File enlists missing steps and flow of entire case study.

End to end Application would look something like following:

An application using MVC will be created. This will allow user to upload file. Which will be then sent to service, service will read this file, which includes CityId and city name, service will fetch data for all cities and then send back list of data to UI Application. This list of data then will be sorted based on city id, and that data will be stored in designated folder in txt file. Each file will be named as “CityName\_Date.txt”, so that historic data for each city will be maintained.

Following is the flow of this case study.

1. UI Creation, for uploading file. UI would be created using MVC, using HtmlBegin form, and File type of input page will be created where user will upload the file to be send to service.
2. File will be converted to file steam and service will be called, file steam will be input of that service.
3. Service then will convert this steam to file, read the data from the file, data will be in CityId=Cityname format.
4. Using CityId, API KEY, service will call OpenWeatherAPI and fetch the data in JSON format.
5. This format is then converted to DataModel.
6. List of DataModel will be created in service, which will be returned to UI Application.
7. UI Application then will create single text file, for each object in List, this will be based on City.
8. Each city will get new file with timestamp added in name so as to maintain historic data.
9. For the city, where there is no data found, will be listed down in different file, so as to make user aware about cities for which data was not found.