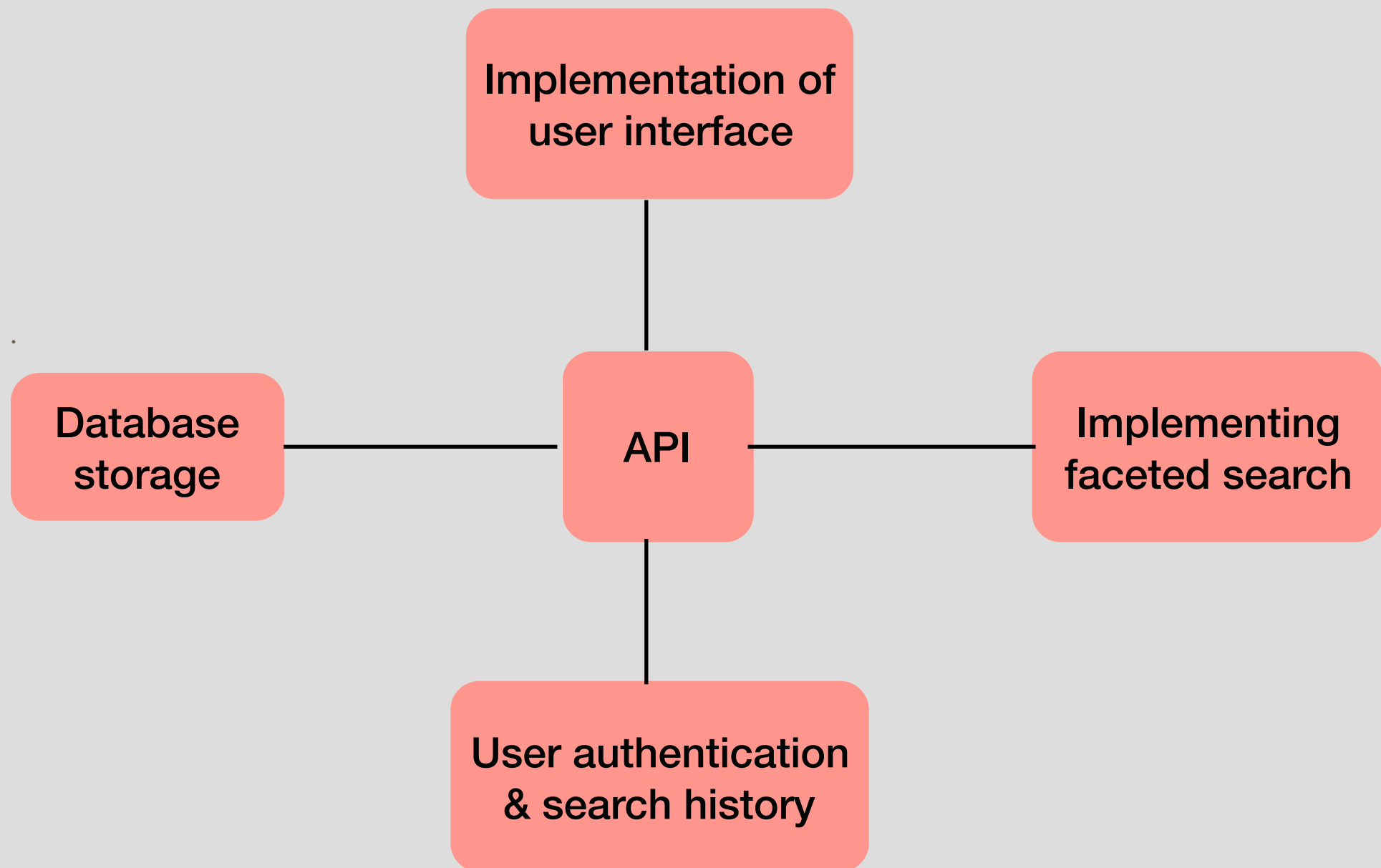


Ashwini Giri
Isha Patil

FUNCTIONALITIES

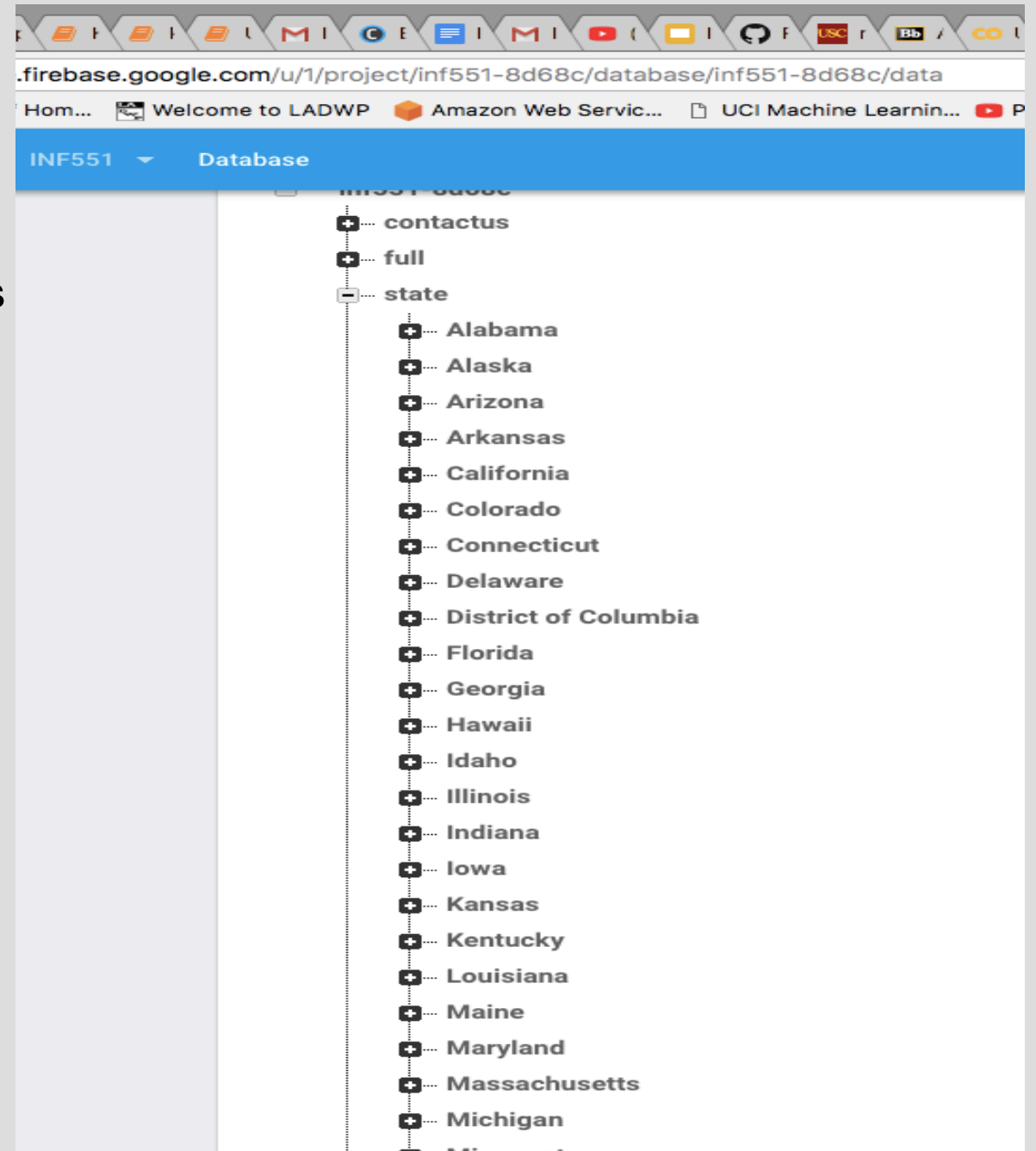
- Web application to search information about death based on state.
- Search can be filtered based on cause of death, year of death and number of deaths.
- Data stored on google firebase cloud storage.
- User login, signup and logout using the email authentication provided by firebase.
- Save searches for future reference.
- Contact Us page for addressing user queries.

WORKFLOW



DATABASE STORAGE

- The death data is fetched from <https://catalog.data.gov/dataset/age-adjusted-death-rates-for-the-top-10-leading-causes-of-death-united-states-2013>
 - The data is stored in firebase in the form of nodes and keys for easy access and search.
 - Created an inverted index on the state of death for implementation of search functionality.
- DATA ATTRIBUTES-
 1. Year {Facet}
 2. Cause name {Facet}
 3. Number of deaths {Facet}
 4. Age adjusted death rate
 5. Scientific cause name
 6. State of death occurrence {Keyword search}

