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Project 2 Report

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**The Park**:

* I selected Lassen Volcanic National Park, located in northern California because it is one of the few National Parks that I have been to. It is highlighted by volcanoes and an area called the “Painted Dunes”, a pumice field of bright red and orange spots created from ash landing on lava flows from the nearby Cinder Cone volcano.

**Solution**:

* UI:
  + Created a webpage using ArcGIS JavaScript API
  + Navigation tools: zoom in/out, home (original extent), and a current location button. I also included a bookmarks widget for users to create their own saved extents.
  + There is also a search function, map layer list that can be used to toggle layer visibility and act as a legend, basemap toggle (topography/imagery), and a dynamic scale bar in km and miles
  + There is an information button that opens a modal with information pointing towards the “Add point of interest” button
  + The logo in the banner links to the NPS site and the title links to the park’s page
  + The features are clickable and provide a popup of relevant information
  + The features cluster based on zoom-level
  + The main feature is the editor, which allows the user to plot points of interest on the map. After adding a feature, the user can give the point a name and a description. The user can also edit points of interest.
  + The layer list, editor, and bookmarks are collapsible and are defaulted to collapsed when opening the page
* Backend
  + Data were downloaded from the National Park Service and relevant selections were exported to ArcGIS Online as feature layers through ArcGIS Pro
    - Layers: hiking trails, trailheads, restrooms, campgrounds, and points of interest
    - Points of interest was made editable for users to be able to add/edit points

Diagram

Description automatically generated