# Description

**A “Project Description” document (2-3 pages is sufficient) overviewing the project, with 1 or more visuals showing the components and how they fit together (e.g. similar to the diagrams shown in class for projects 01 and 02). Submit a PDF on Canvas under the assignment “Final Project: Description”.**

## Purpose of tool

From the (submitted) form:

Our project idea is to create a trip planner for bird watchers. Basically, users input their rough location (or exact, tbd), choose a specific bird species and location that interests them, and then get back directions to the birdwatching spot. We are still figuring out some of the details for the architecture but the key operations that the server will be handling will be (through AWS lambda functions) 1. calling an API or other tool that converts addresses to latitude and longitude coordinates 2. calling the eBird API to retrieve recent bird observations in an area and 3. calling a trip planner API that returns the optimal route from x to y given a specified preferred mode of travel (walk, bike, train, car). We are thinking of incorporating a database that stores already used addresses to save time computing their coordinates and also perhaps a table that stores already planned routes so that one can easily access them after computing them for the first time. For this we would most likely use AWS RDS. We may also use encryption to store the user's data. To conclude, the overall architecture of the project will be similar to project 3.

## Non-trivial operations;

## Lambda functions

## Api config

* url:
* is the API documented in the project description
* (e.g. which functions are GET, POST, PUT? what are the urls for each API call?)

## Prompts for client

## Configuration file of client:

## Architecture diagram

A whiteboard with writing and notes

Description automatically generated with medium confidence