The first sprint will kickoff the program by focusing on the Database Layer and likely exclusively SQL. Upon completion, both tbl\_RareAnimal, and tbl\_AirParticulate will be normalized, scrubbed, and CRUD complete within the DB\_Radagast database. Additionally, the following S-Procs will be scripted:

1. tbl\_RareAnimal: SP\_InsertAnimalMarker, SP\_GetAnimalMarkerByID, SP\_GetUniqueSpecies, SP\_GetAnimalMarkerBySpecies, SP\_UpdateAnimalMarkerByID, and SP\_DeleteAnimalMarkerByID.
2. tbl\_AirParticulate: SP\_InsertAirParticulate, SP\_GetAirParticulateByID, SP\_UpdateAirParticulateByID, andSP\_DeleteAirParticulateByID.

The second sprint will initiate the presentation layer and logic layers for the site markers and animal sightings. The website and C# will READ the location marker information from the SQL database using the stored procedures from Sprint 1. Since there is a new table in the database (tbl\_Sites) we added a handful of new stored procedures. Also we decided on the implementation of a dropdown menu to filter the sites by genus. (sp\_deletesitebyid, sp\_getallsites, sp\_getanimalsbysiteId, sp\_getanimalbygenusandsite, sp\_genusbyanimalcommonname, sp\_getsitemarkerbygenus)

The third sprint will focus on the overlay and heatmap user interactions. During this sprint, we will be introducing the heatmap and overlay. The heatmap is based on values read from tbl\_AirParticulate. There will be user interaction to create new sites to tbl\_AirParticulate and delete sites from the database. The overlay will essentially be hardcoded into the C# layer. The only aspect of user interaction with the overlay will be altering the opacity.

The fourth and final sprint will be focusing on those aspects which are additional to the base goals of the program, (polylines) as well as establishing a neat and logical final version of the website.

1. Implement code which creates polylines on the Business Logic Layer. The polylines will be very closely linked to the markers code. This allows for the same drop-down menu to selectively show polylines, and for CRUD on the presentation layer. By creating, updating, or deleting a marker it also will potentially create, update, or delete a polyline. Polylines were styled using a graduated color scheme which is affected by the number of visible sites at that time.
2. Adjust the CSS to feature the map and limit the amount of screen taking away from it by other information.