**Project Title : List files and directories information**

# Software Design Document

Revision: 0

Change History

| **Date** | **Author** | **Revision** | **Change Reference** |
| --- | --- | --- | --- |
| 18-May-2020 | Nagaraju Bomma | 0 | Initial version |
|  |  | 1.0 |  |

### INTRODUCTION

## Purpose

The purpose of this project is to write a service(s) which returns the information about files in Directories by searching the entire directory tree under the given file/folder path

## Scope

The services are available as standalone and as web web-based application.

## Overview

The service should provide methods:

* Standalone Method 1: A recursive function which reads a full path to a directory as a parameter, returns JSON that contains details of the full path, size and a flag to indicate if the entry is a file or a directory. (If "file": true it’s a file else directory) and this is a
* Standalone Method 2: Given a full path to a file as a parameter, return an JSON that contains list of File Properties/ attributes (e.g. file path, size, read, write, execute, hidden etc.)
* Web web-based application which exposes the above 2 services as REST APIs and renders result. These services can be called directly from a browser using SwaggerConfig : http://localhost:8080/swagger-ui.html

## Software Prerequisites

Java 8, Maven, Spring Boot, Swagger

### APPENDICES

*TBD*