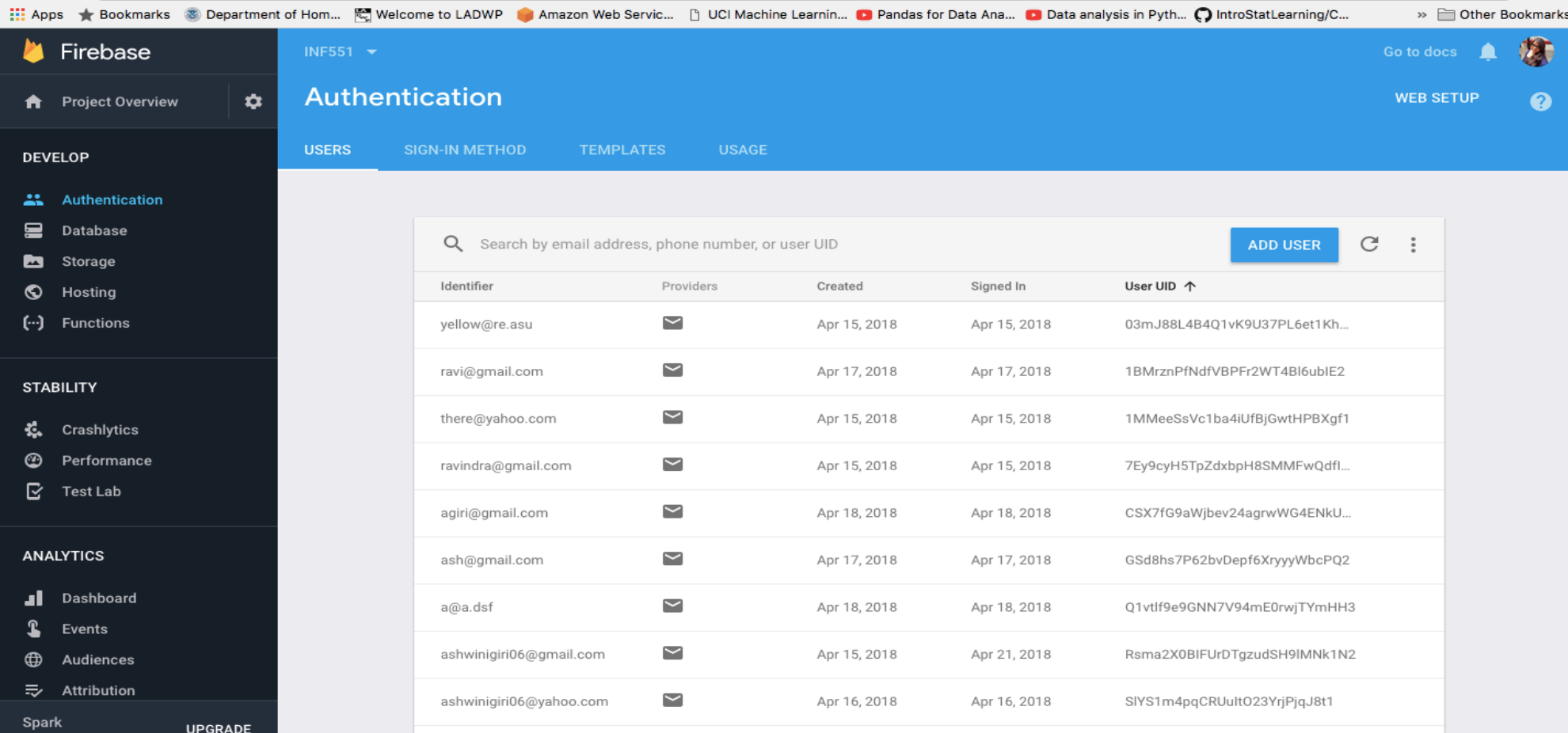


HOME PAGE & UI



- Provided login and signup on the homepage.
- The contact us page can also be addressed from the homepage.
- The UI is implemented using basic HTML, CSS and JavaScript functions.

User Authentication



The screenshot shows the Firebase Authentication console for project INF551. The left sidebar contains navigation links for Project Overview, DEVELOP (Authentication, Database, Storage, Hosting, Functions), STABILITY (Crashlytics, Performance, Test Lab), ANALYTICS (Dashboard, Events, Audiences, Attribution), and Spark. The main content area is titled 'Authentication' and includes tabs for USERS, SIGN-IN METHOD, TEMPLATES, and USAGE. The 'USERS' tab is active, displaying a table of users with columns for Identifier, Providers, Created, Signed In, and User UID. A search bar and an 'ADD USER' button are at the top of the table.

Identifier	Providers	Created	Signed In	User UID ↑
yellow@re.asu	✉	Apr 15, 2018	Apr 15, 2018	03mJ88L4B4Q1vK9U37PL6et1Kh...
ravi@gmail.com	✉	Apr 17, 2018	Apr 17, 2018	1BMrznPfNdfVBPFr2WT4Bl6ublE2
there@yahoo.com	✉	Apr 15, 2018	Apr 15, 2018	1MMeeSsVc1ba4iUfBjGwtHPBXgf1
ravindra@gmail.com	✉	Apr 15, 2018	Apr 15, 2018	7Ey9cyH5TpZdxbpH8SMMFwQdfl...
agiri@gmail.com	✉	Apr 18, 2018	Apr 18, 2018	CSX7fG9aWjbev24agrwWG4ENkU...
ash@gmail.com	✉	Apr 17, 2018	Apr 17, 2018	GSd8hs7P62bvDepf6XryyyWbcPQ2
a@a.dsrf	✉	Apr 18, 2018	Apr 18, 2018	Q1vtlf9e9GNN7V94mE0rwjTYmHH3
ashwinigiri06@gmail.com	✉	Apr 15, 2018	Apr 21, 2018	Rsma2X0BIFUrDTgzudSH9IMNk1N2
ashwinigiri06@yahoo.com	✉	Apr 16, 2018	Apr 16, 2018	SIYS1m4pqCRUultO23YrjPjqJ8t1

- Users are authenticated using the email authentication provided by firebase.

