**Problem statement:**

Design backend application for an Employee Management with different end-points (method as GET, POST, PUT and DELETE) using RESTful web services.

Implement unit testing to test all layers of the application with code coverage of 90%.

**Functionalities and REST API details:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Functionality** | **Remarks** | **Request** | **Response** |
| Get Employee by ID | Get employee details by EmpId using GET method | HTTP GET | **Success**   * 200 – OK * Output: Employee response JSON data   **Failure**   * 400 – Bad Request (in case of bad input request) * 404 – Not Found (in case of employee id not found) * 500 – Internal Server (in case of server/system errors) |
| Get Employees details | Get list of employee using GET method | HTTP GET | **Success**   * 200 – OK Output: Employee collection response JSON   **Failure**   * 400 – Bad Request (in case of bad input request) * 500 – Internal Server (in case of server/system errors) |
| Add new employee details | Add new employee details | HTTP POST | **Success**   * 201 – Created Output: Success message   **Failure**   * 400 – Bad Request (in case of bad input request) * 500 – Internal Server (in case of server/system errors) |
| Delete employee record | Delete employee record based on given employee id | HTTP DELETE | **Success**   * 204 – No Content * Output: Confirmation message   **Failure**   * 400 – Bad Request (in case of bad input request) * 404 – Not Found (in case of employee id not found) * 500 – Internal Server (in case of server/system errors) |

**Project Submission Procedure:**

* Submit a zip file which consists of following documents:
  + Solution folders
  + Screen capture of end to end testing using SOAP UI/Postman tools
  + Screen capture of code coverage
  + Screen capture of unit testing