**Task#: 48**

**Course**: Web Development

**Topics**: RESTful APIs / Web Services

**Level**: Advance Level

A web service is a collection of open protocols and standards used for exchanging data between applications or systems. Software applications written in various programming languages and running on various platforms can use web services to exchange data over computer networks like the Internet in a manner similar to inter-process communication on a single computer. Most of the today’s world application are running following platforms

* Android OS – Samsung and other Smart Phones
* iOS – Apple Devices
* macOS – Apple MacBook
* Micro-Webservices – Web Projects connected with Databases residing on Cloud.

There are two main popular protocols currently on which web services are running or implemented. These are:

1. REST
2. SOAP

You can learn the difference between these two techniques but for this course we shall take note and build REST APIs in Laravel

**Task Requirements**

We will create a simple Create / Edit / Delete Tasks in this application. The application has no front-end we will only create REST APIs and run them in Postman. A task has following attributes

1. Name
2. Description
3. Assignee (Person who is going to work on task)
4. Reporter (Person who has created this task)
5. Estimated Time (Time to complete this task)

**REST APIs**

1. Add Task
2. Delete Task
3. Update Task
4. Get All Tasks

**Useful Resources for Learning Laravel**

1. <https://www.techiediaries.com/laravel-tutorial-rest-crud-api-models-relationships/>
2. <https://www.toptal.com/laravel/restful-laravel-api-tutorial>
3. <https://learning.getpostman.com/getting-started/>

**Best of Luck**