FACETED SEARCH

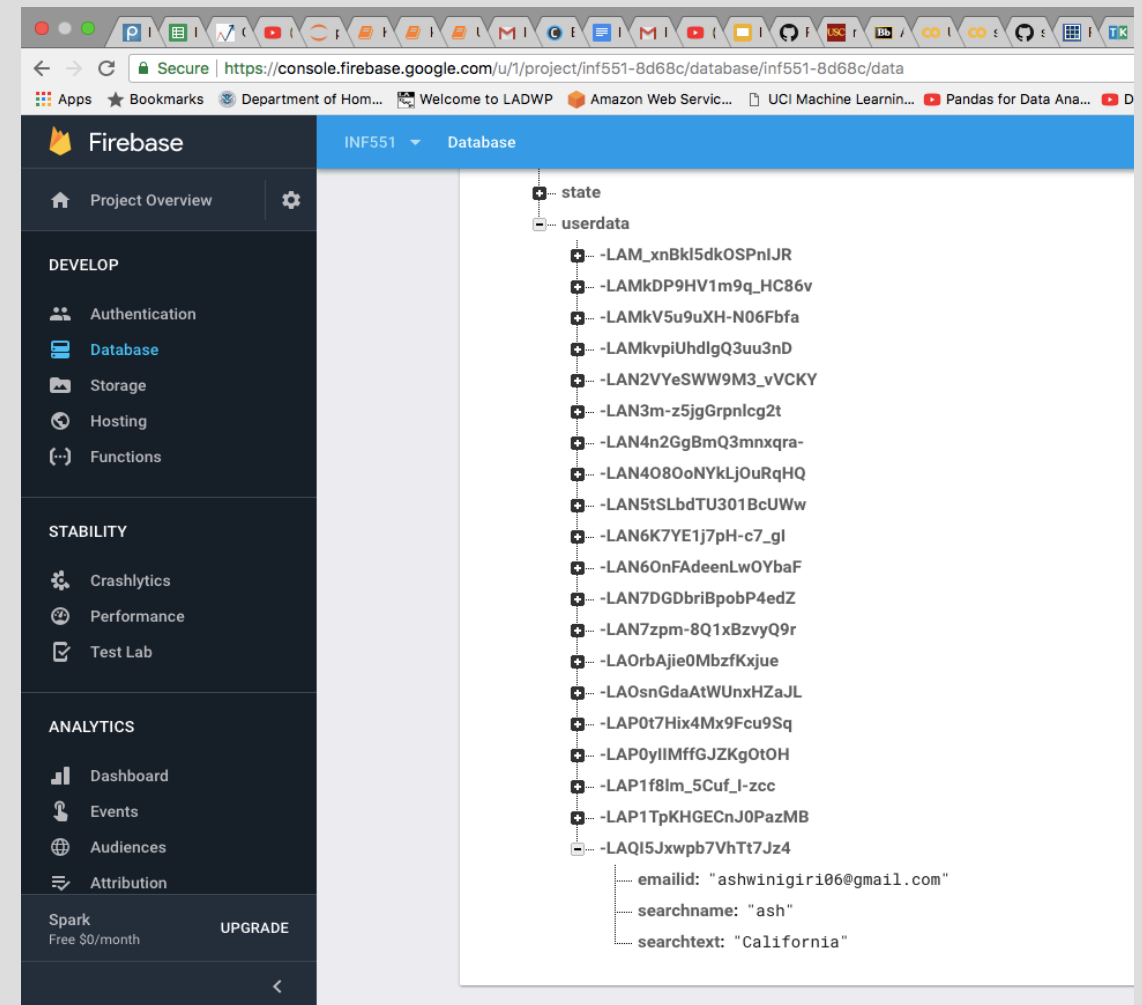
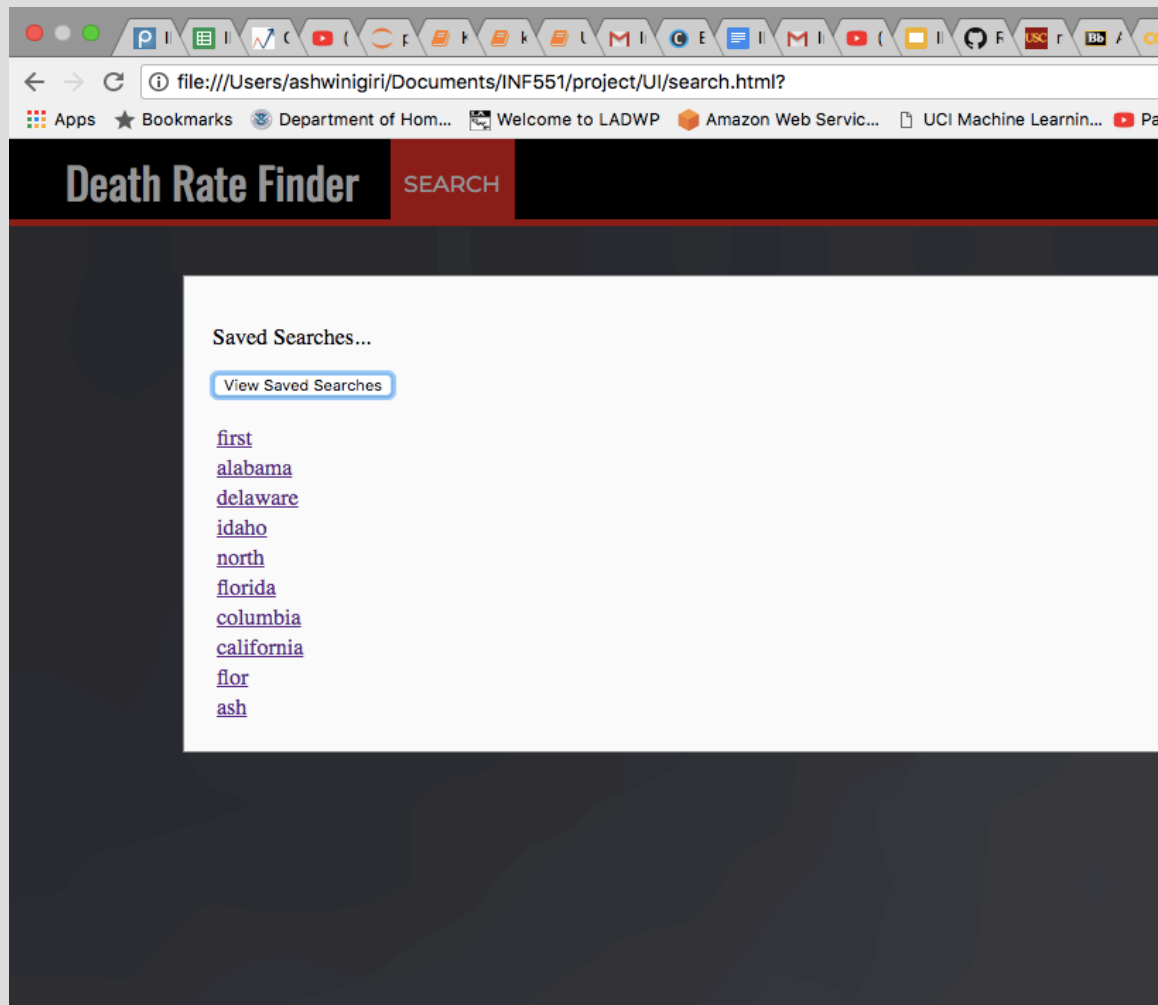
The screenshot shows a web browser window with the URL `file:///Users/ashwinigiri/Documents/INF551/project/UI/search.html?`. The browser's address bar and bookmarks are visible. The application interface has a dark theme. At the top, there is a navigation bar with the text "Death Rate Finder" on the left, a red "SEARCH" button in the center, and a yellow "LogOut" button on the right. Below the navigation bar, there is a "My Searches" button. The main content area is titled "Search state of death...". On the left side, there are two filter sections: "Year" and "Cause of Death". The "Year" section lists years from 1999 to 2015, with 1999 selected. The "Cause of Death" section lists various causes, with "All Causes" selected. On the right side, there is a search input field containing the text "California". Below the input field is a green "Save Search" button. The search results are displayed in a table with three rows. Each row shows the "Cause Name: Unintentional Injuries", the "113 Cause Name: Accidents (unintentional injuries) (V01-X59,Y85-Y86)", the "Deaths" count, the "Year", and the "Age Adjusted Death Rate".

