**Extraction of Introductory information from Wikipedia using Java**

**Requirement**:

To print introductory information of Wikipedia page, given the valid input using command line or through user input or else printing “Not found” and gracefully exiting the program if the input is invalid.

**Design considerations:**

This application is designed based on processing of HTTP GET request and response. Every HTTP request will return a response code, for valid GET requests it is 200, any number returned back from the response turns out to be invalid URL, this condition is checked in the application as a criterion for invalid URL. Also topics in Wikipedia are case sensitive except for the first character, so input is expected to be given in case sensitive format or else the output is “Not found”. Any number of space present in the input is replaced by an underscore.

**Implementation:**

This application makes use of Java as the primary programming language. The input is taken from command line or read from the prompt, converted into the “GET” request, if the request URL is valid, the request is processed and response is returned back to the application, this response is read in JSON format and parsed to get the final output.

**Libraries used:**

We have made use of HTTPURLConnection to get a HTTP connection by passing an URL. We also have used BufferedReader library to read HTTP response into a String. Lastly we have used Simple JSON Parser provided by Google to parse the incoming response.

**Running the application from the command line giving the arguments**

javac Jaroop.java  
java Jaroop “<input>”

We can also run the application from the command line by providing input during runtime, when run with empty command line arguments, the application prompts for an input.

**Output**

If the URL is valid, introductory information present in Wikipedia with respect to the input is printed on the console or else “Not found” is printed and program is exited.