My Vacation

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This program is composed of an Angular front end and a Django backend with a SQLite database. The program has three primary views, the root page, the results page, and an error page. The root page contains the form which the user would fill out the request a list of flights from the backend. They can choose between a one way flight or a round trip, depending on their selection they would then select the depart and return dates if they selected round trip or just the depart dates if they selected round trip. The user is required to select a state and city for the flights from location, upon selecting the state a list of cities is populated in the cities drop down field. The to location’s state and city is a optional field that acts similarly to the from location fields where the cities populate upon selection of the state. Submission validates that the required fields are valid data and not blank, if true, these fields are sent to the backend.

The backend accepts a JSON request and decides, based on the data provided, how it should read the database. If the optional fields are not there it queries the database only on the fields provided, if the optional fields are provided it the query includes the optional filters. The backend also looks at the trip type, if its either one way or round trip, to know if it should provide return flight options to the front end. The data is then serialized and sent to the front end as a JSON response.

The front end then parses the data, sends it to a service to be persisted to the results page, then displays the data returned. If the requests trip type is persisted to the results page as well so that if it’s a round trip the departing flights and return flights tables are displayed, otherwise it displays just the departing flights table.