Year	Deaths	Age Adjusted Death Rate
1999	9198	28.7
2000	8577	26.5
2001	8132	24.5

After user login the search provides 3 filters for data

1. Cause of death.
2. State of death.
3. Year of death/s.

Save User Search History



- The current logged in user can save the search and also retrieve already saved searches.
- User's search history is saved on firebase database.

Contact Us

file:///Users/ashwinigiri/Documents/INF551/project/UI/contact.html

Death Rate Finder HOME ABOUT ME CONTACT US

Send Us a Message

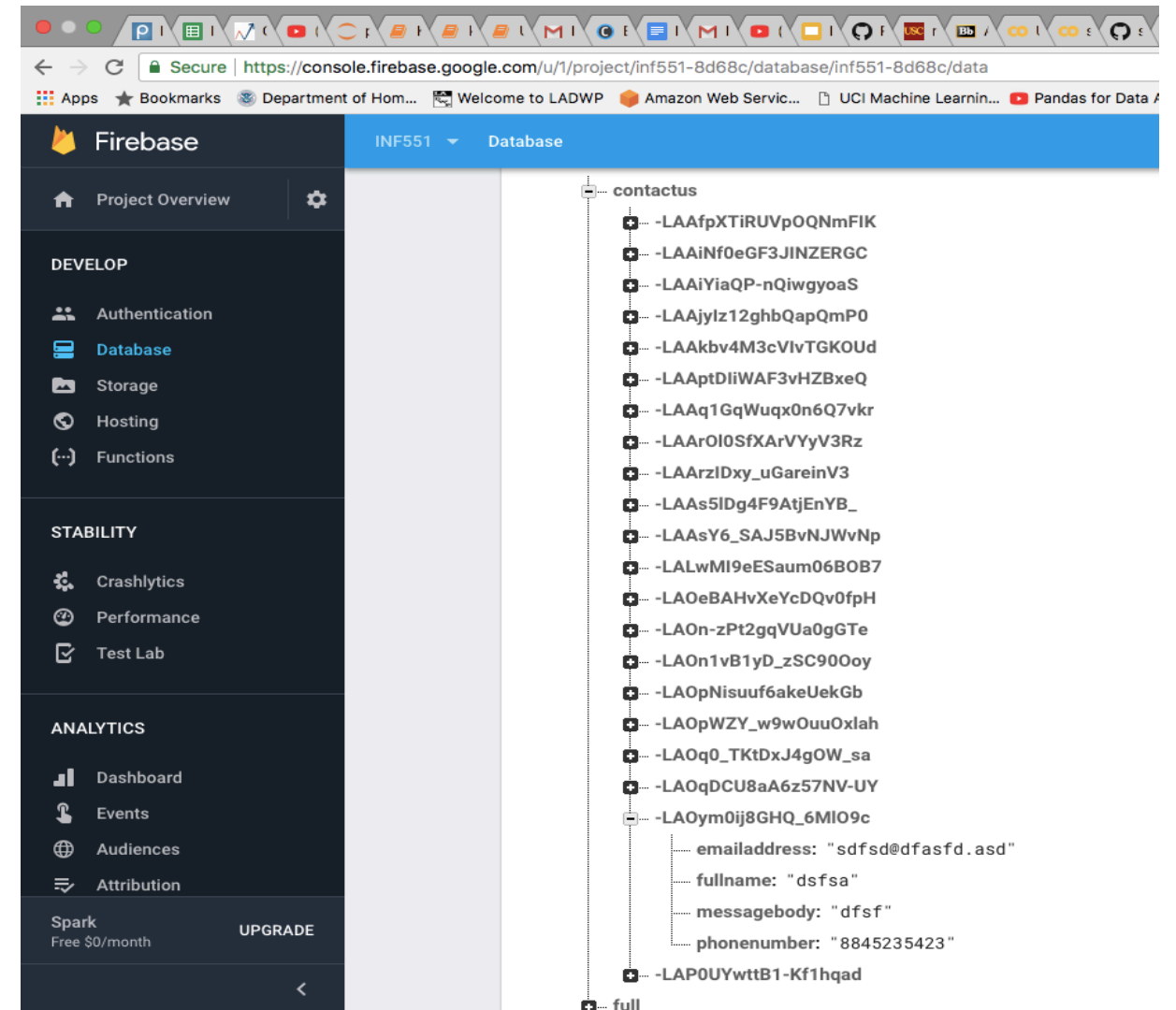
ash

Enter Full Name...

Enter phone number...

Enter message here...

