# Week 11 Contribution - Tanmay Munigala – 12742995

## ETL Pipeline Data flow

The main motivation of this document is to visualise the flow of data in our travel application used to make recommendations for users, all the way from data source to the destination.

Main types of data:

1. Hotels

2. Flights

3. Places

4. Weather

All the above-mentioned data will be extracted using third-party APIs, then transformed and stored into application’s central database, which will be used to present information to the user through the client frontend.

The logic to pull data and transform the data will be in the application’s central backend, which will call all the third-party APIs and then transform the data to the required format before upserting it into the team’s database.

This endpoint will then be called on a scheduled basis, most likely once a day so that all the data in the database is updated.

Since we are using all third party services on their free tier, we have a set number of requests we can make for their data, therefore the team has decided to set up a mock api which will be used to mock the behaviour of these providers.

Diagram, schematic

Description automatically generated