JB Hi-Fi Node.js programming challenge

Develop and **test** a HTTP REST API in Node.js that fronts the **OpenWeatherMap** service:

OpenWeatherMap name service guide: **http://openweathermap.org/current#name** .

(Example: http://samples.openweathermap.org/data/2.5/weather?q=London,uk)

Your service should:

1. Enforce **API Key** scheme. An API Key is **rate limited** to 5 weather reports an hour. After that your service should respond in a way which communicates that the hourly limit has been exceeded. Create 5 API Keys. Pick a convention for handling them that you like; using simple string constants is fine. This is NOT an exercise about generating and distributing API Keys. Assume that the user of your service knows about them.

2. Have a **URL** that accepts both a **city name** and **country name**. Based upon these inputs, and the API Key, your service should decide whether or not to call the OpenWeatherMap name service. If it does, the only weather data you need to return to the client is the **description** field from the weather JSON result. Whether it does or does not, it should respond appropriately to the client.

3. Reject requests with invalid input or missing API Keys.

Your solution should:

1. Hold a **git repository** and a **README** explaining how to build/run/**test**.

2. Be tarred and gzipped up then sent back to us as <firstname>-<lastname>.tar.gz.