**575 Final Projection Proposal: Group:**

# Target User Profile (Persona):

# User Case Scenarios

# Requirements Document

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| **Representation** | | |
| **1** | **Basemap** | The outline of the Chicago (boundary): natural earth |
| **2** | **Crime** | The locations of crimes occurred in Chicago: <http://openflights.org/> |
| **3** | **Restaurant** | The locations of restaurants, types of food provided, and rating. https://[www.transtats.bts.gov/OT\_Delay/OT\_DelayCause1.asp](http://www.transtats.bts.gov/OT_Delay/OT_DelayCause1.asp) Depicted either by animation or route color |
| **4** | **Ethnicity** | The ethnicity composition by census track |
| **5** | **School** | The locations of school in Chicago |
| **6** | **Timeline** | Depict the average delay minutes per airline over time, line graph |
| **7** | **Legend** | Visual description routes by airline using color |
| **8** | **Overview** | Documentation on the background description and user guideline |
| **Interaction** | | |
| **1** | **Query Panel** | Filter: Time. Adjust the occur time for a crime (e.g. month, day of week, hour) |
| **2** | **Neighborhood ethnicity** | Sequence: Objects. Rank by the proportion of ethnicity within a neighborhold . |
| **3** | **Layer toggle** | Overlay: Objects. Turn on/off the different layers, including layers for tourist attracting, school, and crime. |
| **4** | **Priority Selection** | Reexpress: Object. Map visual hierarchy changes to show preferred route. Sequence: Objects. Dynamically rank results based on priority, delay, overall time, or price in results panel |
| **5** | **Route Selection** | Retrieve: Objects. Hover to highlight route, timeline, and results |
| **6** | **Timeline Hover** | Retrieve: Objects. Hover over a year on the timeline to get average delay values for each airline |
| **7** | **Tourist attraction Hover** | Retrieve: Objects: Hover over a tourist attraction to get a short description and average ratings. |
| **8** | **Crime hover** | Retrieve: Objects: Hover over a crime to retrieve the short description of that crime, occur time, and types of crime |
| **8** | **Search Neighborhood** | Search: Objects. Type in a neighborhood name in the search box and the corresponding neighborhood will be highlighted |
| **9** | **Arrange Neighborhood** | Arrange: Objects. User can view the location on the map and view the ranking by neighborhood in the bar chart below |