Submit

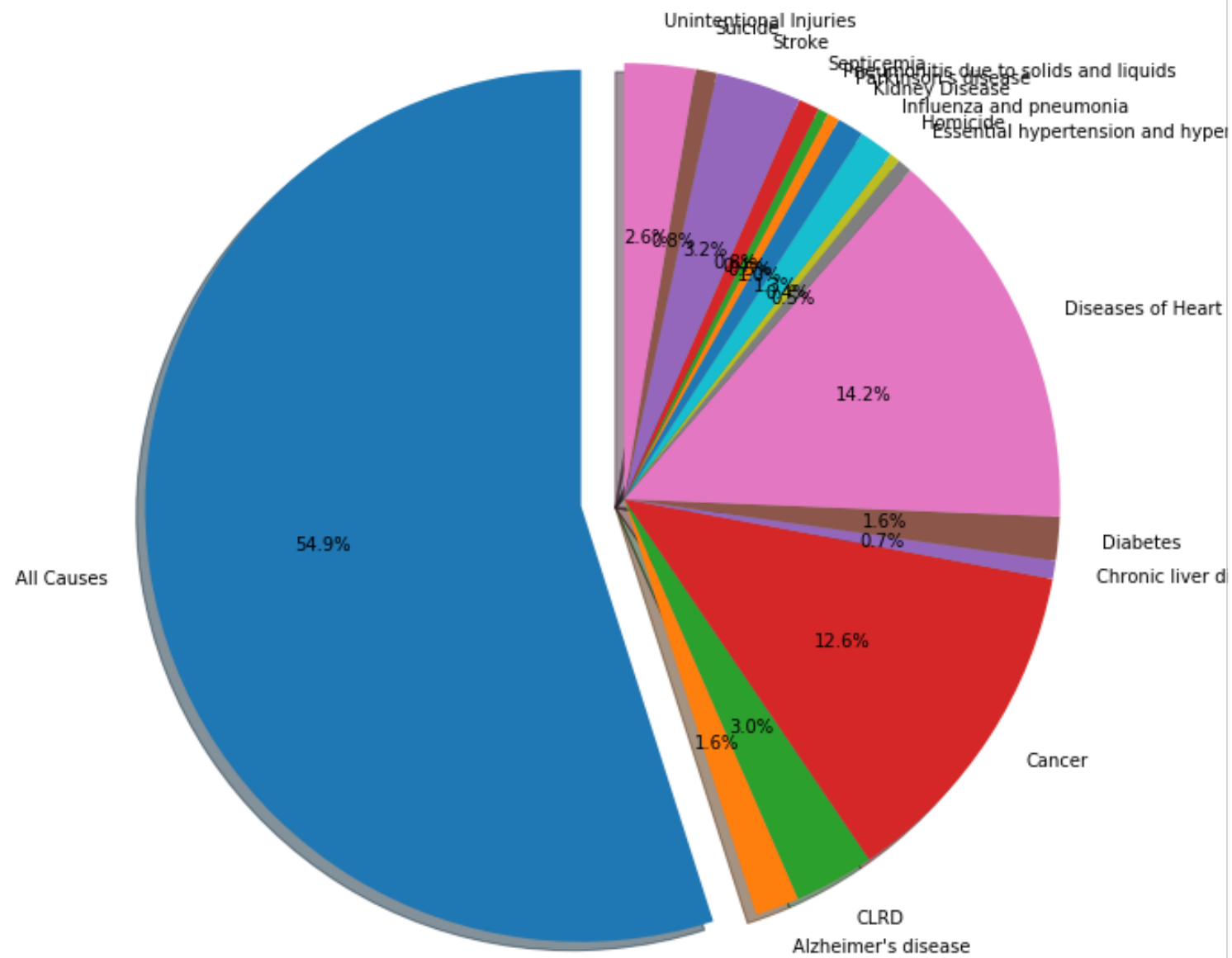


- User can send their queries to the developer team.
- Data is saved on firebase database.

