Mobile API (<https://github.com/mohammed-kanchwala/Mobile-API>)

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# Overview

## Project Background and Description

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|  | Project includes an API to serve clients e.g. (Mobile, Web, Postman) to retrieve list of Mobile Handset based on the search conditions which are passed as input parameters given in the request URL. |

## Project Scope

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|  | Delivering list of Mobiles based on the Mobile Json fetch from a rest end-point.  Does not add or update Database or effect the rest endpoint providing the Mobile list in any way. |

## High-Level Requirements

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|  | API which would give result based on the search conditions passed in the request URL. And returns list of all mobiles if no condition is passed.  Note: Rest API will be accessed on startup of the application to fetch the List of Mobile Handset and will service the requests based on the fetch data. |

## Logic

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|  | 1. API will fetch all the search parameters passed as an input in the request URL. 2. Json fetched from the rest endpoint will be traversed to find if the key mentioned in the request matches the key present in json (keys are not case sensitive) 3. If the key is present and the value is equals in case of integer of if the value is present in the json in the json, then the traversed Mobile will be added to another Array of Json object. 4. The new Array will be traversed as mentioned in step 3. Until we have a list Mobiles which meet all the criteria mentioned in the search. 5. The final Json Array object is then converted to appropriate format and send to the client. 6. If the final List is empty, which implies that none of the mobile matches the condition provided. So the service will return an error mentioning Mobile Not Found for the given search criteria. |