

API Specification:

Execution APIs:

■Return_existing_arguments:

- Argument: algo_name
- Return: no_of_compulsory_args, no_of_optional_args, name_of_all_args
{
 "no_of_compulsory_args":2
 "no_of_optional_args":3
 "comp_arg_1":input_dir_path(inp-dir)
 "comp_arg_2":no_of_combiners(w)
 "opt_arg_1":no_of_reducers(r)
 "opt_arg_2":no_of_mapper(m)
 "opt_arg_3":no_of_secondary_namenode(ns)
}
- URL: [http://server/analytics/execute/return_args?
algo_name=algo_name_value](http://server/analytics/execute/return_args?algo_name=algo_name_value)

■Execute_existing:

- Argument: algo_name, <comp_arg_1>,....<comp_arg_n>,
 <comp_arg_1_val>,....<comp_arg_n_val>,
 <opt_arg_1>,....<opt_arg_n>,
 <opt_arg_1_val>,....<opt_arg_n_val>
- Return: output_filename, output_filelocation
{
 "output_filename":<outputfilename_value>
 "output_filelocation":<output_filelocation_path:>
}
- URL: [http://server/analytics/execute/algo?
algo_name=algoname_value&input-
dir=/home/user/Down/&w=3&r=2](http://server/analytics/execute/algo?algo_name=algoname_value&input-dir=/home/user/Down/&w=3&r=2)

Addition APIs

■Add_new_framework

- Argument: framework_name, compressed_file_path, install_script
- Return: (+ if successfully installed, 0 if failed)
{
 "framework":1
}
- URL: [http://server/analytics/add/framework?
framework_name=framework_name_value&compressed_file=compr
essed_file_path&install_script=install_script_path](http://server/analytics/add/framework?framework_name=framework_name_value&compressed_file=compressed_file_path&install_script=install_script_path)

■Add_new_algorithm

- Argument: framework_name, algorithm_name, algorithm_file,
 no_of_algorithm_comp_args, no_of_algorithm_opt_args,
 <comp_arg_1>,....<comp_arg_n>, <opt_arg_1>,....<opt_arg_n>
- Return: (+ if successfully installed, 0 if failed)
{
 "framework":1
}

}

- URL: [http://server/analytics/add/algorithm_name_value&algorithm_file_path&no_of_algorithm_comp_args=2&no_of_algorithm_opt_args=1&comp_arg_1_name=input_dir_path\(input_dir\)&comp_arg_2_name=no_of_combiners\(w\)&opt_arg_1_name=no_of_reducers\(r\)](http://server/analytics/add/algorithm_name_value&algorithm_file_path&no_of_algorithm_comp_args=2&no_of_algorithm_opt_args=1&comp_arg_1_name=input_dir_path(input_dir)&comp_arg_2_name=no_of_combiners(w)&opt_arg_1_name=no_of_reducers(r))