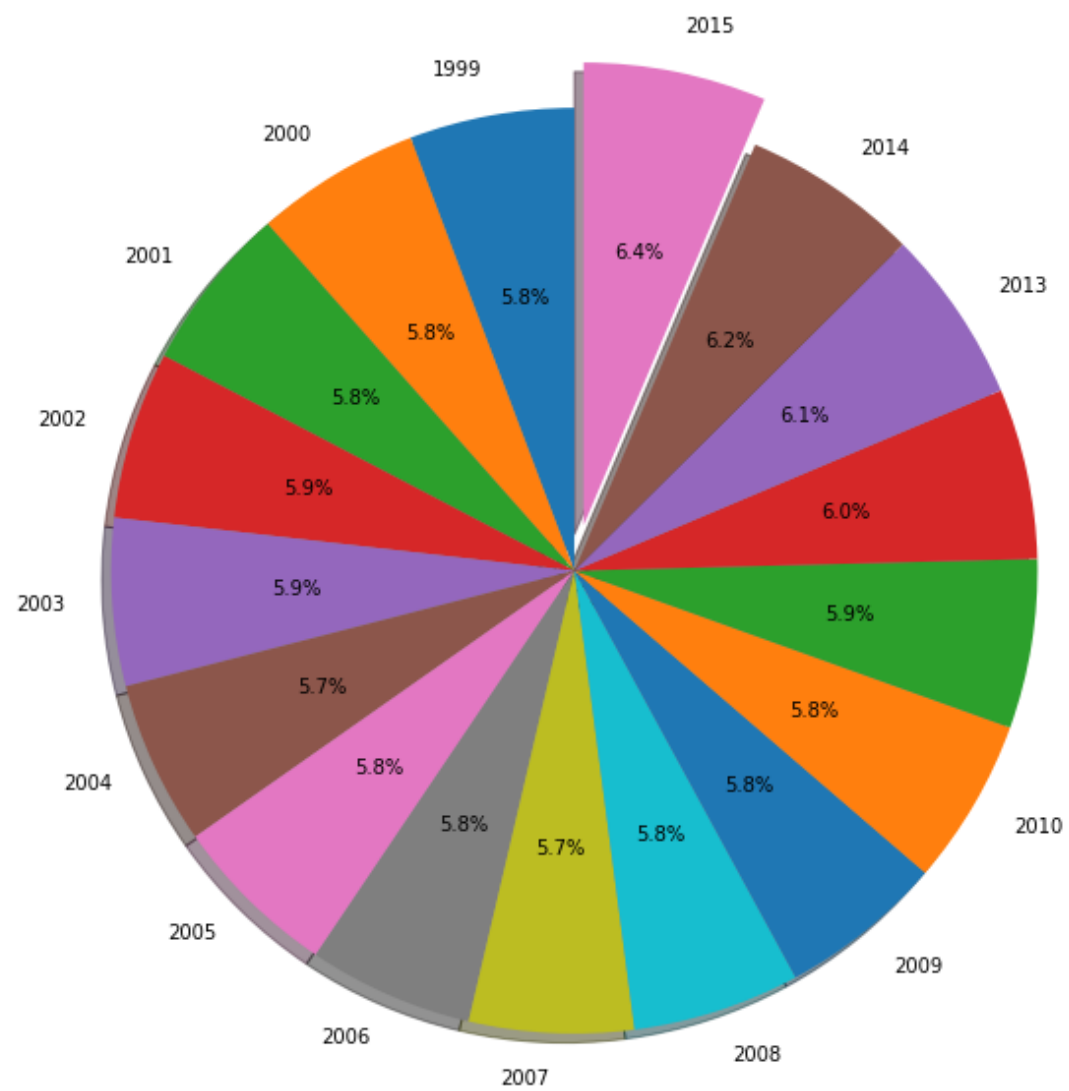
Real World Use

- Medical researchers may use this application for diagnosis.
- Government may use the application for census monitoring and population information purposes (filter based on number of death)
- Epidemiological surveys (filter based on cause of death)
- The application may be used by general public for informative purposes
- This application can be combined and used as a part of other applications.

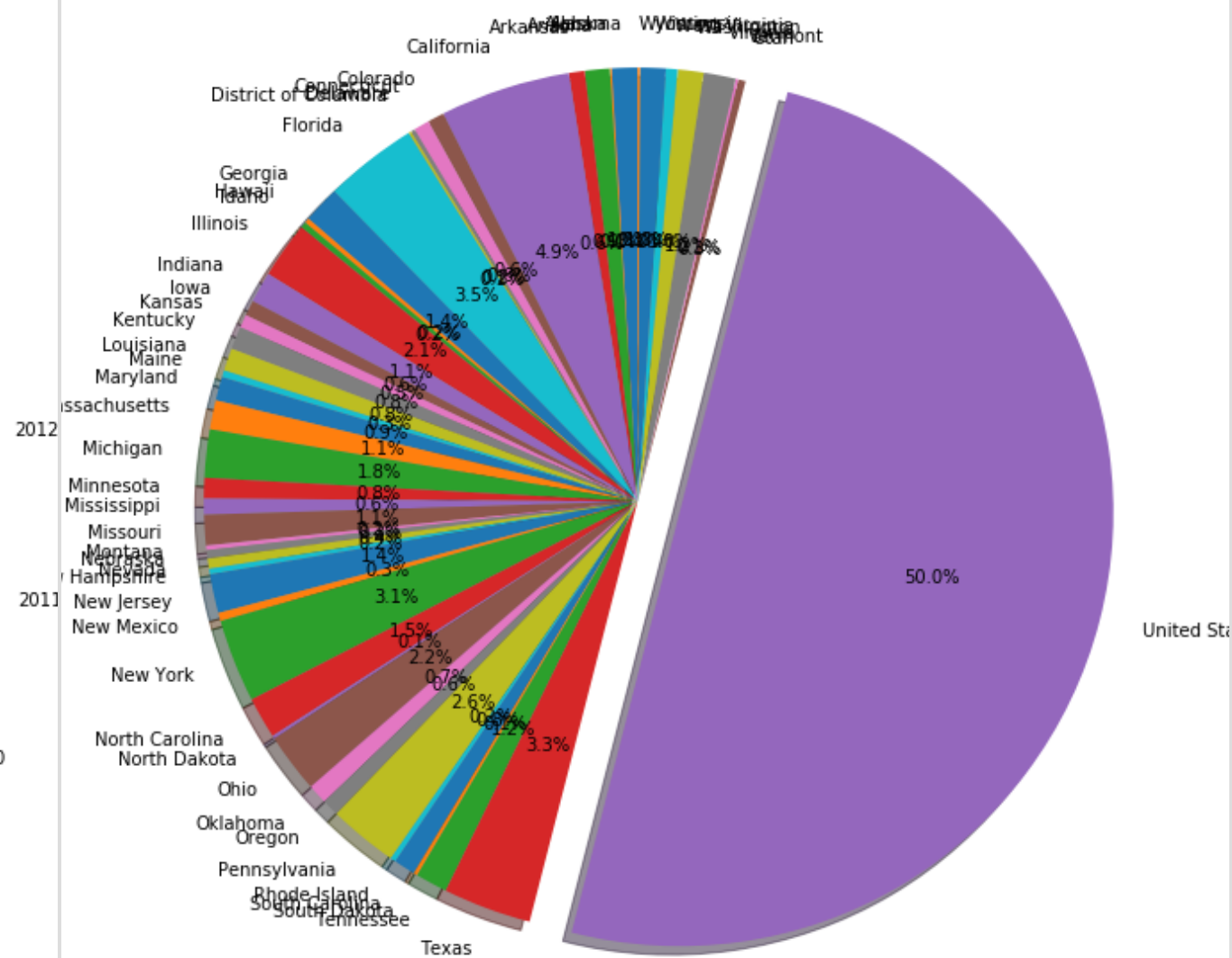
Some Data Inferences



Deaths by cause



Deaths by years



Deaths by states

THANK YOU !!